

The logo for devart, consisting of the word "devart" in white lowercase letters on a blue square background.

# DEMO-MSSQL\SQLEXPRESS02

Documentation for the AdventureWorks2022 database.

# Servers

## Servers 1

 DEMO-MSSQLSQLEXPRESS02

# DEMO-MSSQL\SQLEXPRESS02

## Databases 1



## Properties

Name	Value
Product	Microsoft SQL Server
Version Level	RTM
Edition	Express Edition (64-bit)
Version	16.0.1050.5
Language	English (United States)
Collation	SQL_Latin1_General_CP1_CI_AS
Platform	NT x64
OS Version	6.3 (22621)
Processors	16
Physical Memory (Mb)	32694
Clustered	<b>False</b>
Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL

## Settings

Name	Value
Default data file path	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL\DATA\
Default log file path	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL\DATA\
Default backup file path	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL\Backup
Recovery Interval (minutes)	0
Default index fill factor (%)	0
Default backup media retention (days)	0
Nested triggers enabled	<b>True</b>
Allow triggers to fire others	<b>True</b>
Default language	us_english
Default fulltext language	us_english
Default fulltext language LCID	1033
Network packet size	4096
Two digit year cutoff	2049
Max text replication size (bytes)	65536
Locks	0

Blocked process threshold	0
Cursor threshold	-1
Cost threshold for parallelism	5
Scans and runs startup procedures	<b>False</b>
Transform noise words	<b>False</b>
Filestream access level	Disabled
Optimize for 'ad hoc' workloads	<b>False</b>
Remote login timeout (sec)	10

## User databases

### User databases 1

 AdventureWorks2022

# AdventureWorks2022











## Description

Documentation for the AdventureWorks2022 database.

## Properties

Name	Value
SQL Server version	Microsoft SQL Server RTM 16.0.1050.5
Compatibility level	
Last backup time	23-May-23 11:56:14
Last backup time of transaction log	N/A
Default index fill factor (%)	0
Creation date	14-Sep-23 11:20:23
Number of Users	4
Database Encryption Enabled	<b>False</b>
Database Encryption Algorithm	N/A
Database status	ONLINE
Max size	0 B
Database size (Mb)	272
Unallocated data space (Mb)	1.56
Default language	N/A
Default fulltext language	us_english

## Object Types 10

-  Tables
-  Views
-  Stored Procedures
-  Table-Valued Functions
-  Scalar-Valued Functions
-  Database Triggers
-  User-Defined Data Types
-  XML Schema Collections
-  Database Roles
-  Schemas

## Options

Name	Value
Database collation	SQL_Latin1_General_CP1_CI_AS
Restrict access	MULTI_USER
Cleanly shutdown	<b>False</b>
Supplemental logging enabled	<b>False</b>

Is Read-Only	False
Auto close	False
Auto shrink	False
Database is read-only for restore log	False
Is Snapshot	False
Snapshot isolation state	False
Read committed snapshot on	True
Recovery model	SIMPLE
Page verify option	Checksum
Auto create statistics	True
Auto update statistics	True
Auto update statistics asynchronously	False
ANSI NULL default	False
ANSI NULL enabled	True
ANSI padding enabled	True
ANSI warnings enabled	True
Arithmetic abort enabled	True
Concatenating NULL yields NULL	True
Numeric roundabort enabled	False
Quoted Identifier ON	True
Recursive triggers enabled	False
Close cursors on commit	False
Local cursor by default	False
Fulltext enabled	True
Trustworthy	False
Database chaining	False
Forced parameterization	False
Master key encrypted by server	False
Published	False
Merge published	False
Is distribution database	False
Sync with backup	False
Service broker GUID	104bd1e5-5729-481c-818b-04c0e3216e68
Service broker enabled	False
Log reuse wait	Nothing
Date correlation	False
Change data capture enabled	False
Honor broker priority	False

Database owner	sa
Delayed durability	Disabled
Containment type	<b>False</b>

## Database Files 2

Name	Type	Size	Max size	Autogrowth	File Name
AdventureWorks2022	Rows	204,800 KB	N/A	65,536 KB	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL\DATA\AdventureWorks2022.mdf
AdventureWorks2022_log	Log	73,728 KB	2,147,483,648 KB	65,536 KB	C:\Program Files\Microsoft SQL Server\MSSQL16.SQLEXPRESS02\MSSQL\DATA\AdventureWorks2022_log.ldf



 TablesObjects 72

Name	Description
dbo.AWBuildVersion	
dbo.DatabaseLog	
dbo.ErrorLog	
dbo.MySampleTable	
HumanResources.Department	
HumanResources.Employee	
HumanResources.EmployeeDepartmentHistory	
HumanResources.EmployeePayHistory	
HumanResources.JobCandidate	
HumanResources.Shift	
Person.Address	
Person.AddressType	
Person.BusinessEntity	
Person.BusinessEntityAddress	
Person.BusinessEntityContact	
Person.ContactType	
Person.CountryRegion	
Person.EmailAddress	
Person.Password	
Person.Person	
Person.PersonPhone	
Person.PhoneNumberType	
Person.StateProvince	
Production.BillOfMaterials	
Production.Culture	
Production.Document	
Production.Illustration	
Production.Location	
Production.Product	
Production.ProductCategory	
Production.ProductCostHistory	
Production.ProductDescription	

Production.ProductDocument	
Production.ProductInventory	
Production.ProductListPriceHistory	
Production.ProductModel	
Production.ProductModelIllustration	
Production.ProductModelProductDescriptionCulture	
Production.ProductPhoto	
Production.ProductProductPhoto	
Production.ProductReview	
Production.ProductSubcategory	
Production.ScrapReason	
Production.TransactionHistory	
Production.TransactionHistoryArchive	
Production.UnitMeasure	
Production.WorkOrder	
Production.WorkOrderRouting	
Purchasing.ProductVendor	
Purchasing.PurchaseOrderDetail	
Purchasing.PurchaseOrderHeader	
Purchasing.ShipMethod	
Purchasing.Vendor	
Sales.CountryRegionCurrency	
Sales.CreditCard	
Sales.Currency	
Sales.CurrencyRate	
Sales.Customer	
Sales.PersonCreditCard	
Sales.SalesOrderDetail	
Sales.SalesOrderHeader	
Sales.SalesOrderHeaderSalesReason	
Sales.SalesPerson	
Sales.SalesPersonQuotaHistory	
Sales.SalesReason	
Sales.SalesTaxRate	
Sales.SalesTerritory	
Sales.SalesTerritoryHistory	
Sales.ShoppingCartItem	
Sales.SpecialOffer	

Sales.SpecialOfferProduct	
Sales.Store	


# dbo.AWBuildVersion

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	1
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:32

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SystemInformationID	tinyint	1	3	0	True	1 - 1			False	False	
	Database Version	nvarchar	25	0	0	True				False	False	
	VersionDate	datetime	8	23	3	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_AWBuildVersion_SystemInformationID	SystemInformationID	True		

## SQL Script

```
CREATE TABLE dbo.AWBuildVersion (
    SystemInformationID tinyint IDENTITY,
```

```
[Database Version] nvarchar(25) NOT NULL,  
VersionDate datetime NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_AWBuildVersion_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_AWBuildVersion_SystemInformationID PRIMARY KEY CLUSTERED (SystemInformationID)  
)  
ON [PRIMARY]  
GO
```

## Depends On 1

 AdventureWorks2022

## Used By

No items found

# dbo.DatabaseLog

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	True
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	1596
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:33

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
🔑	DatabaseLogID	int	4	10	0	True	1 - 1			False	False	
	PostTime	datetime	8	23	3	True				False	False	
	DatabaseUser	sysname	128	0	0	True				False	False	
	Event	sysname	128	0	0	True				False	False	
	Schema	sysname	128	0	0	False				False	False	
	Object	sysname	128	0	0	False				False	False	
	TSQL	nvarchar		0	0	True				False	False	
	XmlEvent	xml		0	0	True				False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
🔑	PK_DatabaseLog_DatabaseLogID	DatabaseLogID	True		

## SQL Script

```
CREATE TABLE dbo.DatabaseLog (  
    DatabaseLogID int IDENTITY,  
    PostTime datetime NOT NULL,  
    DatabaseUser sysname NOT NULL,  
    Event sysname NOT NULL,  
    [Schema] sysname NULL,  
    Object sysname NULL,  
    TSQL nvarchar(max) NOT NULL,  
    XmlEvent xml NOT NULL,  
    CONSTRAINT PK_DatabaseLog_DatabaseLogID PRIMARY KEY NONCLUSTERED (DatabaseLogID)  
)  
ON [PRIMARY]  
TEXTIMAGE_ON [PRIMARY]  
GO
```

## Depends On 1

 AdventureWorks2022

## Used By

No items found


# dbo.ErrorLog

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	0
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:29

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ErrorLogID	int	4	10	0	True	1 - 1			False	False	
	ErrorTime	datetime	8	23	3	True			(getdate())	False	False	
	UserName	sysname	128	0	0	True				False	False	
	ErrorNumber	int	4	10	0	True				False	False	
	ErrorSeverity	int	4	10	0	False				False	False	
	ErrorState	int	4	10	0	False				False	False	
	ErrorProcedure	nvarchar	126	0	0	False				False	False	
	ErrorLine	int	4	10	0	False				False	False	
	ErrorMessage	nvarchar	4000	0	0	True				False	False	

## Indexes



Key	Name	Columns	Unique	Type	Description
	PK_ErrorLog_ErrorLogID	ErrorLogID	True		

## SQL Script

```
CREATE TABLE dbo.ErrorLog (  
    ErrorLogID int IDENTITY,  
    ErrorTime datetime NOT NULL CONSTRAINT DF_ErrorLog_ErrorTime DEFAULT (getdate()),  
    UserName sysname NOT NULL,  
    ErrorNumber int NOT NULL,  
    ErrorSeverity int NULL,  
    ErrorState int NULL,  
    ErrorProcedure nvarchar(126) NULL,  
    ErrorLine int NULL,  
    ErrorMessage nvarchar(4000) NOT NULL,  
    CONSTRAINT PK_ErrorLog_ErrorLogID PRIMARY KEY CLUSTERED (ErrorLogID)  
)  
ON [PRIMARY]  
GO
```

## Depends On <sup>1</sup>

 AdventureWorks2022

## Used By <sup>1</sup>

 dbo.uspLogError


# dbo.MySampleTable

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	2
Created	25-Sep-23 17:08:20
Last Modified	25-Sep-23 17:08:20

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ID	int	4	10	0	True				False	False	
	Name	nvarchar	255	0	0	False				False	False	
	Age	int	4	10	0	False				False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK__MySample__3214EC2736687221	ID	True		

## SQL Script

```
CREATE TABLE dbo.MySampleTable (  
  ID int NOT NULL,  
  Name nvarchar(255) NULL,  
  Age int NULL,  
);
```

PRIMARY KEY CLUSTERED (ID)

)

ON [PRIMARY]

GO

## Depends On <sup>1</sup>

 AdventureWorks2022

## Used By

No items found



# HumanResources.Department

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	16
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	DepartmentID	smallint	2	5	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	GroupName	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes




Key	Name	Columns	Unique	Type	Description
	AK_Department_Name	Name	True		
	PK_Department_DepartmentID	DepartmentID	True		

## SQL Script

---

```
CREATE TABLE HumanResources.Department (  
    DepartmentID smallint IDENTITY,  
    Name dbo.Name NOT NULL,  
    GroupName dbo.Name NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Department_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_Department_DepartmentID PRIMARY KEY CLUSTERED (DepartmentID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Department_Name  
    ON HumanResources.Department (Name)  
    ON [PRIMARY]  
GO
```

## Depends On <sup>3</sup>

-  HumanResources
-  dbo.Name
-  AdventureWorks2022

## Used By <sup>4</sup>

-  HumanResources.EmployeeDepartmentHistory
-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory
-  dbo.TestFUNC\_ENC









# HumanResources.Employee

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	290
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	NationalIDNumber	nvarchar	15	0	0	True				False	False	
	LoginID	nvarchar	256	0	0	True				False	False	
	OrganizationNode	hierarchyid	892	0	0	False				False	False	
	OrganizationLevel	smallint	2	5	0	False				True	False	
	JobTitle	nvarchar	50	0	0	True				False	False	
	BirthDate	date	3	10	0	True				False	False	
	MaritalStatus	nchar	1	0	0	True				False	False	
	Gender	nchar	1	0	0	True				False	False	

[E]	HireDate	date	3	10	0	True				False	False	
	SalariedFlag	dbo.Flag	1	1	0	True		(1)		False	False	
[E]	VacationHours	smallint	2	5	0	True		(0)		False	False	
[E]	SickLeaveHours	smallint	2	5	0	True		(0)		False	False	
	CurrentFlag	dbo.Flag	1	1	0	True		(1)		False	False	
[E]	rowguid	uniqueidentifier	16	0	0	True		(newid())		False	False	
	ModifiedDate	datetime	8	23	3	True		(getdate())		False	False	

## Computed Columns

Name	Definition
OrganizationLevel	(([OrganizationNode].[GetLevel]()))

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Employee_LoginID	LoginID	True		
	AK_Employee_NationalIDNumber	NationalIDNumber	True		
	AK_Employee_rowguid	rowguid	True		
	IX_Employee_OrganizationLevel_OrganizationNode	OrganizationLevel, OrganizationNode	False		
	IX_Employee_OrganizationNode	OrganizationNode	False		
[K]	PK_Employee_BusinessEntityID	BusinessEntityID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
dEmployee	True	True	INSTEAD OF DELETE	True	

## Check Constraints

Name	Columns	Condition	Description
CK_Employee_BirthDate	BirthDate	(([BirthDate]>='1930-01-01' AND [BirthDate] <=dateadd(year,-18,getdate()))	
CK_Employee_Gender	Gender	(upper([Gender])='F' OR upper([Gender])='M')	
CK_Employee_HireDate	HireDate	(([HireDate]>='1996-07-01' AND [HireDate] <=dateadd(day,(1),getdate()))	
CK_Employee_MaritalStatus	MaritalStatus	(upper([MaritalStatus])='S' OR upper([MaritalStatus])='M')	
CK_Employee_SickLeaveHours	SickLeaveHours	(([SickLeaveHours]>=(0) AND [SickLeaveHours]<=(120))	
CK_Employee_VacationHours	VacationHours	(([VacationHours]>=(-40) AND [VacationHours]<=(240))	

## Foreign Keys

Name	Columns	Description
------	---------	-------------

## SQL Script

```

CREATE TABLE HumanResources.Employee (
    BusinessEntityID int NOT NULL,
    NationalIDNumber nvarchar(15) NOT NULL,
    LoginID nvarchar(256) NOT NULL,
    OrganizationNode hierarchyid NULL,
    OrganizationLevel AS ([OrganizationNode].[GetLevel]()),
    JobTitle nvarchar(50) NOT NULL,
    BirthDate date NOT NULL,
    MaritalStatus nchar(1) NOT NULL,
    Gender nchar(1) NOT NULL,
    HireDate date NOT NULL,
    SalariedFlag dbo.Flag NOT NULL CONSTRAINT DF_Employee_SalariedFlag DEFAULT (1),
    VacationHours smallint NOT NULL CONSTRAINT DF_Employee_VacationHours DEFAULT (0),
    SickLeaveHours smallint NOT NULL CONSTRAINT DF_Employee_SickLeaveHours DEFAULT (0),
    CurrentFlag dbo.Flag NOT NULL CONSTRAINT DF_Employee_CurrentFlag DEFAULT (1),
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Employee_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Employee_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_Employee_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID),
    CONSTRAINT CK_Employee_BirthDate CHECK ([BirthDate]>='1930-01-01' AND [BirthDate]<=dateadd(year,-18,getdate())),
    CONSTRAINT CK_Employee_Gender CHECK (upper([Gender])='F' OR upper([Gender])='M'),
    CONSTRAINT CK_Employee_HireDate CHECK ([HireDate]>='1996-07-01' AND [HireDate]<=dateadd(day,1,getdate())),
    CONSTRAINT CK_Employee_MaritalStatus CHECK (upper([MaritalStatus])='S' OR upper([MaritalStatus])='M'),
    CONSTRAINT CK_Employee_SickLeaveHours CHECK ([SickLeaveHours]>=(0) AND [SickLeaveHours]<=(120)),
    CONSTRAINT CK_Employee_VacationHours CHECK ([VacationHours]>=(-40) AND [VacationHours]<=(240))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Employee_LoginID
    ON HumanResources.Employee (LoginID)
    ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Employee_NationalIDNumber
    ON HumanResources.Employee (NationalIDNumber)
    ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Employee_rowguid
    ON HumanResources.Employee (rowguid)
    ON [PRIMARY]
GO

CREATE INDEX IX_Employee_OrganizationLevel_OrganizationNode
    ON HumanResources.Employee (OrganizationLevel, OrganizationNode)
    ON [PRIMARY]
GO

CREATE INDEX IX_Employee_OrganizationNode
    ON HumanResources.Employee (OrganizationNode)
    ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER HumanResources.dEmployee ON HumanResources.Employee
INSTEAD OF DELETE NOT FOR REPLICATION AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;

    BEGIN
        RAISERROR
            (N'Employees cannot be deleted. They can only be marked as not current.', -- Message
            10, -- Severity.
            1); -- State.

        -- Rollback any active or uncommittable transactions

```







```

IF @@TRANCOUNT > 0
BEGIN
    ROLLBACK TRANSACTION;
END
END;
GO


















ALTER TABLE HumanResources.Employee
ADD CONSTRAINT FK_Employee_Person_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.Person (
BusinessEntityID)
GO

```

## Depends On 4

-  HumanResources
-  Person.Person
-  dbo.Flag
-  AdventureWorks2022

## Used By 17

-  HumanResources.EmployeeDepartmentHistory
-  HumanResources.EmployeePayHistory
-  HumanResources.JobCandidate
-  Production.Document
-  Purchasing.PurchaseOrderHeader
-  Sales.SalesPerson
-  HumanResources.vEmployee
-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears
-  HumanResources.uspUpdateEmployeeHireInfo
-  HumanResources.uspUpdateEmployeeLogin
-  HumanResources.uspUpdateEmployeePersonalInfo
-  dbo.uspGetEmployeeManagers
-  dbo.uspGetManagerEmployees
-  dbo.ufnGetContactInformation
















# HumanResources.EmployeeDepartmentHistory

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	296
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	BusinessEntityID	int	4	10	0	True				False	False	
   	DepartmentID	smallint	2	5	0	True				False	False	
   	ShiftID	tinyint	1	3	0	True				False	False	
  	StartDate	date	3	10	0	True				False	False	
	EndDate	date	3	10	0	False				False	False	

	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	
--	--------------	----------	---	----	---	------	--	--	-------------	-------	-------	--

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_EmployeeDepartmentHistory_DepartmentID	DepartmentID	False		
	IX_EmployeeDepartmentHistory_ShiftID	ShiftID	False		
	PK_EmployeeDepartmentHistory_BusinessEntityID_StartDate_DepartmentID	BusinessEntityID, StartDate, DepartmentID, ShiftID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_EmployeeDepartmentHistory_EndDate	EndDate, StartDate	([EndDate]>=[StartDate] OR [EndDate] IS NULL)	

## Foreign Keys

Name	Columns	Description
FK_EmployeeDepartmentHistory_Department_DepartmentID	DepartmentID	
FK_EmployeeDepartmentHistory_Employee_BusinessEntityID	BusinessEntityID	
FK_EmployeeDepartmentHistory_Shift_ShiftID	ShiftID	

## SQL Script

```

CREATE TABLE HumanResources.EmployeeDepartmentHistory (
    BusinessEntityID int NOT NULL,
    DepartmentID smallint NOT NULL,
    ShiftID tinyint NOT NULL,
    StartDate date NOT NULL,
    EndDate date NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_EmployeeDepartmentHistory_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_EmployeeDepartmentHistory_BusinessEntityID_StartDate_DepartmentID PRIMARY KEY CLUSTERED (
        BusinessEntityID, StartDate, DepartmentID, ShiftID),
    CONSTRAINT CK_EmployeeDepartmentHistory_EndDate CHECK ([EndDate]>=[StartDate] OR [EndDate] IS NULL)
)
ON [PRIMARY]
GO

CREATE INDEX IX_EmployeeDepartmentHistory_DepartmentID
ON HumanResources.EmployeeDepartmentHistory (DepartmentID)
ON [PRIMARY]
GO

CREATE INDEX IX_EmployeeDepartmentHistory_ShiftID
ON HumanResources.EmployeeDepartmentHistory (ShiftID)
ON [PRIMARY]
GO






ALTER TABLE HumanResources.EmployeeDepartmentHistory
ADD CONSTRAINT FK_EmployeeDepartmentHistory_Department_DepartmentID FOREIGN KEY (DepartmentID) REFERENCES
HumanResources.Department (DepartmentID)
GO

ALTER TABLE HumanResources.EmployeeDepartmentHistory
ADD CONSTRAINT FK_EmployeeDepartmentHistory_Employee_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES
HumanResources.Employee (BusinessEntityID)
GO



ALTER TABLE HumanResources.EmployeeDepartmentHistory
ADD CONSTRAINT FK_EmployeeDepartmentHistory_Shift_ShiftID FOREIGN KEY (ShiftID) REFERENCES HumanResources.Shift (
ShiftID)
GO

```

## Depends On <sup>5</sup>

-  HumanResources
-  HumanResources.Department
-  HumanResources.Employee
-  HumanResources.Shift
-  AdventureWorks2022

## Used By <sup>2</sup>

-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory





# HumanResources.EmployeePayHistory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	316
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	RateChangeDate	datetime	8	23	3	True				False	False	
	Rate	money	8	19	4	True				False	False	
	PayFrequency	tinyint	1	3	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_EmployeePayHistory_BusinessEntityID_RateChangeDate	BusinessEntityID, RateChangeDate	True		

## Check Constraints

Name	Columns	Condition	Description
CK_EmployeePayHistory_PayFrequency	PayFrequency	([PayFrequency]=2) OR [PayFrequency]=1	
CK_EmployeePayHistory_Rate	Rate	([Rate]>=6.50) AND [Rate]<=200.00	




## Foreign Keys

Name	Columns	Description
FK_EmployeePayHistory_Employee_BusinessEntityID	BusinessEntityID	

## SQL Script

```
CREATE TABLE HumanResources.EmployeePayHistory (  
    BusinessEntityID int NOT NULL,  
    RateChangeDate datetime NOT NULL,  
    Rate money NOT NULL,  
    PayFrequency tinyint NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_EmployeePayHistory_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_EmployeePayHistory_BusinessEntityID_RateChangeDate PRIMARY KEY CLUSTERED (BusinessEntityID,  
    RateChangeDate),  
    CONSTRAINT CK_EmployeePayHistory_PayFrequency CHECK ([PayFrequency]=2) OR [PayFrequency]=1),  
    CONSTRAINT CK_EmployeePayHistory_Rate CHECK ([Rate]>=6.50) AND [Rate]<=200.00)  
)  
ON [PRIMARY]  
GO  
  
ALTER TABLE HumanResources.EmployeePayHistory  
    ADD CONSTRAINT FK_EmployeePayHistory_Employee_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES  
    HumanResources.Employee (BusinessEntityID)  
GO
```

## Depends On 3

-  [HumanResources](#)
-  [HumanResources.Employee](#)
-  [AdventureWorks2022](#)

## Used By 1

-  [HumanResources.uspUpdateEmployeeHireInfo](#)

# HumanResources.JobCandidate


## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	AW2016FullTextCatalog
Full Text	PK_JobCandidate_JobCandidateID
Compression	NONE
Row Count (~)	13
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_JobCandidate_BusinessEntityID	BusinessEntityID	False		
	PK_JobCandidate_JobCandidateID	JobCandidateID	True		

## Foreign Keys

Name	Columns	Description
FK_JobCandidate_Employee_BusinessEntityID	BusinessEntityID	

## SQL Script

```
CREATE TABLE HumanResources.JobCandidate (  
    JobCandidateID int IDENTITY,
```

```

BusinessEntityID int NULL,
Resume xml (CONTENT HumanResources.HRResumeSchemaCollection) NULL,
ModifiedDate datetime NOT NULL CONSTRAINT DF_JobCandidate_ModifiedDate DEFAULT (getdate()),
CONSTRAINT PK_JobCandidate_JobCandidateID PRIMARY KEY CLUSTERED (JobCandidateID)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO

CREATE INDEX IX_JobCandidate_BusinessEntityID
ON HumanResources.JobCandidate (BusinessEntityID)
ON [PRIMARY]
GO

ALTER TABLE HumanResources.JobCandidate
ADD CONSTRAINT FK_JobCandidate_Employee_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES HumanResources
.Employee (BusinessEntityID)
GO

CREATE FULLTEXT INDEX
ON HumanResources.JobCandidate(Resume LANGUAGE 1033)
KEY INDEX PK_JobCandidate_JobCandidateID
ON AW2016FullTextCatalog
WITH CHANGE_TRACKING AUTO, STOPLIST SYSTEM
GO

```

## Depends On <sup>4</sup>

-  HumanResources
-  HumanResources.Employee
-  HumanResources.HRResumeSchemaCollection
-  AdventureWorks2022

## Used By <sup>4</sup>

-  HumanResources.vJobCandidate
-  HumanResources.vJobCandidateEducation
-  HumanResources.vJobCandidateEmployment
-  dbo.uspSearchCandidateResumes







# HumanResources.Shift

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	3
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ShiftID	tinyint	1	3	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	StartTime	time	5	16	7	True				False	False	
	EndTime	time	5	16	7	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes




Key	Name	Columns	Unique	Type	Description
	AK_Shift_Name	Name	True		
	AK_Shift_StartTime_EndTime	StartTime, EndTime	True		

	PK_Shift_ShiftID	ShiftID	True		
--	------------------	---------	------	--	--



## SQL Script

```
CREATE TABLE HumanResources.Shift (  
  ShiftID tinyint IDENTITY,  
  Name dbo.Name NOT NULL,  
  StartTime time NOT NULL,  
  EndTime time NOT NULL,  
  ModifiedDate datetime NOT NULL CONSTRAINT DF_Shift_ModifiedDate DEFAULT (getdate()),  
  CONSTRAINT PK_Shift_ShiftID PRIMARY KEY CLUSTERED (ShiftID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Shift_Name  
  ON HumanResources.Shift (Name)  
  ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Shift_StartTime_EndTime  
  ON HumanResources.Shift (StartTime, EndTime)  
  ON [PRIMARY]  
GO
```

## Depends On <sup>3</sup>

-  HumanResources
-  dbo.Name
-  AdventureWorks2022

## Used By <sup>2</sup>

-  HumanResources.EmployeeDepartmentHistory
-  HumanResources.vEmployeeDepartmentHistory








# Person.Address

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19614
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	AddressID	int	4	10	0	True	1 - 1			False	False	
	AddressLine1	nvarchar	60	0	0	True				False	False	
	AddressLine2	nvarchar	60	0	0	False				False	False	
	City	nvarchar	30	0	0	True				False	False	
	StateProvinceID	int	4	10	0	True				False	False	
	PostalCode	nvarchar	15	0	0	True				False	False	
	SpatialLocation	geography		0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Address_rowguid	rowguid	True		
	IX_Address_AddressLine1_AddressLine2_City_StateProvinceID_PostalCode	AddressLine1, AddressLine2, City, StateProvinceID, PostalCode	True		
	IX_Address_StateProvinceID	StateProvinceID	False		
	PK_Address_AddressID	AddressID	True		

## Foreign Keys

Name	Columns	Description
FK_Address_StateProvince_StateProvinceID	StateProvinceID	

## SQL Script

```
CREATE TABLE Person.Address (
  AddressID int IDENTITY NOT FOR REPLICATION,
  AddressLine1 nvarchar(60) NOT NULL,
  AddressLine2 nvarchar(60) NULL,
  City nvarchar(30) NOT NULL,
  StateProvinceID int NOT NULL,
  PostalCode nvarchar(15) NOT NULL,
  SpatialLocation geography NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Address_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_Address_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_Address_AddressID PRIMARY KEY CLUSTERED (AddressID)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO




CREATE UNIQUE INDEX AK_Address_rowguid
ON Person.Address (rowguid)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX IX_Address_AddressLine1_AddressLine2_City_StateProvinceID_PostalCode
ON Person.Address (AddressLine1, AddressLine2, City, StateProvinceID, PostalCode)
ON [PRIMARY]
GO

CREATE INDEX IX_Address_StateProvinceID
ON Person.Address (StateProvinceID)
ON [PRIMARY]
GO






ALTER TABLE Person.Address
ADD CONSTRAINT FK_Address_StateProvince_StateProvinceID FOREIGN KEY (StateProvinceID) REFERENCES Person.
StateProvince (StateProvinceID)
GO
```

## Depends On 3

-  Person
-  Person.StateProvince
-  AdventureWorks2022

## Used By 7

-  Person.BusinessEntityAddress
-  Sales.SalesOrderHeader

-  HumanResources.vEmployee
-  Purchasing.vVendorWithAddresses
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithAddresses




# Person.AddressType

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	6
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	AddressTypeID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_AddressType_Name	Name	True		
	AK_AddressType_rowguid	rowguid	True		
	PK_AddressType_AddressTypeID	AddressTypeID	True		

## SQL Script

```
CREATE TABLE Person.AddressType (  
    AddressTypeID int IDENTITY,  
    Name dbo.Name NOT NULL,  
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_AddressType_rowguid DEFAULT (newid()) ROWGUIDCOL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_AddressType_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_AddressType_AddressTypeID PRIMARY KEY CLUSTERED (AddressTypeID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_AddressType_Name  
    ON Person.AddressType (Name)  
    ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_AddressType_rowguid  
    ON Person.AddressType (rowguid)  
    ON [PRIMARY]  
GO
```

## Depends On 3



Person



dbo.Name



AdventureWorks2022

## Used By 4



Person.BusinessEntityAddress



Purchasing.vVendorWithAddresses



Sales.vIndividualCustomer



Sales.vStoreWithAddresses



# Person.BusinessEntity

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	20777
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True	1 - 1			False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_BusinessEntity_rowguid	rowguid	True		
	PK_BusinessEntity_BusinessEntityID	BusinessEntityID	True		

## SQL Script

```
CREATE TABLE Person.BusinessEntity (
    BusinessEntityID int IDENTITY NOT FOR REPLICATION,
```



```
rowguid uniqueidentifier NOT NULL CONSTRAINT DF_BusinessEntity_rowguid DEFAULT (newid()) ROWGUIDCOL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_BusinessEntity_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_BusinessEntity_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_BusinessEntity_rowguid  
ON Person.BusinessEntity (rowguid)  
ON [PRIMARY]  
GO
```

## Depends On 1

 Person

## Used By 5

 Person.BusinessEntityAddress

 Person.BusinessEntityContact

 Person.Person

 Purchasing.Vendor

 Sales.Store













# Person.BusinessEntityAddress

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19614
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	BusinessEntityID	int	4	10	0	True				False	False	
   	AddressID	int	4	10	0	True				False	False	
   	AddressTypeID	int	4	10	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_BusinessEntityAddress_rowguid	rowguid	True		
	IX_BusinessEntityAddress_AddressID	AddressID	False		
	IX_BusinessEntityAddress_AddressTypeID	AddressTypeID	False		
	PK_BusinessEntityAddress_BusinessEntityID_AddressID_AddressTypeID	BusinessEntityID, AddressID, AddressTypeID	True		

## Foreign Keys

Name	Columns	Description
FK_BusinessEntityAddress_Address_AddressID	AddressID	
FK_BusinessEntityAddress_AddressType_AddressTypeID	AddressTypeID	
FK_BusinessEntityAddress_BusinessEntity_BusinessEntityID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Person.BusinessEntityAddress (
    BusinessEntityID int NOT NULL,
    AddressID int NOT NULL,
    AddressTypeID int NOT NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_BusinessEntityAddress_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_BusinessEntityAddress_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_BusinessEntityAddress_BusinessEntityID_AddressID_AddressTypeID PRIMARY KEY CLUSTERED (
        BusinessEntityID, AddressID, AddressTypeID)
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_BusinessEntityAddress_rowguid
ON Person.BusinessEntityAddress (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_BusinessEntityAddress_AddressID
ON Person.BusinessEntityAddress (AddressID)
ON [PRIMARY]
GO

CREATE INDEX IX_BusinessEntityAddress_AddressTypeID
ON Person.BusinessEntityAddress (AddressTypeID)
ON [PRIMARY]
GO

ALTER TABLE Person.BusinessEntityAddress
ADD CONSTRAINT FK_BusinessEntityAddress_Address_AddressID FOREIGN KEY (AddressID) REFERENCES Person.Address (
    AddressID)
GO

ALTER TABLE Person.BusinessEntityAddress
ADD CONSTRAINT FK_BusinessEntityAddress_AddressType_AddressTypeID FOREIGN KEY (AddressTypeID) REFERENCES Person.
    AddressType (AddressTypeID)
GO






ALTER TABLE Person.BusinessEntityAddress
ADD CONSTRAINT FK_BusinessEntityAddress_BusinessEntity_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES
    Person.BusinessEntity (BusinessEntityID)
GO

```

## Depends On 4

-  [Person](#)
-  [Person.Address](#)
-  [Person.AddressType](#)
-  [Person.BusinessEntity](#)

## Used By 5

-  [HumanResources.vEmployee](#)
-  [Purchasing.vVendorWithAddresses](#)
-  [Sales.vIndividualCustomer](#)
-  [Sales.vSalesPerson](#)
-  [Sales.vStoreWithAddresses](#)













# Person.BusinessEntityContact

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	909
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	BusinessEntityID	int	4	10	0	True				False	False	
   	PersonID	int	4	10	0	True				False	False	
   	ContactTypeID	int	4	10	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_BusinessEntityContact_rowguid	rowguid	True		
	IX_BusinessEntityContact_ContactTypeID	ContactTypeID	False		
	IX_BusinessEntityContact_PersonID	PersonID	False		
	PK_BusinessEntityContact_BusinessEntityID_PersonID_ContactTypeID	BusinessEntityID, PersonID, ContactTypeID	True		

## Foreign Keys

Name	Columns	Description
FK_BusinessEntityContact_BusinessEntity_BusinessEntityID	BusinessEntityID	
FK_BusinessEntityContact_ContactType_ContactTypeID	ContactTypeID	
FK_BusinessEntityContact_Person_PersonID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Person.BusinessEntityContact (
    BusinessEntityID int NOT NULL,
    PersonID int NOT NULL,
    ContactTypeID int NOT NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_BusinessEntityContact_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_BusinessEntityContact_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_BusinessEntityContact_BusinessEntityID_PersonID_ContactTypeID PRIMARY KEY CLUSTERED (
        BusinessEntityID, PersonID, ContactTypeID)
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_BusinessEntityContact_rowguid
    ON Person.BusinessEntityContact (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_BusinessEntityContact_ContactTypeID
    ON Person.BusinessEntityContact (ContactTypeID)
ON [PRIMARY]
GO

CREATE INDEX IX_BusinessEntityContact_PersonID
    ON Person.BusinessEntityContact (PersonID)
ON [PRIMARY]
GO





ALTER TABLE Person.BusinessEntityContact
    ADD CONSTRAINT FK_BusinessEntityContact_BusinessEntity_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES
    Person.BusinessEntity (BusinessEntityID)
GO

ALTER TABLE Person.BusinessEntityContact
    ADD CONSTRAINT FK_BusinessEntityContact_ContactType_ContactTypeID FOREIGN KEY (ContactTypeID) REFERENCES Person.
    ContactType (ContactTypeID)
GO




ALTER TABLE Person.BusinessEntityContact
    ADD CONSTRAINT FK_BusinessEntityContact_Person_PersonID FOREIGN KEY (PersonID) REFERENCES Person.Person (
    BusinessEntityID)
GO

```

## Depends On 4

-  Person
-  Person.BusinessEntity
-  Person.ContactType
-  Person.Person

## Used By 3

-  Purchasing.vVendorWithContacts
-  Sales.vStoreWithContacts
-  dbo.ufnGetContactInformation



# Person.ContactType

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	20
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ContactTypeID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ContactType_Name	Name	True		
	PK_ContactType_ContactTypeID	ContactTypeID	True		

## SQL Script

```
CREATE TABLE Person.ContactType (
  ContactTypeID int IDENTITY,
```



```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_ContactType_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_ContactType_ContactTypeID PRIMARY KEY CLUSTERED (ContactTypeID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_ContactType_Name  
ON Person.ContactType (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3

 Person

 dbo.Name

 AdventureWorks2022

## Used By 4

 Person.BusinessEntityContact

 Purchasing.vVendorWithContacts

 Sales.vStoreWithContacts

 dbo.ufnGetContactInformation



# Person.CountryRegion

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	238
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CountryRegionCode	nvarchar	3	0	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_CountryRegion_Name	Name	True		
	PK_CountryRegion_CountryRegionCode	CountryRegionCode	True		

## SQL Script

```
CREATE TABLE Person.CountryRegion (
    CountryRegionCode nvarchar(3) NOT NULL,
```

```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_CountryRegion_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_CountryRegion_CountryRegionCode PRIMARY KEY CLUSTERED (CountryRegionCode)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_CountryRegion_Name  
ON Person.CountryRegion (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3



Person



dbo.Name



AdventureWorks2022

## Used By 9



Person.StateProvince



Sales.CountryRegionCurrency



Sales.SalesTerritory



HumanResources.vEmployee



Person.vStateProvinceCountryRegion



Purchasing.vVendorWithAddresses



Sales.vIndividualCustomer



Sales.vSalesPerson



Sales.vStoreWithAddresses






# Person.EmailAddress

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19972
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	BusinessEntityID	int	4	10	0	True				False	False	
	EmailAddressID	int	4	10	0	True	1 - 1			False	False	
	EmailAddressID	int	4	10	0	True				False	False	
	EmailAddress	nvarchar	50	0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_EmailAddress_EmailAddress	EmailAddress	False		

	PK_EmailAddress_BusinessEntityID_EmailAddressID	BusinessEntityID, EmailAddressID	True		
--	---	-------------------------------------	------	--	--

## Foreign Keys

Name	Columns	Description
FK_EmailAddress_Person_BusinessEntityID	BusinessEntityID	

## SQL Script

```




CREATE TABLE Person.EmailAddress (
  BusinessEntityID int NOT NULL,
  EmailAddressID int IDENTITY,
  EmailAddress nvarchar(50) NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_EmailAddress_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_EmailAddress_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_EmailAddress_BusinessEntityID_EmailAddressID PRIMARY KEY CLUSTERED (BusinessEntityID,
  EmailAddressID)
)
ON [PRIMARY]
GO

CREATE INDEX IX_EmailAddress_EmailAddress
  ON Person.EmailAddress (EmailAddress)
  ON [PRIMARY]
GO


ALTER TABLE Person.EmailAddress
  ADD CONSTRAINT FK_EmailAddress_Person_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person (
  BusinessEntityID)
GO

```

## Depends On 3

-  Person
-  Person.Person
-  AdventureWorks2022

## Used By 5

-  HumanResources.vEmployee
-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithContacts



# Person.Password

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19972
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
 	BusinessEntityID	int	4	10	0	True				False	False	
	PasswordHash	varchar	128	0	0	True				False	False	
	PasswordSalt	varchar	10	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
 	PK_Password_BusinessEntityID	BusinessEntityID	True		

## Foreign Keys

Name	Columns	Description
FK_Password_Person_BusinessEntityID	BusinessEntityID	

## SQL Script

```
CREATE TABLE Person.Password (  
    BusinessEntityID int NOT NULL,  
    PasswordHash varchar(128) NOT NULL,  
    PasswordSalt varchar(10) NOT NULL,  
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Password_rowguid DEFAULT (newid()) ROWGUIDCOL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Password_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_Password_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID)  
)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Person.Password  
    ADD CONSTRAINT FK_Password_Person_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.Person (  
        BusinessEntityID)  
GO
```

## Depends On 3



Person



Person.Person



AdventureWorks2022

## Used By

No items found










## Person.Person

### Description

### Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19972
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39


### Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	PersonType	nchar	2	0	0	True				False	False	
	NameStyle	dbo.NameStyle	1	1	0	True			(0)	False	False	
	Title	nvarchar	8	0	0	False				False	False	
	FirstName	dbo.Name	50	0	0	True				False	False	
	MiddleName	dbo.Name	50	0	0	False				False	False	
	LastName	dbo.Name	50	0	0	True				False	False	
	Suffix	nvarchar	10	0	0	False				False	False	
	EmailPromotion	int	4	10	0	True			(0)	False	False	
	AdditionalContactInfo	Person.AdditionalContactInfoSchemaCollection		0	0	False				False	False	
	Demographics	Person.IndividualSurveySchemaCollection		0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

### Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------



	AK_Person_rowguid	rowguid	True		
	IX_Person_LastName_FirstName_MiddleName	LastName, FirstName, MiddleName	False		
	PK_Person_BusinessEntityID	BusinessEntityID	True		
	PXML_Person_AddContact	AdditionalContactInfo	False		
	PXML_Person_Demographics	Demographics	False		
	XMLPATH_Person_Demographics	Demographics	False		
	XMLPROPERTY_Person_Demographics	Demographics	False		
	XMLVALUE_Person_Demographics	Demographics	False		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
iuPerson	True	True	AFTER INSERT, UPDATE	True	

## Check Constraints

Name	Columns	Condition	Description
CK_Person_EmailPromotion	EmailPromotion	([EmailPromotion]>=(0) AND [EmailPromotion]<=(2))	
CK_Person_PersonType	PersonType	([PersonType] IS NULL OR (upper([PersonType])='GC' OR upper([PersonType])='SP' OR upper([PersonType])='EM' OR upper([PersonType])='IN' OR upper([PersonType])='VC' OR upper([PersonType])='SC'))	

## Foreign Keys

Name	Columns	Description
FK_Person_BusinessEntity_BusinessEntityID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Person.Person (
    BusinessEntityID int NOT NULL,
    PersonType nchar(2) NOT NULL,
    NameStyle dbo.NameStyle NOT NULL CONSTRAINT DF_Person_NameStyle DEFAULT (0),
    Title nvarchar(8) NULL,
    FirstName dbo.Name NOT NULL,
    MiddleName dbo.Name NULL,
    LastName dbo.Name NOT NULL,
    Suffix nvarchar(10) NULL,
    EmailPromotion int NOT NULL CONSTRAINT DF_Person_EmailPromotion DEFAULT (0),
    AdditionalContactInfo xml (CONTENT Person.AdditionalContactInfoSchemaCollection) NULL,
    Demographics xml (CONTENT Person.IndividualSurveySchemaCollection) NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Person_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Person_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_Person_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID),
    CONSTRAINT CK_Person_EmailPromotion CHECK ([EmailPromotion]>=(0) AND [EmailPromotion]<=(2)),
    CONSTRAINT CK_Person_PersonType CHECK ([PersonType] IS NULL OR (upper([PersonType])='GC' OR upper([PersonType])='SP' OR
upper([PersonType])='EM' OR upper([PersonType])='IN' OR upper([PersonType])='VC' OR upper([PersonType])='SC'))
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE PRIMARY XML INDEX PXML_Person_Demographics
ON Person.Person (Demographics)
GO

CREATE PRIMARY XML INDEX PXML_Person_AddContact
ON Person.Person (AdditionalContactInfo)
GO

CREATE UNIQUE INDEX AK_Person_rowguid
ON Person.Person (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_Person_LastName_FirstName_MiddleName
ON Person.Person (LastName, FirstName, MiddleName)
ON [PRIMARY]

```

```

GO

CREATE XML INDEX XMLPATH_Person_Demographics
ON Person.Person (Demographics)
USING XML INDEX PXML_Person_Demographics FOR PATH
GO

CREATE XML INDEX XMLPROPERTY_Person_Demographics
ON Person.Person (Demographics)
USING XML INDEX PXML_Person_Demographics FOR PROPERTY
GO

CREATE XML INDEX XMLVALUE_Person_Demographics
ON Person.Person (Demographics)
USING XML INDEX PXML_Person_Demographics FOR VALUE
GO

CREATE OR ALTER TRIGGER Person.iuPerson ON Person.Person
AFTER INSERT, UPDATE NOT FOR REPLICATION AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;








    IF UPDATE([BusinessEntityID]) OR UPDATE([Demographics])
    BEGIN
        UPDATE [Person].[Person]
        SET [Person].[Person].[Demographics] = N'<IndividualSurvey xmlns="http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey"> <TotalPurchaseYTD>0.00</
TotalPurchaseYTD> </IndividualSurvey>'
        FROM inserted
        WHERE [Person].[Person].[BusinessEntityID] = inserted.[BusinessEntityID]
            AND inserted.[Demographics] IS NULL;

        UPDATE [Person].[Person]
        SET [Demographics].modify(N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey"; insert <TotalPurchaseYTD>0.00</
TotalPurchaseYTD> as first
into (/IndividualSurvey)[1]')
        FROM inserted
        WHERE [Person].[Person].[BusinessEntityID] = inserted.[BusinessEntityID]
            AND inserted.[Demographics] IS NOT NULL
            AND inserted.[Demographics].exist(N'declare default element namespace
"http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey";
/IndividualSurvey/TotalPurchaseYTD') <> 1;
    END;
END;
GO













ALTER TABLE Person.Person
ADD CONSTRAINT FK_Person_BusinessEntity_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.
BusinessEntity (BusinessEntityID)
GO










```

## Depends On 7

-  Person
-  Person.BusinessEntity
-  dbo.NameStyle
-  dbo.Name
-  Person.AdditionalContactInfoSchemaCollection
-  Person.IndividualSurveySchemaCollection
-  AdventureWorks2022

## Used By 21

-  HumanResources.Employee
-  Person.BusinessEntityContact
-  Person.EmailAddress
-  Person.Password
-  Person.PersonPhone
-  Sales.Customer
-  Sales.PersonCreditCard
-  Sales.SalesOrderDetail
-  HumanResources.vEmployee
-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory
-  Person.vAdditionalContactInfo

-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vPersonDemographics
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears
-  Sales.vStoreWithContacts
-  dbo.uspGetEmployeeManagers
-  dbo.uspGetManagerEmployees
-  dbo.ufnGetContactInformation




# Person.PersonPhone

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19972
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	PhoneNumber	dbo.Phone	25	0	0	True				False	False	
	PhoneNumberTypeID	int	4	10	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_PersonPhone_PhoneNumber	PhoneNumber	False		

	PK_PersonPhone_BusinessEntityID_PhoneNumber_PhoneNumberTypeID	BusinessEntityID, PhoneNumber, PhoneNumberTypeID	True		
--	---	--	------	--	--

## Foreign Keys

Name	Columns	Description
FK_PersonPhone_Person_BusinessEntityID	BusinessEntityID	
FK_PersonPhone_PhoneNumberType_PhoneNumberTypeID	PhoneNumberTypeID	

## SQL Script

```

CREATE TABLE Person.PersonPhone (
    BusinessEntityID int NOT NULL,
    PhoneNumber dbo.Phone NOT NULL,
    PhoneNumberTypeID int NOT NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_PersonPhone_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_PersonPhone_BusinessEntityID_PhoneNumber_PhoneNumberTypeID PRIMARY KEY CLUSTERED (BusinessEntityID,
    PhoneNumber, PhoneNumberTypeID)
)
ON [PRIMARY]
GO






CREATE INDEX IX_PersonPhone_PhoneNumber
ON Person.PersonPhone (PhoneNumber)
ON [PRIMARY]
GO

ALTER TABLE Person.PersonPhone
ADD CONSTRAINT FK_PersonPhone_Person_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.Person (
BusinessEntityID)
GO




ALTER TABLE Person.PersonPhone
ADD CONSTRAINT FK_PersonPhone_PhoneNumberType_PhoneNumberTypeID FOREIGN KEY (PhoneNumberTypeID) REFERENCES Person
.PhoneNumberType (PhoneNumberTypeID)
GO

```

## Depends On 5

-  Person
-  Person.Person
-  Person.PhoneNumberType
-  dbo.Phone
-  AdventureWorks2022

## Used By 5

-  HumanResources.vEmployee
-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithContacts


# Person.PhoneNumberType

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	3
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	PhoneNumberTypeID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes




Key	Name	Columns	Unique	Type	Description
	PK_PhoneNumberType_PhoneNumberTypeID	PhoneNumberTypeID	True		

## SQL Script

```
CREATE TABLE Person.PhoneNumberType (
    PhoneNumberTypeID int IDENTITY,
    Name dbo.Name NOT NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_PhoneNumberType_ModifiedDate DEFAULT (getdate()),
```

```
CONSTRAINT PK_PhoneNumberType_PhoneNumberTypeID PRIMARY KEY CLUSTERED (PhoneNumberTypeID)
)
ON [PRIMARY]
GO
```

## Depends On 3

-  Person
-  dbo.Name
-  AdventureWorks2022

## Used By 6

-  Person.PersonPhone
-  HumanResources.vEmployee
-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithContacts







# Person.StateProvince

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	181
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	StateProvinceID	int	4	10	0	True	1 - 1			False	False	
	StateProvinceCode	nchar	3	0	0	True				False	False	
	CountryRegionCode	nvarchar	3	0	0	True				False	False	
	IsOnlyStateProvinceFlag	dbo.Flag	1	1	0	True			(1)	False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	TerritoryID	int	4	10	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes



Key	Name	Columns	Unique	Type	Description
	AK_StateProvince_Name	Name	True		
	AK_StateProvince_rowguid	rowguid	True		
	AK_StateProvince_StateProvinceCode_CountryRegionCode	StateProvinceCode, CountryRegionCode	True		
	PK_StateProvince_StateProvinceID	StateProvinceID	True		

## Foreign Keys

Name	Columns	Description
FK_StateProvince_CountryRegion_CountryRegionCode	CountryRegionCode	
FK_StateProvince_SalesTerritory_TerritoryID	TerritoryID	

## SQL Script

```

CREATE TABLE Person.StateProvince (
    StateProvinceID int IDENTITY,
    StateProvinceCode nchar(3) NOT NULL,
    CountryRegionCode nvarchar(3) NOT NULL,
    IsOnlyStateProvinceFlag dbo.Flag NOT NULL CONSTRAINT DF_StateProvince_IsOnlyStateProvinceFlag DEFAULT (1),
    Name dbo.Name NOT NULL,
    TerritoryID int NOT NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_StateProvince_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_StateProvince_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_StateProvince_StateProvinceID PRIMARY KEY CLUSTERED (StateProvinceID)
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_StateProvince_Name
ON Person.StateProvince (Name)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_StateProvince_rowguid
ON Person.StateProvince (rowguid)
ON [PRIMARY]
GO







CREATE UNIQUE INDEX AK_StateProvince_StateProvinceCode_CountryRegionCode
ON Person.StateProvince (StateProvinceCode, CountryRegionCode)
ON [PRIMARY]
GO

ALTER TABLE Person.StateProvince
ADD CONSTRAINT FK_StateProvince_CountryRegion_CountryRegionCode FOREIGN KEY (CountryRegionCode) REFERENCES Person
.CountryRegion (CountryRegionCode)
GO





ALTER TABLE Person.StateProvince
ADD CONSTRAINT FK_StateProvince_SalesTerritory_TerritoryID FOREIGN KEY (TerritoryID) REFERENCES Sales.
SalesTerritory (TerritoryID)
GO

```

## Depends On 6

-  Person
-  Person.CountryRegion
-  Sales.SalesTerritory
-  dbo.Flag
-  dbo.Name
-  AdventureWorks2022

## Used By 8

-  Person.Address
-  Sales.SalesTaxRate
-  HumanResources.vEmployee
-  Person.vStateProvinceCountryRegion
-  Purchasing.vVendorWithAddresses
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithAddresses








# Production.BillOfMaterials

## Description

## Properties



Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	2679
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BillOfMaterialsID	int	4	10	0	True	1 - 1			False	False	
	ProductAssemblyID	int	4	10	0	False				False	False	
	ComponentID	int	4	10	0	True				False	False	
	StartDate	datetime	8	23	3	True			(getdate())	False	False	
	EndDate	datetime	8	23	3	False				False	False	
	UnitMeasureCode	nchar	3	0	0	True				False	False	
	BOMLevel	smallint	2	5	0	True				False	False	

	PerAssemblyQty	decimal	5	8	2	True		(1.00)	False	False	
	ModifiedDate	datetime	8	23	3	True		(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_BillOfMaterials_ProductAssemblyID_ComponentID_StartDate	ProductAssemblyID, ComponentID, StartDate	True		
	IX_BillOfMaterials_UnitMeasureCode	UnitMeasureCode	False		
	PK_BillOfMaterials_BillOfMaterialsID	BillOfMaterialsID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_BillOfMaterials_BOMLevel	ProductAssemblyID, BOMLevel, PerAssemblyQty	((ProductAssemblyID] IS NULL AND [BOMLevel]=0) AND [PerAssemblyQty]= (1.00) OR [ProductAssemblyID] IS NOT NULL AND [BOMLevel]>=(1))	
CK_BillOfMaterials_EndDate	EndDate, StartDate	(([EndDate]>[StartDate] OR [EndDate] IS NULL)	
CK_BillOfMaterials_PerAssemblyQty	PerAssemblyQty	(([PerAssemblyQty]>=(1.00))	
CK_BillOfMaterials_ProductAssemblyID	ProductAssemblyID, ComponentID	(([ProductAssemblyID]<>[ComponentID])	

## Foreign Keys

Name	Columns	Description
FK_BillOfMaterials_Product_ComponentID	ProductID	
FK_BillOfMaterials_Product_ProductAssemblyID	ProductID	
FK_BillOfMaterials_UnitMeasure_UnitMeasureCode	UnitMeasureCode	

## SQL Script

```

CREATE TABLE Production.BillofMaterials (
    BillofMaterialsID int IDENTITY,
    ProductAssemblyID int NULL,
    ComponentID int NOT NULL,
    StartDate datetime NOT NULL CONSTRAINT DF_BillofMaterials_StartDate DEFAULT (getdate()),
    EndDate datetime NULL,
    UnitMeasureCode nchar(3) NOT NULL,
    BOMLevel smallint NOT NULL,
    PerAssemblyQty decimal(8, 2) NOT NULL CONSTRAINT DF_BillofMaterials_PerAssemblyQty DEFAULT (1.00),
    ModifiedDate datetime NOT NULL CONSTRAINT DF_BillofMaterials_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_BillofMaterials_BillofMaterialsID PRIMARY KEY NONCLUSTERED (BillofMaterialsID),
    CONSTRAINT CK_BillofMaterials_BOMLevel CHECK ([ProductAssemblyID] IS NULL AND [BOMLevel]=0) AND [PerAssemblyQty]
    =(1.00) OR [ProductAssemblyID] IS NOT NULL AND [BOMLevel]>=(1),
    CONSTRAINT CK_BillofMaterials_EndDate CHECK ([EndDate]>[StartDate] OR [EndDate] IS NULL),
    CONSTRAINT CK_BillofMaterials_PerAssemblyQty CHECK ([PerAssemblyQty]>=(1.00)),
    CONSTRAINT CK_BillofMaterials_ProductAssemblyID CHECK ([ProductAssemblyID]<>[ComponentID])
)
ON [PRIMARY]
GO

CREATE UNIQUE CLUSTERED INDEX AK_BillofMaterials_ProductAssemblyID_ComponentID_StartDate
ON Production.BillofMaterials (ProductAssemblyID, ComponentID, StartDate)
ON [PRIMARY]
GO

CREATE INDEX IX_BillofMaterials_UnitMeasureCode

```





```
ON Production.BillOfMaterials (UnitMeasureCode)
ON [PRIMARY]
GO

ALTER TABLE Production.BillOfMaterials
ADD CONSTRAINT FK_BillOfMaterials_Product_ComponentID FOREIGN KEY (ComponentID) REFERENCES Production.Product (
ProductID)
GO



ALTER TABLE Production.BillOfMaterials
ADD CONSTRAINT FK_BillOfMaterials_Product_ProductAssemblyID FOREIGN KEY (ProductAssemblyID) REFERENCES Production
.Product (ProductID)
GO

ALTER TABLE Production.BillOfMaterials
ADD CONSTRAINT FK_BillOfMaterials_UnitMeasure_UnitMeasureCode FOREIGN KEY (UnitMeasureCode) REFERENCES Production
.UnitMeasure (UnitMeasureCode)
GO
```

## Depends On 4

-  [Production](#)
-  [Production.Product](#)
-  [Production.UnitMeasure](#)
-  [AdventureWorks2022](#)

## Used By 2

-  [dbo.uspGetBillOfMaterials](#)
-  [dbo.uspGetWhereUsedProductID](#)



# Production.Culture

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	8
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CultureID	nchar	6	0	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Culture_Name	Name	True		
	PK_Culture_CultureID	CultureID	True		

## SQL Script

```
CREATE TABLE Production.Culture (  
    CultureID nchar(6) NOT NULL,
```

```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_Culture_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_Culture_CultureID PRIMARY KEY CLUSTERED (CultureID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Culture_Name  
ON Production.Culture (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3

 Production

 dbo.Name

 AdventureWorks2022

## Used By 1

 Production.ProductModelProductDescriptionCulture







# Production.Document

## Description




## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	AW2016FullTextCatalog
Full Text	PK_Document_DocumentNode
Compression	NONE
Row Count (~)	13
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	DocumentNode	hierarchyid	892	0	0	True				False	False	
	DocumentLevel	smallint	2	5	0	False				True	False	
	Title	nvarchar	50	0	0	True				False	False	
	Owner	int	4	10	0	True				False	False	
	FolderFlag	bit	1	1	0	True			(0)	False	False	
	FileName	nvarchar	400	0	0	True				False	False	
	FileExtension	nvarchar	8	0	0	True				False	False	
	Revision	nchar	5	0	0	True				False	False	
	ChangeNumber	int	4	10	0	True			(0)	False	False	
	Status	tinyint	1	3	0	True				False	False	





	DocumentSummary	nvarchar		0	0	False				False	False	
	Document	varbinary		0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
DocumentLevel	(([DocumentNode].[GetLevel]()))

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Document_DocumentLevel_DocumentNode	DocumentLevel, DocumentNode	True		
	AK_Document_rowguid	rowguid	True		
	IX_Document_FileName_Revision	FileName, Revision	False		
	PK_Document_DocumentNode	DocumentNode	True		
	UQ__Document__F73921F7C81C642F	rowguid	True		

## Check Constraints

Name	Columns	Condition	Description
CK_Document_Status	Status	(([Status]>=(1) AND [Status]<=(3))	

## Foreign Keys

Name	Columns	Description
FK_Document_Employee_Owner	BusinessEntityID	

## SQL Script

```

CREATE TABLE Production.Document (
  DocumentNode hierarchyid NOT NULL,
  DocumentLevel AS ([DocumentNode].[GetLevel]()),
  Title nvarchar(50) NOT NULL,
  Owner int NOT NULL,
  FolderFlag bit NOT NULL CONSTRAINT DF_Document_FolderFlag DEFAULT (0),
  FileName nvarchar(400) NOT NULL,
  FileExtension nvarchar(8) NOT NULL,
  Revision nchar(5) NOT NULL,
  ChangeNumber int NOT NULL CONSTRAINT DF_Document_ChangeNumber DEFAULT (0),
  Status tinyint NOT NULL,
  DocumentSummary nvarchar(max) NULL,
  Document varbinary(max) NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Document_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_Document_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_Document_DocumentNode PRIMARY KEY CLUSTERED (DocumentNode),
  UNIQUE (rowguid),
  CONSTRAINT CK_Document_Status CHECK ([Status]>=(1) AND [Status]<=(3))
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Document_DocumentLevel_DocumentNode
ON Production.Document (DocumentLevel, DocumentNode)

```

```
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Document_rowguid
ON Production.Document (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_Document_FileName_Revision
ON Production.Document (FileName, Revision)
ON [PRIMARY]
GO

ALTER TABLE Production.Document
ADD CONSTRAINT FK_Document_Employee_Owner FOREIGN KEY (Owner) REFERENCES HumanResources.Employee (
BusinessEntityID)
GO

CREATE FULLTEXT INDEX
ON Production.Document(DocumentSummary LANGUAGE 1033, Document TYPE COLUMN FileExtension LANGUAGE 1033)
KEY INDEX PK_Document_DocumentNode
ON AW2016FullTextCatalog
WITH CHANGE_TRACKING AUTO, STOPLIST SYSTEM
GO
```

## Depends On 3



Production



HumanResources.Employee



AdventureWorks2022

## Used By 1



Production.ProductDocument


# Production.Illustration

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	5
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	IllustrationID	int	4	10	0	True	1 - 1			False	False	
	Diagram	xml		0	0	False				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_Illustration_IllustrationID	IllustrationID	True		

## SQL Script

```
CREATE TABLE Production.Illustration (
    IllustrationID int IDENTITY,
    Diagram xml NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Illustration_ModifiedDate DEFAULT (getdate()),
```

```
CONSTRAINT PK_Illustration_IllustrationID PRIMARY KEY CLUSTERED (IllustrationID)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO
```

## Depends On <sup>1</sup>

 Production

## Used By <sup>1</sup>

 Production.ProductModelIllustration





# Production.Location

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	14
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	LocationID	smallint	2	5	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	CostRate	smallmoney	4	10	4	True			(0.00)	False	False	
	Availability	decimal	5	8	2	True			(0.00)	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Location_Name	Name	True		
	PK_Location_LocationID	LocationID	True		




## Check Constraints

Name	Columns	Condition	Description
CK_Location_Availability	Availability	([Availability]>=(0.00))	
CK_Location_CostRate	CostRate	([CostRate]>=(0.00))	

## SQL Script

```
CREATE TABLE Production.Location (  
    LocationID smallint IDENTITY,  
    Name dbo.Name NOT NULL,  
    CostRate smallmoney NOT NULL CONSTRAINT DF_Location_CostRate DEFAULT (0.00),  
    Availability decimal(8, 2) NOT NULL CONSTRAINT DF_Location_Availability DEFAULT (0.00),  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Location_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_Location_LocationID PRIMARY KEY CLUSTERED (LocationID),  
    CONSTRAINT CK_Location_Availability CHECK ([Availability]>=(0.00)),  
    CONSTRAINT CK_Location_CostRate CHECK ([CostRate]>=(0.00))  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Location_Name  
    ON Production.Location (Name)  
ON [PRIMARY]  
GO
```

## Depends On <sup>3</sup>

-  Production
-  dbo.Name
-  AdventureWorks2022

## Used By <sup>2</sup>

-  Production.ProductInventory
-  Production.WorkOrderRouting








# Production.Product













## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	504
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ProductNumber	nvarchar	25	0	0	True				False	False	
	MakeFlag	dbo.Flag	1	1	0	True			(1)	False	False	
	FinishedGoodsFlag	dbo.Flag	1	1	0	True			(1)	False	False	
	Color	nvarchar	15	0	0	False				False	False	
	SafetyStockLevel	smallint	2	5	0	True				False	False	
	ReorderPoint	smallint	2	5	0	True				False	False	
	StandardCost	money	8	19	4	True				False	False	
	ListPrice	money	8	19	4	True				False	False	

	Size	nvarchar	5	0	0	False			False	False	
	SizeUnitMeasureCode	nchar	3	0	0	False			False	False	
	WeightUnitMeasureCode	nchar	3	0	0	False			False	False	
	Weight	decimal	5	8	2	False			False	False	
	DaysToManufacture	int	4	10	0	True			False	False	
	ProductLine	nchar	2	0	0	False			False	False	
	Class	nchar	2	0	0	False			False	False	
	Style	nchar	2	0	0	False			False	False	
	ProductSubcategoryID	int	4	10	0	False			False	False	
	ProductModelID	int	4	10	0	False			False	False	
	SellStartDate	datetime	8	23	3	True			False	False	
	SellEndDate	datetime	8	23	3	False			False	False	
	DiscontinuedDate	datetime	8	23	3	False			False	False	
	rowguid	uniqueidentifier	16	0	0	True		(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True		(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Product_Name	Name	True		
	AK_Product_ProductNumber	ProductNumber	True		
	AK_Product_rowguid	rowguid	True		
	PK_Product_ProductID	ProductID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_Product_Class	Class	(upper([Class])='H' OR upper([Class])='M' OR upper([Class])='L' OR [Class] IS NULL)	
CK_Product_DaysToManufacture	DaysToManufacture	([DaysToManufacture]>=(0))	
CK_Product_ListPrice	ListPrice	([ListPrice]>=(0.00))	
CK_Product_ProductLine	ProductLine	(upper([ProductLine])='R' OR upper([ProductLine])='M' OR upper([ProductLine])='T' OR upper([ProductLine])='S' OR [ProductLine] IS NULL)	
CK_Product_ReorderPoint	ReorderPoint	([ReorderPoint]>(0))	
CK_Product_SafetyStockLevel	SafetyStockLevel	([SafetyStockLevel]>(0))	
CK_Product_SellEndDate	SellEndDate, SellStartDate	([SellEndDate]>=[SellStartDate] OR [SellEndDate] IS NULL)	
CK_Product_StandardCost	StandardCost	([StandardCost]>=(0.00))	
CK_Product_Style	Style	(upper([Style])='U' OR upper([Style])='M' OR upper([Style])='W' OR [Style] IS NULL)	



CK_Product_Weight	Weight	([Weight]>(0.00))	
-------------------	--------	-------------------	--

## Foreign Keys

Name	Columns	Description
FK_Product_ProductModel_ProductModelID	ProductModelID	
FK_Product_ProductSubcategory_ProductSubcategoryID	ProductSubcategoryID	
FK_Product_UnitMeasure_SizeUnitMeasureCode	UnitMeasureCode	
FK_Product_UnitMeasure_WeightUnitMeasureCode	UnitMeasureCode	

## SQL Script

```

CREATE TABLE Production.Product (
    ProductID int IDENTITY,
    Name dbo.Name NOT NULL,
    ProductNumber nvarchar(25) NOT NULL,
    MakeFlag dbo.Flag NOT NULL CONSTRAINT DF_Product_MakeFlag DEFAULT (1),
    FinishedGoodsFlag dbo.Flag NOT NULL CONSTRAINT DF_Product_FinishedGoodsFlag DEFAULT (1),
    Color nvarchar(15) NULL,
    SafetyStockLevel smallint NOT NULL,
    ReorderPoint smallint NOT NULL,
    StandardCost money NOT NULL,
    ListPrice money NOT NULL,
    Size nvarchar(5) NULL,
    SizeUnitMeasureCode nchar(3) NULL,
    WeightUnitMeasureCode nchar(3) NULL,
    Weight decimal(8, 2) NULL,
    DaysToManufacture int NOT NULL,
    ProductLine nchar(2) NULL,
    Class nchar(2) NULL,
    Style nchar(2) NULL,
    ProductSubcategoryID int NULL,
    ProductModelID int NULL,
    SellStartDate datetime NOT NULL,
    SellEndDate datetime NULL,
    DiscontinuedDate datetime NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Product_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Product_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_Product_ProductID PRIMARY KEY CLUSTERED (ProductID),
    CONSTRAINT CK_Product_Class CHECK (upper([Class])='H' OR upper([Class])='M' OR upper([Class])='L' OR [Class] IS NULL),
    CONSTRAINT CK_Product_DaysToManufacture CHECK ([DaysToManufacture]>=(0)),
    CONSTRAINT CK_Product_ListPrice CHECK ([ListPrice]>=(0.00)),
    CONSTRAINT CK_Product_ProductLine CHECK (upper([ProductLine])='R' OR upper([ProductLine])='M' OR upper([ProductLine])=
OR upper([ProductLine])='S' OR [ProductLine] IS NULL),
    CONSTRAINT CK_Product_ReorderPoint CHECK ([ReorderPoint]>(0)),
    CONSTRAINT CK_Product_SafetyStockLevel CHECK ([SafetyStockLevel]>(0)),
    CONSTRAINT CK_Product_SellEndDate CHECK ([SellEndDate]>=[SellStartDate] OR [SellEndDate] IS NULL),
    CONSTRAINT CK_Product_StandardCost CHECK ([StandardCost]>=(0.00)),
    CONSTRAINT CK_Product_Style CHECK (upper([Style])='U' OR upper([Style])='M' OR upper([Style])='W' OR [Style] IS NULL),
    CONSTRAINT CK_Product_Weight CHECK ([Weight]>(0.00))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Product_Name
ON Production.Product (Name)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Product_ProductNumber
ON Production.Product (ProductNumber)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Product_rowguid
ON Production.Product (rowguid)
ON [PRIMARY]
GO

ALTER TABLE Production.Product

```

```

ADD CONSTRAINT FK_Product_ProductModel_ProductModelID FOREIGN KEY (ProductModelID) REFERENCES Production.
ProductModel (ProductModelID)
GO








ALTER TABLE Production.Product
ADD CONSTRAINT FK_Product_ProductSubcategory_ProductSubcategoryID FOREIGN KEY (ProductSubcategoryID) REFERENCES
Production.ProductSubcategory (ProductSubcategoryID)
GO

ALTER TABLE Production.Product
ADD CONSTRAINT FK_Product_UnitMeasure_SizeUnitMeasureCode FOREIGN KEY (SizeUnitMeasureCode) REFERENCES Production
.UnitMeasure (UnitMeasureCode)
GO




















ALTER TABLE Production.Product
ADD CONSTRAINT FK_Product_UnitMeasure_WeightUnitMeasureCode FOREIGN KEY (WeightUnitMeasureCode) REFERENCES
Production.UnitMeasure (UnitMeasureCode)
GO

```

## Depends On 7

-  Production
-  Production.ProductModel
-  Production.ProductSubcategory
-  Production.UnitMeasure
-  dbo.Name
-  dbo.Flag
-  AdventureWorks2022

## Used By 19

-  Production.BillOfMaterials
-  Production.ProductCostHistory
-  Production.ProductDocument
-  Production.ProductInventory
-  Production.ProductListPriceHistory
-  Production.ProductProductPhoto
-  Production.ProductReview
-  Production.TransactionHistory
-  Production.WorkOrder
-  Purchasing.ProductVendor
-  Purchasing.PurchaseOrderDetail
-  Sales.ShoppingCartItem
-  Sales.SpecialOfferProduct
-  Production.vProductAndDescription
-  dbo.uspGetBillOfMaterials
-  dbo.uspGetWhereUsedProductID
-  dbo.ufnGetProductDealerPrice
-  dbo.ufnGetProductListPrice
-  dbo.ufnGetProductStandardCost




# Production.ProductCategory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	4
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductCategoryID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ProductCategory_Name	Name	True		
	AK_ProductCategory_rowguid	rowguid	True		
	PK_ProductCategory_ProductCategoryID	ProductCategoryID	True		

## SQL Script

```
CREATE TABLE Production.ProductCategory (  
    ProductCategoryID int IDENTITY,  
    Name dbo.Name NOT NULL,  
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ProductCategory_rowguid DEFAULT (newid()) ROWGUIDCOL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductCategory_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_ProductCategory_ProductCategoryID PRIMARY KEY CLUSTERED (ProductCategoryID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_ProductCategory_Name  
    ON Production.ProductCategory (Name)  
    ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_ProductCategory_rowguid  
    ON Production.ProductCategory (rowguid)  
    ON [PRIMARY]  
GO
```

### Depends On 3



Production



dbo.Name



AdventureWorks2022

### Used By 1



Production.ProductSubcategory






# Production.ProductCostHistory

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	395
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductID	int	4	10	0	True				False	False	
												
	StartDate	datetime	8	23	3	True				False	False	
	EndDate	datetime	8	23	3	False				False	False	
	StandardCost	money	8	19	4	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------

	PK_ProductCostHistory_ProductID_StartDate	ProductID, StartDate	True		
--	---	----------------------	------	--	--

## Check Constraints

Name	Columns	Condition	Description
CK_ProductCostHistory_EndDate	EndDate, StartDate	((EndDate)>=[StartDate] OR [EndDate] IS NULL)	
CK_ProductCostHistory_StandardCost	StandardCost	((StandardCost)>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_ProductCostHistory_Product_ProductID	ProductID	

## SQL Script




```

CREATE TABLE Production.ProductCostHistory (
  ProductID int NOT NULL,
  StartDate datetime NOT NULL,
  EndDate datetime NULL,
  StandardCost money NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductCostHistory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductCostHistory_ProductID_StartDate PRIMARY KEY CLUSTERED (ProductID, StartDate),
  CONSTRAINT CK_ProductCostHistory_EndDate CHECK ([EndDate]>=[StartDate] OR [EndDate] IS NULL),
  CONSTRAINT CK_ProductCostHistory_StandardCost CHECK ([StandardCost]>=(0.00))
)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductCostHistory
  ADD CONSTRAINT FK_ProductCostHistory_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
    ProductID)
GO

```

## Depends On 3

-  Production
-  Production.Product
-  AdventureWorks2022

## Used By 1

-  dbo.ufnGetProductStandardCost



# Production.ProductDescription

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	762
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductDescriptionID	int	4	10	0	True	1 - 1			False	False	
	Description	nvarchar	400	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ProductDescription_rowguid	rowguid	True		
	PK_ProductDescription_ProductDescriptionID	ProductDescriptionID	True		

## SQL Script

```
CREATE TABLE Production.ProductDescription (  
    ProductDescriptionID int IDENTITY,  
    Description nvarchar(400) NOT NULL,  
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ProductDescription_rowguid DEFAULT (newid()) ROWGUIDCOL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductDescription_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_ProductDescription_ProductDescriptionID PRIMARY KEY CLUSTERED (ProductDescriptionID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_ProductDescription_rowguid  
ON Production.ProductDescription (rowguid)  
ON [PRIMARY]  
GO
```

## Depends On <sup>2</sup>



Production



AdventureWorks2022

## Used By <sup>2</sup>



Production.ProductModelProductDescriptionCulture



Production.vProductAndDescription







# Production.ProductDocument

## Description



## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	32
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
 	ProductID	int	4	10	0	True				False	False	
 	DocumentNode	hierarchyid	892	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
 	PK_ProductDocument_ProductID_DocumentNode	ProductID, DocumentNode	True		



## Foreign Keys

Name	Columns	Description
FK_ProductDocument_Document_DocumentNode	DocumentNode	
FK_ProductDocument_Product_ProductID	ProductID	

## SQL Script

```
CREATE TABLE Production.ProductDocument (  
    ProductID int NOT NULL,  
    DocumentNode hierarchyid NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductDocument_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_ProductDocument_ProductID_DocumentNode PRIMARY KEY CLUSTERED (ProductID, DocumentNode)  
)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Production.ProductDocument  
    ADD CONSTRAINT FK_ProductDocument_Document_DocumentNode FOREIGN KEY (DocumentNode) REFERENCES Production.Document  
    (DocumentNode)  
GO  
  
ALTER TABLE Production.ProductDocument  
    ADD CONSTRAINT FK_ProductDocument_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (  
    ProductID)  
GO
```

## Depends On 3

-  Production
-  Production.Document
-  Production.Product

## Used By

No items found







# Production.ProductInventory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	1069
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductID	int	4	10	0	True				False	False	
												
	LocationID	smallint	2	5	0	True				False	False	
												
	Shelf	nvarchar	10	0	0	True				False	False	
	Bin	tinyint	1	3	0	True				False	False	
	Quantity	smallint	2	5	0	True			(0)	False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_ProductInventory_ProductID_LocationID	ProductID, LocationID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_ProductInventory_Bin	Bin	(([Bin]>=(0) AND [Bin]<=(100))	
CK_ProductInventory_Shelf	Shelf	(([Shelf] like '[A-Za-z]' OR [Shelf]='N/A')	

## Foreign Keys

Name	Columns	Description
FK_ProductInventory_Location_LocationID	LocationID	
FK_ProductInventory_Product_ProductID	ProductID	

## SQL Script

```





CREATE TABLE Production.ProductInventory (
  ProductID int NOT NULL,
  LocationID smallint NOT NULL,
  Shelf nvarchar(10) NOT NULL,
  Bin tinyint NOT NULL,
  Quantity smallint NOT NULL CONSTRAINT DF_ProductInventory_Quantity DEFAULT (0),
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ProductInventory_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductInventory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductInventory_ProductID_LocationID PRIMARY KEY CLUSTERED (ProductID, LocationID),
  CONSTRAINT CK_ProductInventory_Bin CHECK (([Bin]>=(0) AND [Bin]<=(100)),
  CONSTRAINT CK_ProductInventory_Shelf CHECK ([Shelf] like '[A-Za-z]' OR [Shelf]='N/A')
)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductInventory
  ADD CONSTRAINT FK_ProductInventory_Location_LocationID FOREIGN KEY (LocationID) REFERENCES Production.Location (
  LocationID)
GO

ALTER TABLE Production.ProductInventory
  ADD CONSTRAINT FK_ProductInventory_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
  ProductID)
GO

```

## Depends On 4

-  [Production](#)
-  [Production.Location](#)
-  [Production.Product](#)
-  [AdventureWorks2022](#)

## Used By 1

-  [dbo.ufnGetStock](#)





# Production.ProductListPriceHistory

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	395
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductID	int	4	10	0	True				False	False	
	StartDate	datetime	8	23	3	True				False	False	
	EndDate	datetime	8	23	3	False				False	False	
	ListPrice	money	8	19	4	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------

	PK_ProductListPriceHistory_ProductID_StartDate	ProductID, StartDate	True		
--	--	----------------------	------	--	--

## Check Constraints

Name	Columns	Condition	Description
CK_ProductListPriceHistory_EndDate	EndDate, StartDate	((EndDate)>=[StartDate] OR [EndDate] IS NULL)	
CK_ProductListPriceHistory_ListPrice	ListPrice	((ListPrice)>(0.00))	

## Foreign Keys

Name	Columns	Description
FK_ProductListPriceHistory_Product_ProductID	ProductID	

## SQL Script




```

CREATE TABLE Production.ProductListPriceHistory (
  ProductID int NOT NULL,
  StartDate datetime NOT NULL,
  EndDate datetime NULL,
  ListPrice money NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductListPriceHistory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductListPriceHistory_ProductID_StartDate PRIMARY KEY CLUSTERED (ProductID, StartDate),
  CONSTRAINT CK_ProductListPriceHistory_EndDate CHECK ([EndDate]>=[StartDate] OR [EndDate] IS NULL),
  CONSTRAINT CK_ProductListPriceHistory_ListPrice CHECK ([ListPrice]>(0.00))
)
ON [PRIMARY]
GO



ALTER TABLE Production.ProductListPriceHistory
  ADD CONSTRAINT FK_ProductListPriceHistory_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product
(ProductID)
GO

```

## Depends On 3

-  Production
-  Production.Product
-  AdventureWorks2022

## Used By 2

-  dbo.ufnGetProductDealerPrice
-  dbo.ufnGetProductListPrice

# Production.ProductModel


## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	128
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ProductModel_Name	Name	True		
	AK_ProductModel_rowguid	rowguid	True		
	PK_ProductModel_ProductModelID	ProductModelID	True		
	PXML_ProductModel_CatalogDescription	CatalogDescription	False		
	PXML_ProductModel_Instructions	Instructions	False		

## SQL Script

```
CREATE TABLE Production.ProductModel (
```

```

ProductModelID int IDENTITY,
Name dbo.Name NOT NULL,
CatalogDescription xml (CONTENT Production.ProductDescriptionSchemaCollection) NULL,
Instructions xml (CONTENT Production.ManuInstructionsSchemaCollection) NULL,
rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ProductModel_rowguid DEFAULT (newid()) ROWGUIDCOL,
ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductModel_ModifiedDate DEFAULT (getdate()),
CONSTRAINT PK_ProductModel_ProductModelID PRIMARY KEY CLUSTERED (ProductModelID)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE PRIMARY XML INDEX PXML_ProductModel_Instructions
ON Production.ProductModel (Instructions)
GO






CREATE PRIMARY XML INDEX PXML_ProductModel_CatalogDescription
ON Production.ProductModel (CatalogDescription)
GO

CREATE UNIQUE INDEX AK_ProductModel_Name
ON Production.ProductModel (Name)
ON [PRIMARY]
GO







CREATE UNIQUE INDEX AK_ProductModel_rowguid
ON Production.ProductModel (rowguid)
ON [PRIMARY]
GO

```

## Depends On 5

-  Production
-  dbo.Name
-  Production.ProductDescriptionSchemaCollection
-  Production.ManuInstructionsSchemaCollection
-  AdventureWorks2022

## Used By 6

-  Production.Product
-  Production.ProductModelIllustration
-  Production.ProductModelProductDescriptionCulture
-  Production.vProductAndDescription
-  Production.vProductModelCatalogDescription
-  Production.vProductModelInstructions









# Production.ProductModelIllustration

## Description



## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	7
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	ProductModelID	int	4	10	0	True				False	False	
  	IllustrationID	int	4	10	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
 	PK_ProductModelIllustration_ProductModelID_IllustrationID	ProductModelID, IllustrationID	True		

## Foreign Keys

Name	Columns	Description
FK_ProductModelIllustration_Illustration_IllustrationID	IllustrationID	
FK_ProductModelIllustration_ProductModel_ProductModelID	ProductModelID	

## SQL Script

```

CREATE TABLE Production.ProductModelIllustration (
  ProductModelID int NOT NULL,
  IllustrationID int NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductModelIllustration_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductModelIllustration_ProductModelID_IllustrationID PRIMARY KEY CLUSTERED (ProductModelID,
  IllustrationID)
)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductModelIllustration
ADD CONSTRAINT FK_ProductModelIllustration_Illustration_IllustrationID FOREIGN KEY (IllustrationID) REFERENCES
Production.Illustration (IllustrationID)
GO

ALTER TABLE Production.ProductModelIllustration
ADD CONSTRAINT FK_ProductModelIllustration_ProductModel_ProductModelID FOREIGN KEY (ProductModelID) REFERENCES
Production.ProductModel (ProductModelID)
GO

```

## Depends On 3



Production



Production.Illustration



Production.ProductModel

## Used By

No items found










# Production.ProductModelProductDescriptionCulture

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	762
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	ProductModelID	int	4	10	0	True				False	False	
  	ProductDescriptionID	int	4	10	0	True				False	False	
  	CultureID	nchar	6	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------

	PK_ProductModelProductDescriptionCulture_ProductModelID_ProductDescriptionID_CultureID	ProductModelID, ProductDescriptionID, CultureID	True		
--	--	---	------	--	--

## Foreign Keys

Name	Columns	Description
FK_ProductModelProductDescriptionCulture_Culture_CultureID	CultureID	
FK_ProductModelProductDescriptionCulture_ProductDescription_ProductDescriptionID	ProductDescriptionID	
FK_ProductModelProductDescriptionCulture_ProductModel_ProductModelID	ProductModelID	

## SQL Script

```

CREATE TABLE Production.ProductModelProductDescriptionCulture (
    ProductModelID int NOT NULL,
    ProductDescriptionID int NOT NULL,
    CultureID nchar(6) NOT NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductModelProductDescriptionCulture_ModifiedDate DEFAULT (getdate(
)),
    CONSTRAINT PK_ProductModelProductDescriptionCulture_ProductModelID_ProductDescriptionID_CultureID PRIMARY KEY
    CLUSTERED (ProductModelID, ProductDescriptionID, CultureID)
)
ON [PRIMARY]
GO






ALTER TABLE Production.ProductModelProductDescriptionCulture
    ADD CONSTRAINT FK_ProductModelProductDescriptionCulture_Culture_CultureID FOREIGN KEY (CultureID) REFERENCES
    Production.Culture (CultureID)
GO

ALTER TABLE Production.ProductModelProductDescriptionCulture
    ADD CONSTRAINT FK_ProductModelProductDescriptionCulture_ProductDescription_ProductDescriptionID FOREIGN KEY (
    ProductDescriptionID) REFERENCES Production.ProductDescription (ProductDescriptionID)
GO

ALTER TABLE Production.ProductModelProductDescriptionCulture
    ADD CONSTRAINT FK_ProductModelProductDescriptionCulture_ProductModel_ProductModelID FOREIGN KEY (ProductModelID)
    REFERENCES Production.ProductModel (ProductModelID)
GO

```

## Depends On 5

-  [Production](#)
-  [Production.Culture](#)
-  [Production.ProductDescription](#)
-  [Production.ProductModel](#)
-  [AdventureWorks2022](#)

## Used By 1

-  [Production.vProductAndDescription](#)


# Production.ProductPhoto

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	101
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductPhotoID	int	4	10	0	True	1 - 1			False	False	
	ThumbNailPhoto	varbinary		0	0	False				False	False	
	ThumbnailPhotoFileName	nvarchar	50	0	0	False				False	False	
	LargePhoto	varbinary		0	0	False				False	False	
	LargePhotoFileName	nvarchar	50	0	0	False				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_ProductPhoto_ProductPhotoID	ProductPhotoID	True		

## SQL Script

```
CREATE TABLE Production.ProductPhoto (  
    ProductPhotoID int IDENTITY,  
    ThumbnailPhoto varbinary(max) NULL,  
    ThumbnailPhotoFileName nvarchar(50) NULL,  
    LargePhoto varbinary(max) NULL,  
    LargePhotoFileName nvarchar(50) NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductPhoto_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_ProductPhoto_ProductPhotoID PRIMARY KEY CLUSTERED (ProductPhotoID)  
)  
ON [PRIMARY]  
TEXTIMAGE_ON [PRIMARY]  
GO
```

## Depends On <sup>2</sup>



Production



AdventureWorks2022

## Used By <sup>1</sup>



Production.ProductProductPhoto



# Production.ProductProductPhoto

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	True
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	504
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductID	int	4	10	0	True				False	False	
	ProductPhotoID	int	4	10	0	True				False	False	
	Primary	dbo.Flag	1	1	0	True			(0)	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_ProductProductPhoto_ProductID_ProductPhotoID	ProductID, ProductPhotoID	True		

## Foreign Keys

Name	Columns	Description
FK_ProductProductPhoto_Product_ProductID	ProductID	
FK_ProductProductPhoto_ProductPhoto_ProductPhotoID	ProductPhotoID	

## SQL Script

```

CREATE TABLE Production.ProductProductPhoto (
  ProductID int NOT NULL,
  ProductPhotoID int NOT NULL,
  [Primary] dbo.Flag NOT NULL CONSTRAINT DF_ProductProductPhoto_Primary DEFAULT (0),
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductProductPhoto_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductProductPhoto_ProductID_ProductPhotoID PRIMARY KEY NONCLUSTERED (ProductID, ProductPhotoID)
)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductProductPhoto
ADD CONSTRAINT FK_ProductProductPhoto_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
ProductID)
GO

ALTER TABLE Production.ProductProductPhoto
ADD CONSTRAINT FK_ProductProductPhoto_ProductPhoto_ProductPhotoID FOREIGN KEY (ProductPhotoID) REFERENCES
Production.ProductPhoto (ProductPhotoID)
GO

```

## Depends On 4

-  Production
-  Production.Product
-  Production.ProductPhoto
-  dbo.Flag

## Used By

No items found








# Production.ProductReview

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	AW2016FullTextCatalog
Full Text	PK_ProductReview_ProductReviewID
Compression	NONE
Row Count (~)	4
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductReviewID	int	4	10	0	True	1 - 1			False	False	
	ProductID	int	4	10	0	True				False	False	
	ReviewerName	dbo.Name	50	0	0	True				False	False	
	ReviewDate	datetime	8	23	3	True			(getdate())	False	False	
	EmailAddress	nvarchar	50	0	0	True				False	False	
	Rating	int	4	10	0	True				False	False	
	Comments	nvarchar	3850	0	0	False				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_ProductReview_ProductID_Name	ProductID, ReviewerName	False		
	PK_ProductReview_ProductReviewID	ProductReviewID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_ProductReview_Rating	Rating	([Rating]>=(1) AND [Rating]<=(5))	

## Foreign Keys

Name	Columns	Description
FK_ProductReview_Product_ProductID	ProductID	

## SQL Script

```

CREATE TABLE Production.ProductReview (
    ProductReviewID int IDENTITY,
    ProductID int NOT NULL,
    ReviewerName dbo.Name NOT NULL,
    ReviewDate datetime NOT NULL CONSTRAINT DF_ProductReview_ReviewDate DEFAULT (getdate()),
    EmailAddress nvarchar(50) NOT NULL,
    Rating int NOT NULL,
    Comments nvarchar(3850) NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductReview_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_ProductReview_ProductReviewID PRIMARY KEY CLUSTERED (ProductReviewID),
    CONSTRAINT CK_ProductReview_Rating CHECK ([Rating]>=(1) AND [Rating]<=(5))
)
ON [PRIMARY]
GO





CREATE INDEX IX_ProductReview_ProductID_Name
ON Production.ProductReview (ProductID, ReviewerName)
INCLUDE (Comments)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductReview
ADD CONSTRAINT FK_ProductReview_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
ProductID)
GO

CREATE FULLTEXT INDEX
ON Production.ProductReview(Comments LANGUAGE 1033)
KEY INDEX PK_ProductReview_ProductReviewID
ON AW2016FullTextCatalog
WITH CHANGE_TRACKING AUTO, STOPLIST SYSTEM
GO

```

## Depends On 4

-  Production
-  Production.Product
-  dbo.Name
-  AdventureWorks2022

## Used By

No items found





# Production.ProductSubcategory

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	37
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ProductSubcategoryID	int	4	10	0	True	1 - 1			False	False	
	ProductCategoryID	int	4	10	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ProductSubcategory_Name	Name	True		
	AK_ProductSubcategory_rowguid	rowguid	True		

	PK_ProductSubcategory_ProductSubcategoryID	ProductSubcategoryID	True		
--	--	----------------------	------	--	--

## Foreign Keys

Name	Columns	Description
FK_ProductSubcategory_ProductCategory_ProductCategoryID	ProductCategoryID	

## SQL Script

```

CREATE TABLE Production.ProductSubcategory (
  ProductSubcategoryID int IDENTITY,
  ProductCategoryID int NOT NULL,
  Name dbo.Name NOT NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ProductSubcategory_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductSubcategory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ProductSubcategory_ProductSubcategoryID PRIMARY KEY CLUSTERED (ProductSubcategoryID)
)
ON [PRIMARY]
GO





CREATE UNIQUE INDEX AK_ProductSubcategory_Name
ON Production.ProductSubcategory (Name)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_ProductSubcategory_rowguid
ON Production.ProductSubcategory (rowguid)
ON [PRIMARY]
GO

ALTER TABLE Production.ProductSubcategory
ADD CONSTRAINT FK_ProductSubcategory_ProductCategory_ProductCategoryID FOREIGN KEY (ProductCategoryID) REFERENCES
Production.ProductCategory (ProductCategoryID)
GO

```

## Depends On 4

-  Production
-  Production.ProductCategory
-  dbo.Name
-  AdventureWorks2022

## Used By 1

-  Production.Product



# Production.ScrapReason

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	16
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ScrapReasonID	smallint	2	5	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ScrapReason_Name	Name	True		
	PK_ScrapReason_ScrapReasonID	ScrapReasonID	True		

## SQL Script

```
CREATE TABLE Production.ScrapReason (
    ScrapReasonID smallint IDENTITY,
```

```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_ScrapReason_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_ScrapReason_ScrapReasonID PRIMARY KEY CLUSTERED (ScrapReasonID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_ScrapReason_Name  
ON Production.ScrapReason (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3



Production



dbo.Name



AdventureWorks2022

## Used By 1



Production.WorkOrder






# Production.TransactionHistory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	113443
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	TransactionID	int	4	10	0	True	100000 - 1			False	False	
	ProductID	int	4	10	0	True				False	False	
	ReferenceOrderID	int	4	10	0	True				False	False	
	ReferenceOrderLineID	int	4	10	0	True			(0)	False	False	
	TransactionDate	datetime	8	23	3	True			(getdate())	False	False	
	TransactionType	nchar	1	0	0	True				False	False	
	Quantity	int	4	10	0	True				False	False	
	ActualCost	money	8	19	4	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_TransactionHistory_ProductID	ProductID	False		
	IX_TransactionHistory_ReferenceOrderID_ReferenceOrderLineID	ReferenceOrderID, ReferenceOrderLineID	False		
	PK_TransactionHistory_TransactionID	TransactionID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_TransactionHistory_TransactionType	TransactionType	(upper([TransactionType])='P' OR upper([TransactionType])='S' OR upper([TransactionType])='W')	




## Foreign Keys

Name	Columns	Description
FK_TransactionHistory_Product_ProductID	ProductID	

## SQL Script

```
CREATE TABLE Production.TransactionHistory (  
    TransactionID int IDENTITY (100000, 1),  
    ProductID int NOT NULL,  
    ReferenceOrderID int NOT NULL,  
    ReferenceOrderLineID int NOT NULL CONSTRAINT DF_TransactionHistory_ReferenceOrderLineID DEFAULT (0),  
    TransactionDate datetime NOT NULL CONSTRAINT DF_TransactionHistory_TransactionDate DEFAULT (getdate()),  
    TransactionType nchar(1) NOT NULL,  
    Quantity int NOT NULL,  
    ActualCost money NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_TransactionHistory_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_TransactionHistory_TransactionID PRIMARY KEY CLUSTERED (TransactionID),  
    CONSTRAINT CK_TransactionHistory_TransactionType CHECK (upper([TransactionType])='P' OR upper([TransactionType])='  
S' OR  
upper([TransactionType])='W')  
)  
ON [PRIMARY]  
GO  
  
CREATE INDEX IX_TransactionHistory_ProductID  
ON Production.TransactionHistory (ProductID)  
ON [PRIMARY]  
GO  
  
CREATE INDEX IX_TransactionHistory_ReferenceOrderID_ReferenceOrderLineID  
ON Production.TransactionHistory (ReferenceOrderID, ReferenceOrderLineID)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Production.TransactionHistory  
ADD CONSTRAINT FK_TransactionHistory_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (  
ProductID)  
GO
```

## Depends On 3

-  Production
-  Production.Product
-  AdventureWorks2022

## Used By 3

-  Production.WorkOrder



 Purchasing.PurchaseOrderDetail

 Sales.SalesOrderDetail






# Production.TransactionHistoryArchive

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	89253
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:35

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	TransactionID	int	4	10	0	True				False	False	
	ProductID	int	4	10	0	True				False	False	
	ReferenceOrderID	int	4	10	0	True				False	False	
	ReferenceOrderLineID	int	4	10	0	True			(0)	False	False	
	TransactionDate	datetime	8	23	3	True			(getdate())	False	False	
	TransactionType	nchar	1	0	0	True				False	False	
	Quantity	int	4	10	0	True				False	False	
	ActualCost	money	8	19	4	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_TransactionHistoryArchive_ProductID	ProductID	False		
	IX_TransactionHistoryArchive_ReferenceOrderID_ReferenceOrderLineID	ReferenceOrderID, ReferenceOrderLineID	False		
	PK_TransactionHistoryArchive_TransactionID	TransactionID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_TransactionHistoryArchive_TransactionType	TransactionType	(upper([TransactionType])='P' OR upper([TransactionType])='S' OR upper([TransactionType])='W')	

## SQL Script

```

CREATE TABLE Production.TransactionHistoryArchive (
  TransactionID int NOT NULL,
  ProductID int NOT NULL,
  ReferenceOrderID int NOT NULL,
  ReferenceOrderLineID int NOT NULL CONSTRAINT DF_TransactionHistoryArchive_ReferenceOrderLineID DEFAULT (0),
  TransactionDate datetime NOT NULL CONSTRAINT DF_TransactionHistoryArchive_TransactionDate DEFAULT (getdate()),
  TransactionType nchar(1) NOT NULL,
  Quantity int NOT NULL,
  ActualCost money NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_TransactionHistoryArchive_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_TransactionHistoryArchive_TransactionID PRIMARY KEY CLUSTERED (TransactionID),
  CONSTRAINT CK_TransactionHistoryArchive_TransactionType CHECK (upper([TransactionType])='P' OR upper([TransactionType])='S' OR upper([TransactionType])='W')
)
ON [PRIMARY]
GO

CREATE INDEX IX_TransactionHistoryArchive_ProductID
  ON Production.TransactionHistoryArchive (ProductID)
  ON [PRIMARY]
GO

CREATE INDEX IX_TransactionHistoryArchive_ReferenceOrderID_ReferenceOrderLineID
  ON Production.TransactionHistoryArchive (ReferenceOrderID, ReferenceOrderLineID)
  ON [PRIMARY]
GO

```

## Depends On 2



Production



AdventureWorks2022

## Used By

No items found



# Production.UnitMeasure

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	38
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	UnitMeasureCode	nchar	3	0	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_UnitMeasure_Name	Name	True		
	PK_UnitMeasure_UnitMeasureCode	UnitMeasureCode	True		

## SQL Script

```
CREATE TABLE Production.UnitMeasure (
    UnitMeasureCode nchar(3) NOT NULL,
```

```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_UnitMeasure_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_UnitMeasure_UnitMeasureCode PRIMARY KEY CLUSTERED (UnitMeasureCode)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_UnitMeasure_Name  
ON Production.UnitMeasure (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3

 Production

 dbo.Name

 AdventureWorks2022

## Used By 3

 Production.BillOfMaterials

 Production.Product

 Purchasing.ProductVendor








# Production.WorkOrder

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	72591
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns


Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	WorkOrderID	int	4	10	0	True	1 - 1			False	False	
	ProductID	int	4	10	0	True				False	False	
	OrderQty	int	4	10	0	True				False	False	
	StockedQty	int	4	10	0	True				True	False	
	ScrappedQty	smallint	2	5	0	True				False	False	
	StartDate	datetime	8	23	3	True				False	False	
	EndDate	datetime	8	23	3	False				False	False	
	DueDate	datetime	8	23	3	True				False	False	
	ScrapReasonID	smallint	2	5	0	False				False	False	

	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	
--	--------------	----------	---	----	---	------	--	--	-------------	-------	-------	--

## Computed Columns

Name	Definition
StockedQty	(isnull([OrderQty]-[ScrappedQty],(0)))

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_WorkOrder_ProductID	ProductID	False		
	IX_WorkOrder_ScrapReasonID	ScrapReasonID	False		
	PK_WorkOrder_WorkOrderID	WorkOrderID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
iWorkOrder	True	True	AFTER INSERT	False	
uWorkOrder	True	True	AFTER UPDATE	False	

## Check Constraints

Name	Columns	Condition	Description
CK_WorkOrder_EndDate	EndDate, StartDate	([EndDate]>=[StartDate] OR [EndDate] IS NULL)	
CK_WorkOrder_OrderQty	OrderQty	([OrderQty]>(0))	
CK_WorkOrder_ScrappedQty	ScrappedQty	([ScrappedQty]>=(0))	

## Foreign Keys

Name	Columns	Description
FK_WorkOrder_Product_ProductID	ProductID	
FK_WorkOrder_ScrapReason_ScrapReasonID	ScrapReasonID	

## SQL Script

```

CREATE TABLE Production.WorkOrder (
    WorkOrderID int IDENTITY,
    ProductID int NOT NULL,
    OrderQty int NOT NULL,
    StockedQty AS (isnull([OrderQty]-[ScrappedQty],(0))),
    ScrappedQty smallint NOT NULL,
    StartDate datetime NOT NULL,
    EndDate datetime NULL,
    DueDate datetime NOT NULL,
    ScrapReasonID smallint NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_WorkOrder_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_WorkOrder_WorkOrderID PRIMARY KEY CLUSTERED (WorkOrderID),
    CONSTRAINT CK_WorkOrder_EndDate CHECK ([EndDate]>=[StartDate] OR [EndDate] IS NULL),
    CONSTRAINT CK_WorkOrder_OrderQty CHECK ([OrderQty]>(0)),
    CONSTRAINT CK_WorkOrder_ScrappedQty CHECK ([ScrappedQty]>=(0))
)
ON [PRIMARY]
GO

CREATE INDEX IX_WorkOrder_ProductID
ON Production.WorkOrder (ProductID)
ON [PRIMARY]

```

```

GO

CREATE INDEX IX_WorkOrder_ScrapReasonID
  ON Production.WorkOrder (ScrapReasonID)
  ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Production.iWorkOrder ON Production.WorkOrder
AFTER INSERT AS
BEGIN
  DECLARE @Count int;

  SET @Count = @@ROWCOUNT;
  IF @Count = 0
    RETURN;

  SET NOCOUNT ON;

  BEGIN TRY
    INSERT INTO [Production].[TransactionHistory](
      [ProductID]
      ,[ReferenceOrderID]
      ,[TransactionType]
      ,[TransactionDate]
      ,[Quantity]
      ,[ActualCost])
    SELECT
      inserted.[ProductID]
      ,inserted.[WorkOrderID]
      ,'W'
      ,GETDATE()
      ,inserted.[OrderQty]
      ,0
    FROM inserted;
  END TRY
  BEGIN CATCH
    EXECUTE [dbo].[uspPrintError];

    -- Rollback any active or uncommittable transactions before
    -- inserting information in the ErrorLog
    IF @@TRANCOUNT > 0
    BEGIN
      ROLLBACK TRANSACTION;
    END

    EXECUTE [dbo].[uspLogError];
  END CATCH;
END;
GO
CREATE OR ALTER TRIGGER Production.uWorkOrder ON Production.WorkOrder
AFTER UPDATE AS
BEGIN
  DECLARE @Count int;

  SET @Count = @@ROWCOUNT;
  IF @Count = 0
    RETURN;

  SET NOCOUNT ON;

  BEGIN TRY
    IF UPDATE([ProductID]) OR UPDATE([OrderQty])
    BEGIN
      INSERT INTO [Production].[TransactionHistory](
        [ProductID]
        ,[ReferenceOrderID]
        ,[TransactionType]
        ,[TransactionDate]
        ,[Quantity])
      SELECT
        inserted.[ProductID]
        ,inserted.[WorkOrderID]
        ,'W'
        ,GETDATE()
        ,inserted.[OrderQty]
      FROM inserted;
    END
  END TRY
  BEGIN CATCH
  END;

```



```
END TRY
BEGIN CATCH
    EXECUTE [dbo].[uspPrintError];






    -- Rollback any active or uncommittable transactions before
    -- inserting information in the ErrorLog
    IF @@TRANCOUNT > 0
    BEGIN
        ROLLBACK TRANSACTION;
    END

    EXECUTE [dbo].[uspLogError];
END CATCH;
END;
GO

ALTER TABLE Production.WorkOrder
ADD CONSTRAINT FK_WorkOrder_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (ProductID)
GO

ALTER TABLE Production.WorkOrder
ADD CONSTRAINT FK_WorkOrder_ScrapReason_ScrapReasonID FOREIGN KEY (ScrapReasonID) REFERENCES Production.
ScrapReason (ScrapReasonID)
GO
```

## Depends On <sup>7</sup>

-  Production
-  Production.Product
-  Production.ScrapReason
-  Production.TransactionHistory
-  dbo.uspPrintError
-  dbo.uspLogError
-  AdventureWorks2022

## Used By <sup>1</sup>

-  Production.WorkOrderRouting












# Production.WorkOrderRouting

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	67131
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	WorkOrderID	int	4	10	0	True				False	False	
												
	ProductID	int	4	10	0	True				False	False	
												
	OperationSequence	smallint	2	5	0	True				False	False	
												
	LocationID	smallint	2	5	0	True				False	False	
	ScheduledStartDate	datetime	8	23	3	True				False	False	
	ScheduledEndDate	datetime	8	23	3	True				False	False	
	ActualStartDate	datetime	8	23	3	False				False	False	
	ActualEndDate	datetime	8	23	3	False				False	False	

	ActualResourceHrs	decimal	5	9	4	False				False	False	
	PlannedCost	money	8	19	4	True				False	False	
	ActualCost	money	8	19	4	False				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_WorkOrderRouting_ProductID	ProductID	False		
	PK_WorkOrderRouting_WorkOrderID_ProductID_OperationSequence	WorkOrderID, ProductID, OperationSequence	True		

## Check Constraints

Name	Columns	Condition	Description
CK_WorkOrderRouting_ActualCost	ActualCost	([ActualCost]>(0.00))	
CK_WorkOrderRouting_ActualEndDate	ActualEndDate, ActualStartDate	([ActualEndDate]>= [ActualStartDate] OR [ActualEndDate] IS NULL OR [ActualStartDate] IS NULL)	
CK_WorkOrderRouting_ActualResourceHrs	ActualResourceHrs	([ActualResourceHrs]>=(0.0000))	
CK_WorkOrderRouting_PlannedCost	PlannedCost	([PlannedCost]>(0.00))	
CK_WorkOrderRouting_ScheduledEndDate	ScheduledEndDate, ScheduledStartDate	([ScheduledEndDate]>= [ScheduledStartDate])	

## Foreign Keys

Name	Columns	Description
FK_WorkOrderRouting_Location_LocationID	LocationID	
FK_WorkOrderRouting_WorkOrder_WorkOrderID	WorkOrderID	

## SQL Script

```

CREATE TABLE Production.WorkOrderRouting (
    WorkOrderID int NOT NULL,
    ProductID int NOT NULL,
    OperationSequence smallint NOT NULL,
    LocationID smallint NOT NULL,
    ScheduledStartDate datetime NOT NULL,
    ScheduledEndDate datetime NOT NULL,
    ActualStartDate datetime NULL,
    ActualEndDate datetime NULL,
    ActualResourceHrs decimal(9, 4) NULL,
    PlannedCost money NOT NULL,
    ActualCost money NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_WorkOrderRouting_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_WorkOrderRouting_WorkOrderID_ProductID_OperationSequence PRIMARY KEY CLUSTERED (WorkOrderID,
    ProductID, OperationSequence),
    CONSTRAINT CK_WorkOrderRouting_ActualCost CHECK ([ActualCost]>(0.00)),
    CONSTRAINT CK_WorkOrderRouting_ActualEndDate CHECK ([ActualEndDate]>=[ActualStartDate] OR [ActualEndDate] IS NULL
    OR [ActualStartDate] IS NULL),
    CONSTRAINT CK_WorkOrderRouting_ActualResourceHrs CHECK ([ActualResourceHrs]>=(0.0000)),
    CONSTRAINT CK_WorkOrderRouting_PlannedCost CHECK ([PlannedCost]>(0.00)),
    CONSTRAINT CK_WorkOrderRouting_ScheduledEndDate CHECK ([ScheduledEndDate]>=[ScheduledStartDate])
)
ON [PRIMARY]
GO

```

```
CREATE INDEX IX_WorkOrderRouting_ProductID
ON Production.WorkOrderRouting (ProductID)
ON [PRIMARY]
GO

ALTER TABLE Production.WorkOrderRouting
ADD CONSTRAINT FK_WorkOrderRouting_Location_LocationID FOREIGN KEY (LocationID) REFERENCES Production.Location (
LocationID)
GO

ALTER TABLE Production.WorkOrderRouting
ADD CONSTRAINT FK_WorkOrderRouting_WorkOrder_WorkOrderID FOREIGN KEY (WorkOrderID) REFERENCES Production.
WorkOrder (WorkOrderID)
GO
```

## Depends On 4



Production



Production.Location



Production.WorkOrder



AdventureWorks2022

## Used By

No items found











# Purchasing.ProductVendor



## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	460
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
 	ProductID	int	4	10	0	True				False	False	
  	BusinessEntityID	int	4	10	0	True				False	False	
	AverageLeadTime	int	4	10	0	True				False	False	
	StandardPrice	money	8	19	4	True				False	False	
	LastReceiptCost	money	8	19	4	False				False	False	
	LastReceiptDate	datetime	8	23	3	False				False	False	
	MinOrderQty	int	4	10	0	True				False	False	
	MaxOrderQty	int	4	10	0	True				False	False	

	OnOrderQty	int	4	10	0	False				False	False	
	UnitMeasureCode	nchar	3	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_ProductVendor_BusinessEntityID	BusinessEntityID	False		
	IX_ProductVendor_UnitMeasureCode	UnitMeasureCode	False		
	PK_ProductVendor_ProductID_BusinessEntityID	ProductID, BusinessEntityID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_ProductVendor_AverageLeadTime	AverageLeadTime	([AverageLeadTime]>=(1))	
CK_ProductVendor_LastReceiptCost	LastReceiptCost	([LastReceiptCost]>(0.00))	
CK_ProductVendor_MaxOrderQty	MaxOrderQty	([MaxOrderQty]>=(1))	
CK_ProductVendor_MinOrderQty	MinOrderQty	([MinOrderQty]>=(1))	
CK_ProductVendor_OnOrderQty	OnOrderQty	([OnOrderQty]>=(0))	
CK_ProductVendor_StandardPrice	StandardPrice	([StandardPrice]>(0.00))	

## Foreign Keys

Name	Columns	Description
FK_ProductVendor_Product_ProductID	ProductID	
FK_ProductVendor_UnitMeasure_UnitMeasureCode	UnitMeasureCode	
FK_ProductVendor_Vendor_BusinessEntityID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Purchasing.ProductVendor (
    ProductID int NOT NULL,
    BusinessEntityID int NOT NULL,
    AverageLeadTime int NOT NULL,
    StandardPrice money NOT NULL,
    LastReceiptCost money NULL,
    LastReceiptDate datetime NULL,
    MinOrderQty int NOT NULL,
    MaxOrderQty int NOT NULL,
    OnOrderQty int NULL,
    UnitMeasureCode nchar(3) NOT NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_ProductVendor_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_ProductVendor_ProductID_BusinessEntityID PRIMARY KEY CLUSTERED (ProductID, BusinessEntityID),
    CONSTRAINT CK_ProductVendor_AverageLeadTime CHECK ([AverageLeadTime]>=(1)),
    CONSTRAINT CK_ProductVendor_LastReceiptCost CHECK ([LastReceiptCost]>(0.00)),
    CONSTRAINT CK_ProductVendor_MaxOrderQty CHECK ([MaxOrderQty]>=(1)),
    CONSTRAINT CK_ProductVendor_MinOrderQty CHECK ([MinOrderQty]>=(1)),
    CONSTRAINT CK_ProductVendor_OnOrderQty CHECK ([OnOrderQty]>=(0)),
    CONSTRAINT CK_ProductVendor_StandardPrice CHECK ([StandardPrice]>(0.00))
)
ON [PRIMARY]
GO

CREATE INDEX IX_ProductVendor_BusinessEntityID
ON Purchasing.ProductVendor (BusinessEntityID)

```

```
ON [PRIMARY]
GO






CREATE INDEX IX_ProductVendor_UnitMeasureCode
ON Purchasing.ProductVendor (UnitMeasureCode)
ON [PRIMARY]
GO

ALTER TABLE Purchasing.ProductVendor
ADD CONSTRAINT FK_ProductVendor_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
ProductID)
GO

ALTER TABLE Purchasing.ProductVendor
ADD CONSTRAINT FK_ProductVendor_UnitMeasure_UnitMeasureCode FOREIGN KEY (UnitMeasureCode) REFERENCES Production.
UnitMeasure (UnitMeasureCode)
GO

ALTER TABLE Purchasing.ProductVendor
ADD CONSTRAINT FK_ProductVendor_Vendor_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Purchasing.
Vendor (BusinessEntityID)
GO
```

## Depends On 5

-  Purchasing
-  Production.Product
-  Production.UnitMeasure
-  Purchasing.Vendor
-  AdventureWorks2022

## Used By

No items found








# Purchasing.PurchaseOrderDetail

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	8845
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	PurchaseOrderID	int	4	10	0	True				False	False	
	PurchaseOrderDetailID	int	4	10	0	True	1 - 1			False	False	
	DueDate	datetime	8	23	3	True				False	False	
	OrderQty	smallint	2	5	0	True				False	False	
	ProductID	int	4	10	0	True				False	False	
	UnitPrice	money	8	19	4	True				False	False	
	LineTotal	money	8	19	4	True				True	False	
	ReceivedQty	decimal	5	8	2	True				False	False	
	RejectedQty	decimal	5	8	2	True				False	False	




	StockedQty	decimal	5	9	2	True				True	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
LineTotal	(isnull([OrderQty]*[UnitPrice],(0.00)))
StockedQty	(isnull([ReceivedQty]-[RejectedQty],(0.00)))

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_PurchaseOrderDetail_ProductID	ProductID	False		
	PK_PurchaseOrderDetail_PurchaseOrderID_PurchaseOrderDetailID	PurchaseOrderID, PurchaseOrderDetailID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
iPurchaseOrderDetail	True	True	AFTER INSERT	False	
uPurchaseOrderDetail	True	True	AFTER UPDATE	False	

## Check Constraints

Name	Columns	Condition	Description
CK_PurchaseOrderDetail_OrderQty	OrderQty	([OrderQty]>(0))	
CK_PurchaseOrderDetail_ReceivedQty	ReceivedQty	([ReceivedQty]>=(0.00))	
CK_PurchaseOrderDetail_RejectedQty	RejectedQty	([RejectedQty]>=(0.00))	
CK_PurchaseOrderDetail_UnitPrice	UnitPrice	([UnitPrice]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_PurchaseOrderDetail_Product_ProductID	ProductID	
FK_PurchaseOrderDetail_PurchaseOrderHeader_PurchaseOrderID	PurchaseOrderID	

## SQL Script

```
CREATE TABLE Purchasing.PurchaseOrderDetail (
    PurchaseOrderID int NOT NULL,
    PurchaseOrderDetailID int IDENTITY,
    DueDate datetime NOT NULL,
    OrderQty smallint NOT NULL,
    ProductID int NOT NULL,
    UnitPrice money NOT NULL,
    LineTotal AS (isnull([OrderQty]*[UnitPrice],(0.00))),
    ReceivedQty decimal(8, 2) NOT NULL,
    RejectedQty decimal(8, 2) NOT NULL,
    StockedQty AS (isnull([ReceivedQty]-[RejectedQty],(0.00))),
    ModifiedDate datetime NOT NULL CONSTRAINT DF_PurchaseOrderDetail_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_PurchaseOrderDetail_PurchaseOrderID_PurchaseOrderDetailID PRIMARY KEY CLUSTERED (PurchaseOrderID,
    PurchaseOrderDetailID),
    CONSTRAINT CK_PurchaseOrderDetail_OrderQty CHECK ([OrderQty]>(0)),
```

```

CONSTRAINT CK_PurchaseOrderDetail_ReceivedQty CHECK ([ReceivedQty]>=(0.00)),
CONSTRAINT CK_PurchaseOrderDetail_RejectedQty CHECK ([RejectedQty]>=(0.00)),
CONSTRAINT CK_PurchaseOrderDetail_UnitPrice CHECK ([UnitPrice]>=(0.00))
)
ON [PRIMARY]
GO

CREATE INDEX IX_PurchaseOrderDetail_ProductID
ON Purchasing.PurchaseOrderDetail (ProductID)
ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Purchasing.iPurchaseOrderDetail ON Purchasing.PurchaseOrderDetail
AFTER INSERT AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;

    BEGIN TRY
        INSERT INTO [Production].[TransactionHistory]
            ([ProductID]
            ,[ReferenceOrderID]
            ,[ReferenceOrderLineID]
            ,[TransactionType]
            ,[TransactionDate]
            ,[Quantity]
            ,[ActualCost])
        SELECT
            inserted.[ProductID]
            ,inserted.[PurchaseOrderID]
            ,inserted.[PurchaseOrderDetailID]
            ,'P'
            ,GETDATE()
            ,inserted.[OrderQty]
            ,inserted.[UnitPrice]
        FROM inserted
        INNER JOIN [Purchasing].[PurchaseOrderHeader]
        ON inserted.[PurchaseOrderID] = [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID];

        -- Update SubTotal in PurchaseOrderHeader record. Note that this causes the
        -- PurchaseOrderHeader trigger to fire which will update the RevisionNumber.
        UPDATE [Purchasing].[PurchaseOrderHeader]
        SET [Purchasing].[PurchaseOrderHeader].[SubTotal] =
            (SELECT SUM([Purchasing].[PurchaseOrderDetail].[LineTotal])
            FROM [Purchasing].[PurchaseOrderDetail]
            WHERE [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID] = [Purchasing].[PurchaseOrderDetail].
            [PurchaseOrderID])
        WHERE [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID] IN (SELECT inserted.[PurchaseOrderID] FROM
        inserted);
    END TRY
    BEGIN CATCH
        EXECUTE [dbo].[uspPrintError];

        -- Rollback any active or uncommittable transactions before
        -- inserting information in the ErrorLog
        IF @@TRANCOUNT > 0
        BEGIN
            ROLLBACK TRANSACTION;
        END

        EXECUTE [dbo].[uspLogError];
    END CATCH;
END;
GO
CREATE OR ALTER TRIGGER Purchasing.uPurchaseOrderDetail ON Purchasing.PurchaseOrderDetail
AFTER UPDATE AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

```

```

SET NOCOUNT ON;

BEGIN TRY
  IF UPDATE([ProductID]) OR UPDATE([OrderQty]) OR UPDATE([UnitPrice])
  -- Insert record into TransactionHistory
  BEGIN
    INSERT INTO [Production].[TransactionHistory]
      ([ProductID]
      ,[ReferenceOrderID]
      ,[ReferenceOrderLineID]
      ,[TransactionType]
      ,[TransactionDate]
      ,[Quantity]
      ,[ActualCost])
    SELECT
      inserted.[ProductID]
      ,inserted.[PurchaseOrderID]
      ,inserted.[PurchaseOrderDetailID]
      ,'P'
      ,GETDATE()
      ,inserted.[OrderQty]
      ,inserted.[UnitPrice]
    FROM inserted
    INNER JOIN [Purchasing].[PurchaseOrderDetail]
      ON inserted.[PurchaseOrderID] = [Purchasing].[PurchaseOrderDetail].[PurchaseOrderID];

    -- Update SubTotal in PurchaseOrderHeader record. Note that this causes the
    -- PurchaseOrderHeader trigger to fire which will update the RevisionNumber.
    UPDATE [Purchasing].[PurchaseOrderHeader]
    SET [Purchasing].[PurchaseOrderHeader].[SubTotal] =
      (SELECT SUM([Purchasing].[PurchaseOrderDetail].[LineTotal])
      FROM [Purchasing].[PurchaseOrderDetail]
      WHERE [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID]
        = [Purchasing].[PurchaseOrderDetail].[PurchaseOrderID])
    WHERE [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID]
      IN (SELECT inserted.[PurchaseOrderID] FROM inserted);

    UPDATE [Purchasing].[PurchaseOrderDetail]
    SET [Purchasing].[PurchaseOrderDetail].[ModifiedDate] = GETDATE()
    FROM inserted
    WHERE inserted.[PurchaseOrderID] = [Purchasing].[PurchaseOrderDetail].[PurchaseOrderID]
      AND inserted.[PurchaseOrderDetailID] = [Purchasing].[PurchaseOrderDetail].[PurchaseOrderDetailID];
  END;
END TRY
BEGIN CATCH
  EXECUTE [dbo].[uspPrintError];

  -- Rollback any active or uncommittable transactions before
  -- inserting information in the ErrorLog
  IF @@TRANCOUNT > 0
  BEGIN
    ROLLBACK TRANSACTION;
  END





  EXECUTE [dbo].[uspLogError];
END CATCH;
GO




ALTER TABLE Purchasing.PurchaseOrderDetail
  ADD CONSTRAINT FK_PurchaseOrderDetail_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
    ProductID)
GO

ALTER TABLE Purchasing.PurchaseOrderDetail
  ADD CONSTRAINT FK_PurchaseOrderDetail_PurchaseOrderHeader_PurchaseOrderID FOREIGN KEY (PurchaseOrderID)
  REFERENCES Purchasing.PurchaseOrderHeader (PurchaseOrderID)
GO

```

## Depends On 7

-  Purchasing
-  Production.Product
-  Purchasing.PurchaseOrderHeader
-  Production.TransactionHistory

-  [dbo.uspPrintError](#)
-  [dbo.uspLogError](#)
-  AdventureWorks2022

## Used By

No items found









# Purchasing.PurchaseOrderHeader



## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	4012
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns


Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	PurchaseOrderID	int	4	10	0	True	1 - 1			False	False	
	RevisionNumber	tinyint	1	3	0	True			(0)	False	False	
	Status	tinyint	1	3	0	True			(1)	False	False	
	EmployeeID	int	4	10	0	True				False	False	
	VendorID	int	4	10	0	True				False	False	
	ShipMethodID	int	4	10	0	True				False	False	
	OrderDate	datetime	8	23	3	True			(getdate())	False	False	
	ShipDate	datetime	8	23	3	False				False	False	
	SubTotal	money	8	19	4	True			(0.00)	False	False	

	TaxAmt	money	8	19	4	True			(0.00)	False	False	
	Freight	money	8	19	4	True			(0.00)	False	False	
	TotalDue	money	8	19	4	True				True	True	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
TotalDue	(isnull(((SubTotal)+[TaxAmt])+[Freight],0))

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_PurchaseOrderHeader_EmployeeID	EmployeeID	False		
	IX_PurchaseOrderHeader_VendorID	VendorID	False		
	PK_PurchaseOrderHeader_PurchaseOrderID	PurchaseOrderID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
uPurchaseOrderHeader	True	True	AFTER UPDATE	False	

## Check Constraints

Name	Columns	Condition	Description
CK_PurchaseOrderHeader_Freight	Freight	([Freight]>=(0.00))	
CK_PurchaseOrderHeader_ShipDate	ShipDate, OrderDate	([ShipDate]>=[OrderDate] OR [ShipDate] IS NULL)	
CK_PurchaseOrderHeader_Status	Status	([Status]>=(1) AND [Status]<=(4))	
CK_PurchaseOrderHeader_SubTotal	SubTotal	([SubTotal]>=(0.00))	
CK_PurchaseOrderHeader_TaxAmt	TaxAmt	([TaxAmt]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_PurchaseOrderHeader_Employee_EmployeeID	BusinessEntityID	
FK_PurchaseOrderHeader_ShipMethod_ShipMethodID	ShipMethodID	
FK_PurchaseOrderHeader_Vendor_VendorID	BusinessEntityID	

## SQL Script

```

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE Purchasing.PurchaseOrderHeader (
    PurchaseOrderID int IDENTITY,
    RevisionNumber tinyint NOT NULL CONSTRAINT DF_PurchaseOrderHeader_RevisionNumber DEFAULT (0),
    Status tinyint NOT NULL CONSTRAINT DF_PurchaseOrderHeader_Status DEFAULT (1),
    EmployeeID int NOT NULL,

```

```

VendorID int NOT NULL,
ShipMethodID int NOT NULL,
OrderDate datetime NOT NULL CONSTRAINT DF_PurchaseOrderHeader_OrderDate DEFAULT (getdate()),
ShipDate datetime NULL,
SubTotal money NOT NULL CONSTRAINT DF_PurchaseOrderHeader_SubTotal DEFAULT (0.00),
TaxAmt money NOT NULL CONSTRAINT DF_PurchaseOrderHeader_TaxAmt DEFAULT (0.00),
Freight money NOT NULL CONSTRAINT DF_PurchaseOrderHeader_Freight DEFAULT (0.00),
TotalDue AS (isnull([SubTotal]+[TaxAmt]+[Freight],(0))) PERSISTED NOT NULL,
ModifiedDate datetime NOT NULL CONSTRAINT DF_PurchaseOrderHeader_ModifiedDate DEFAULT (getdate()),
CONSTRAINT PK_PurchaseOrderHeader_PurchaseOrderID PRIMARY KEY CLUSTERED (PurchaseOrderID),
CONSTRAINT CK_PurchaseOrderHeader_Freight CHECK ([Freight]>=(0.00)),
CONSTRAINT CK_PurchaseOrderHeader_ShipDate CHECK ([ShipDate]>=[OrderDate] OR [ShipDate] IS NULL),
CONSTRAINT CK_PurchaseOrderHeader_Status CHECK ([Status]>=(1) AND [Status]<=(4)),
CONSTRAINT CK_PurchaseOrderHeader_SubTotal CHECK ([SubTotal]>=(0.00)),
CONSTRAINT CK_PurchaseOrderHeader_TaxAmt CHECK ([TaxAmt]>=(0.00))
)
ON [PRIMARY]
GO

CREATE INDEX IX_PurchaseOrderHeader_EmployeeID
ON Purchasing.PurchaseOrderHeader (EmployeeID)
ON [PRIMARY]
GO

CREATE INDEX IX_PurchaseOrderHeader_VendorID
ON Purchasing.PurchaseOrderHeader (VendorID)
ON [PRIMARY]
GO

SET ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Purchasing.uPurchaseOrderHeader ON Purchasing.PurchaseOrderHeader
AFTER UPDATE AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;

    BEGIN TRY
        -- Update RevisionNumber for modification of any field EXCEPT the Status.
        IF NOT UPDATE([Status])
            BEGIN
                UPDATE [Purchasing].[PurchaseOrderHeader]
                SET [Purchasing].[PurchaseOrderHeader].[RevisionNumber] =
                    [Purchasing].[PurchaseOrderHeader].[RevisionNumber] + 1
                WHERE [Purchasing].[PurchaseOrderHeader].[PurchaseOrderID] IN
                    (SELECT inserted.[PurchaseOrderID] FROM inserted);
            END;
        END TRY
    BEGIN CATCH
        EXECUTE [dbo].[uspPrintError];

        -- Rollback any active or uncommittable transactions before
        -- inserting information in the ErrorLog
        IF @@TRANCOUNT > 0
            BEGIN
                ROLLBACK TRANSACTION;
            END

        EXECUTE [dbo].[uspLogError];
    END CATCH;
END;
GO

ALTER TABLE Purchasing.PurchaseOrderHeader
ADD CONSTRAINT FK_PurchaseOrderHeader_Employee_EmployeeID FOREIGN KEY (EmployeeID) REFERENCES HumanResources.
Employee (BusinessEntityID)
GO

ALTER TABLE Purchasing.PurchaseOrderHeader
ADD CONSTRAINT FK_PurchaseOrderHeader_ShipMethod_ShipMethodID FOREIGN KEY (ShipMethodID) REFERENCES Purchasing.
ShipMethod (ShipMethodID)
GO








ALTER TABLE Purchasing.PurchaseOrderHeader

```

```
ADD CONSTRAINT FK_PurchaseOrderHeader_Vendor_VendorID FOREIGN KEY (VendorID) REFERENCES Purchasing.Vendor (BusinessEntityID)
```

GO

## Depends On 7

-  Purchasing
-  HumanResources.Employee
-  Purchasing.ShipMethod
-  Purchasing.Vendor
-  dbo.uspPrintError
-  dbo.uspLogError
-  AdventureWorks2022

## Used By 1

-  Purchasing.PurchaseOrderDetail








# Purchasing.ShipMethod

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	5
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ShipMethodID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ShipBase	money	8	19	4	True			(0.00)	False	False	
	ShipRate	money	8	19	4	True			(0.00)	False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_ShipMethod_Name	Name	True		
	AK_ShipMethod_rowguid	rowguid	True		

	PK_ShipMethod_ShipMethodID	ShipMethodID	True		
--	----------------------------	--------------	------	--	--

## Check Constraints

Name	Columns	Condition	Description
CK_ShipMethod_ShipBase	ShipBase	((ShipBase)>(0.00))	
CK_ShipMethod_ShipRate	ShipRate	((ShipRate)>(0.00))	

## SQL Script

```




CREATE TABLE Purchasing.ShipMethod (
  ShipMethodID int IDENTITY,
  Name dbo.Name NOT NULL,
  ShipBase money NOT NULL CONSTRAINT DF_ShipMethod_ShipBase DEFAULT (0.00),
  ShipRate money NOT NULL CONSTRAINT DF_ShipMethod_ShipRate DEFAULT (0.00),
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_ShipMethod_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ShipMethod_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ShipMethod_ShipMethodID PRIMARY KEY CLUSTERED (ShipMethodID),
  CONSTRAINT CK_ShipMethod_ShipBase CHECK ([ShipBase]>(0.00)),
  CONSTRAINT CK_ShipMethod_ShipRate CHECK ([ShipRate]>(0.00))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_ShipMethod_Name
ON Purchasing.ShipMethod (Name)
ON [PRIMARY]
GO



CREATE UNIQUE INDEX AK_ShipMethod_rowguid
ON Purchasing.ShipMethod (rowguid)
ON [PRIMARY]
GO

```

## Depends On 3

-  Purchasing
-  dbo.Name
-  AdventureWorks2022

## Used By 2

-  Purchasing.PurchaseOrderHeader
-  Sales.SalesOrderHeader




# Purchasing.Vendor

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	104
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	AccountNumber	dbo.AccountNumber	15	0	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	CreditRating	tinyint	1	3	0	True				False	False	
	PreferredVendorStatus	dbo.Flag	1	1	0	True			(1)	False	False	
	ActiveFlag	dbo.Flag	1	1	0	True			(1)	False	False	
	PurchasingWebServiceURL	nvarchar	1024	0	0	False				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Vendor_AccountNumber	AccountNumber	True		

	PK_Vendor_BusinessEntityID	BusinessEntityID	True		
--	----------------------------	------------------	------	--	--

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
dVendor	True	True	INSTEAD OF DELETE	True	

## Check Constraints

Name	Columns	Condition	Description
CK_Vendor_CreditRating	CreditRating	[(CreditRating)>=(1) AND [CreditRating]<=(5)]	

## Foreign Keys

Name	Columns	Description
FK_Vendor_BusinessEntity_BusinessEntityID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Purchasing.Vendor (
    BusinessEntityID int NOT NULL,
    AccountNumber dbo.AccountNumber NOT NULL,
    Name dbo.Name NOT NULL,
    CreditRating tinyint NOT NULL,
    PreferredVendorStatus dbo.Flag NOT NULL CONSTRAINT DF_Vendor_PREFERREDVendorStatus DEFAULT (1),
    ActiveFlag dbo.Flag NOT NULL CONSTRAINT DF_Vendor_ActiveFlag DEFAULT (1),
    PurchasingWebServiceURL nvarchar(1024) NULL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_Vendor_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_Vendor_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID),
    CONSTRAINT CK_Vendor_CreditRating CHECK ([CreditRating]>=(1) AND [CreditRating]<=(5))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Vendor_AccountNumber
ON Purchasing.Vendor (AccountNumber)
ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Purchasing.dVendor ON Purchasing.Vendor
INSTEAD OF DELETE NOT FOR REPLICATION AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;

    BEGIN TRY
        DECLARE @DeleteCount int;

        SELECT @DeleteCount = COUNT(*) FROM deleted;
        IF @DeleteCount > 0
            BEGIN
                RAISERROR
                (N'Vendors cannot be deleted. They can only be marked as not active.', -- Message
                10, -- Severity.
                1); -- State.

                -- Rollback any active or uncommittable transactions
                IF @@TRANCOUNT > 0
                    BEGIN
                        ROLLBACK TRANSACTION;
                    END
            END;
    END TRY
    BEGIN CATCH

```









```
EXECUTE [dbo].[uspPrintError];

-- Rollback any active or uncommittable transactions before
-- inserting information in the ErrorLog
IF @@TRANCOUNT > 0
BEGIN
    ROLLBACK TRANSACTION;
END






EXECUTE [dbo].[uspLogError];
END CATCH;
END;
GO

ALTER TABLE Purchasing.Vendor
ADD CONSTRAINT FK_Vendor_BusinessEntity_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.
BusinessEntity (BusinessEntityID)
GO
```

## Depends On 6

-  Purchasing
-  Person.BusinessEntity
-  dbo.AccountNumber
-  dbo.Name
-  dbo.Flag
-  dbo.uspPrintError
-  dbo.uspLogError
-  AdventureWorks2022

## Used By 5

-  Purchasing.ProductVendor
-  Purchasing.PurchaseOrderHeader
-  Purchasing.vVendorWithAddresses
-  Purchasing.vVendorWithContacts
-  dbo.ufnGetContactInformation








# Sales.CountryRegionCurrency

## Description



## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	109
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	CountryRegionCode	nvarchar	3	0	0	True				False	False	
   	CurrencyCode	nchar	3	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_CountryRegionCurrency_CurrencyCode	CurrencyCode	False		
 	PK_CountryRegionCurrency_CountryRegionCode_CurrencyCode	CountryRegionCode, CurrencyCode	True		

## Foreign Keys

Name	Columns	Description
FK_CountryRegionCurrency_CountryRegion_CountryRegionCode	CountryRegionCode	
FK_CountryRegionCurrency_Currency_CurrencyCode	CurrencyCode	

## SQL Script

```
CREATE TABLE Sales.CountryRegionCurrency (  
    CountryRegionCode nvarchar(3) NOT NULL,  
    CurrencyCode nchar(3) NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_CountryRegionCurrency_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_CountryRegionCurrency_CountryRegionCode_CurrencyCode PRIMARY KEY CLUSTERED (CountryRegionCode,  
    CurrencyCode)  
)  
ON [PRIMARY]  
GO  
  
CREATE INDEX IX_CountryRegionCurrency_CurrencyCode  
ON Sales.CountryRegionCurrency (CurrencyCode)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Sales.CountryRegionCurrency  
ADD CONSTRAINT FK_CountryRegionCurrency_CountryRegion_CountryRegionCode FOREIGN KEY (CountryRegionCode)  
REFERENCES Person.CountryRegion (CountryRegionCode)  
GO  
  
ALTER TABLE Sales.CountryRegionCurrency  
ADD CONSTRAINT FK_CountryRegionCurrency_Currency_CurrencyCode FOREIGN KEY (CurrencyCode) REFERENCES Sales.  
Currency (CurrencyCode)  
GO
```

## Depends On 4



Sales



Person.CountryRegion



Sales.Currency



AdventureWorks2022

## Used By

No items found



# Sales.CreditCard

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19118
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CreditCardID	int	4	10	0	True	1 - 1			False	False	
	CardType	nvarchar	50	0	0	True				False	False	
	CardNumber	nvarchar	25	0	0	True				False	False	
	ExpMonth	tinyint	1	3	0	True				False	False	
	ExpYear	smallint	2	5	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_CreditCard_CardNumber	CardNumber	True		



	PK_CreditCard_CreditCardID	CreditCardID	True		
--	----------------------------	--------------	------	--	--

## SQL Script

```
CREATE TABLE Sales.CreditCard (  
    CreditCardID int IDENTITY,  
    CardType nvarchar(50) NOT NULL,  
    CardNumber nvarchar(25) NOT NULL,  
    ExpMonth tinyint NOT NULL,  
    ExpYear smallint NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_CreditCard_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_CreditCard_CreditCardID PRIMARY KEY CLUSTERED (CreditCardID)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_CreditCard_CardNumber  
ON Sales.CreditCard (CardNumber)  
ON [PRIMARY]  
GO
```

## Depends On <sup>2</sup>



 AdventureWorks2022

## Used By <sup>2</sup>

 Sales.PersonCreditCard

 Sales.SalesOrderHeader



# Sales.Currency

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	105
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CurrencyCode	nchar	3	0	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Currency_Name	Name	True		
	PK_Currency_CurrencyCode	CurrencyCode	True		

## SQL Script

```
CREATE TABLE Sales.Currency (  
    CurrencyCode nchar(3) NOT NULL,
```

```
Name dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_Currency_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_Currency_CurrencyCode PRIMARY KEY CLUSTERED (CurrencyCode)  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_Currency_Name  
ON Sales.Currency (Name)  
ON [PRIMARY]  
GO
```

## Depends On 3

 Sales

 dbo.Name

 AdventureWorks2022

## Used By 2

 Sales.CountryRegionCurrency

 Sales.CurrencyRate





# Sales.CurrencyRate

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	13532
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CurrencyRateID	int	4	10	0	True	1 - 1			False	False	
	CurrencyRateDate	datetime	8	23	3	True				False	False	
	FromCurrencyCode	nchar	3	0	0	True				False	False	
	ToCurrencyCode	nchar	3	0	0	True				False	False	
	AverageRate	money	8	19	4	True				False	False	
	EndOfDayRate	money	8	19	4	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------

	AK_CurrencyRate_CurrencyRateDate_FromCurrencyCode_ToCurrencyCode	CurrencyRateDate, FromCurrencyCode, ToCurrencyCode	True		
	PK_CurrencyRate_CurrencyRateID	CurrencyRateID	True		

## Foreign Keys

Name	Columns	Description
FK_CurrencyRate_Currency_FromCurrencyCode	CurrencyCode	
FK_CurrencyRate_Currency_ToCurrencyCode	CurrencyCode	

## SQL Script

```

CREATE TABLE Sales.CurrencyRate (
  CurrencyRateID int IDENTITY,
  CurrencyRateDate datetime NOT NULL,
  FromCurrencyCode nchar(3) NOT NULL,
  ToCurrencyCode nchar(3) NOT NULL,
  AverageRate money NOT NULL,
  EndOfDayRate money NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_CurrencyRate_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_CurrencyRate_CurrencyRateID PRIMARY KEY CLUSTERED (CurrencyRateID)
)
ON [PRIMARY]
GO




CREATE UNIQUE INDEX AK_CurrencyRate_CurrencyRateDate_FromCurrencyCode_ToCurrencyCode
  ON Sales.CurrencyRate (CurrencyRateDate, FromCurrencyCode, ToCurrencyCode)
  ON [PRIMARY]
GO

ALTER TABLE Sales.CurrencyRate
  ADD CONSTRAINT FK_CurrencyRate_Currency_FromCurrencyCode FOREIGN KEY (FromCurrencyCode) REFERENCES Sales.Currency
  (CurrencyCode)
GO

ALTER TABLE Sales.CurrencyRate
  ADD CONSTRAINT FK_CurrencyRate_Currency_ToCurrencyCode FOREIGN KEY (ToCurrencyCode) REFERENCES Sales.Currency (
  CurrencyCode)
GO

```

## Depends On 3

-  Sales
-  Sales.Currency
-  AdventureWorks2022

## Used By 1

-  Sales.SalesOrderHeader







# Sales.Customer

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19820
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns


Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	CustomerID	int	4	10	0	True	1 - 1			False	False	
	PersonID	int	4	10	0	False				False	False	
	StoreID	int	4	10	0	False				False	False	
	TerritoryID	int	4	10	0	False				False	False	
	AccountNumber	varchar	10	0	0	True				True	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
------	------------

AccountNumber	(isnull('AW'+[dbo].[ufnLeadingZeros]([CustomerID]),''))
---------------	---

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Customer_AccountNumber	AccountNumber	True		
	AK_Customer_rowguid	rowguid	True		
	IX_Customer_TerritoryID	TerritoryID	False		
	PK_Customer_CustomerID	CustomerID	True		

## Foreign Keys

Name	Columns	Description
FK_Customer_Person_PersonID	BusinessEntityID	
FK_Customer_SalesTerritory_TerritoryID	TerritoryID	
FK_Customer_Store_StoreID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Sales.Customer (
  CustomerID int IDENTITY NOT FOR REPLICATION,
  PersonID int NULL,
  StoreID int NULL,
  TerritoryID int NULL,
  AccountNumber AS (isnull('AW'+[dbo].[ufnLeadingZeros]([CustomerID]),'')),
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Customer_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_Customer_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_Customer_CustomerID PRIMARY KEY CLUSTERED (CustomerID)
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Customer_AccountNumber
ON Sales.Customer (AccountNumber)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_Customer_rowguid
ON Sales.Customer (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_Customer_TerritoryID
ON Sales.Customer (TerritoryID)
ON [PRIMARY]
GO

ALTER TABLE Sales.Customer
ADD CONSTRAINT FK_Customer_Person_PersonID FOREIGN KEY (PersonID) REFERENCES Person.Person (BusinessEntityID)
GO





ALTER TABLE Sales.Customer
ADD CONSTRAINT FK_Customer_SalesTerritory_TerritoryID FOREIGN KEY (TerritoryID) REFERENCES Sales.SalesTerritory (
TerritoryID)
GO

ALTER TABLE Sales.Customer
ADD CONSTRAINT FK_Customer_Store_StoreID FOREIGN KEY (StoreID) REFERENCES Sales.Store (BusinessEntityID)
GO





```

## Depends On 6



-  Sales.SalesTerritory
-  Sales.Store
-  dbo.ufnLeadingZeros
-  AdventureWorks2022

## Used By 4

-  Sales.SalesOrderDetail
-  Sales.SalesOrderHeader
-  Sales.vIndividualCustomer
-  dbo.ufnGetContactInformation







# Sales.PersonCreditCard

## Description



## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	19118
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:38

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
 	BusinessEntityID	int	4	10	0	True				False	False	
 	CreditCardID	int	4	10	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
 	PK_PersonCreditCard_BusinessEntityID_CreditCardID	BusinessEntityID, CreditCardID	True		

## Foreign Keys

Name	Columns	Description
FK_PersonCreditCard_CreditCard_CreditCardID	CreditCardID	
FK_PersonCreditCard_Person_BusinessEntityID	BusinessEntityID	

## SQL Script

```
CREATE TABLE Sales.PersonCreditCard (  
    BusinessEntityID int NOT NULL,  
    CreditCardID int NOT NULL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_PersonCreditCard_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_PersonCreditCard_BusinessEntityID_CreditCardID PRIMARY KEY CLUSTERED (BusinessEntityID,  
    CreditCardID)  
)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Sales.PersonCreditCard  
    ADD CONSTRAINT FK_PersonCreditCard_CreditCard_CreditCardID FOREIGN KEY (CreditCardID) REFERENCES Sales.CreditCard  
    (CreditCardID)  
GO  
  
ALTER TABLE Sales.PersonCreditCard  
    ADD CONSTRAINT FK_PersonCreditCard_Person_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.  
    Person (BusinessEntityID)  
GO
```

## Depends On 3



Sales



Person.Person



Sales.CreditCard

## Used By

No items found








# Sales.SalesOrderDetail

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	121317
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns


Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SalesOrderID	int	4	10	0	True				False	False	
	SalesOrderDetailID	int	4	10	0	True	1 - 1			False	False	
	CarrierTrackingNumber	nvarchar	25	0	0	False				False	False	
	OrderQty	smallint	2	5	0	True				False	False	
	ProductID	int	4	10	0	True				False	False	
	SpecialOfferID	int	4	10	0	True				False	False	
	UnitPrice	money	8	19	4	True				False	False	
	UnitPriceDiscount	money	8	19	4	True			(0.0)	False	False	
	LineTotal	numeric	17	38	6	True				True	False	

	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
LineTotal	(isnull(([UnitPrice]*((1.0)-[UnitPriceDiscount]))*[OrderQty],(0.0)))

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesOrderDetail_rowguid	rowguid	True		
	IX_SalesOrderDetail_ProductID	ProductID	False		
	PK_SalesOrderDetail_SalesOrderID_SalesOrderDetailID	SalesOrderID, SalesOrderDetailID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
iduSalesOrderDetail	True	True	AFTER INSERT, UPDATE, DELETE	False	

## Check Constraints

Name	Columns	Condition	Description
CK_SalesOrderDetail_OrderQty	OrderQty	([OrderQty]>(0))	
CK_SalesOrderDetail_UnitPrice	UnitPrice	([UnitPrice]>=(0.00))	
CK_SalesOrderDetail_UnitPriceDiscount	UnitPriceDiscount	([UnitPriceDiscount]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_SalesOrderDetail_SalesOrderHeader_SalesOrderID	SalesOrderID	
FK_SalesOrderDetail_SpecialOfferProduct_SpecialOfferIDProductID	SpecialOfferID, ProductID	

## SQL Script

```
CREATE TABLE Sales.SalesOrderDetail (
  SalesOrderID int NOT NULL,
  SalesOrderDetailID int IDENTITY,
  CarrierTrackingNumber nvarchar(25) NULL,
  OrderQty smallint NOT NULL,
  ProductID int NOT NULL,
  SpecialOfferID int NOT NULL,
  UnitPrice money NOT NULL,
  UnitPriceDiscount money NOT NULL CONSTRAINT DF_SalesOrderDetail_UnitPriceDiscount DEFAULT (0.0),
  LineTotal AS (isnull(([UnitPrice]*((1.0)-[UnitPriceDiscount]))*[OrderQty],(0.0))),
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesOrderDetail_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesOrderDetail_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SalesOrderDetail_SalesOrderID_SalesOrderDetailID PRIMARY KEY CLUSTERED (SalesOrderID,
  SalesOrderDetailID),
  CONSTRAINT CK_SalesOrderDetail_OrderQty CHECK ([OrderQty]>(0)),
  CONSTRAINT CK_SalesOrderDetail_UnitPrice CHECK ([UnitPrice]>=(0.00)),
  CONSTRAINT CK_SalesOrderDetail_UnitPriceDiscount CHECK ([UnitPriceDiscount]>=(0.00))
)
ON [PRIMARY]
```

```

GO

CREATE UNIQUE INDEX AK_SalesOrderDetail_rowguid
ON Sales.SalesOrderDetail (rowguid)
ON [PRIMARY]
GO

CREATE INDEX IX_SalesOrderDetail_ProductID
ON Sales.SalesOrderDetail (ProductID)
ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Sales.iduSalesOrderDetail ON Sales.SalesOrderDetail
AFTER INSERT, DELETE, UPDATE AS
BEGIN
    DECLARE @Count int;

    SET @Count = @@ROWCOUNT;
    IF @Count = 0
        RETURN;

    SET NOCOUNT ON;

    BEGIN TRY
        -- If inserting or updating these columns
        IF UPDATE([ProductID]) OR UPDATE([OrderQty]) OR UPDATE([UnitPrice]) OR UPDATE([UnitPriceDiscount])
        -- Insert record into TransactionHistory
        BEGIN
            INSERT INTO [Production].[TransactionHistory]
            ([ProductID]
            ,[ReferenceOrderID]
            ,[ReferenceOrderLineID]
            ,[TransactionType]
            ,[TransactionDate]
            ,[Quantity]
            ,[ActualCost])
            SELECT
                inserted.[ProductID]
                ,inserted.[SalesOrderID]
                ,inserted.[SalesOrderDetailID]
                ,'S'
                ,GETDATE()
                ,inserted.[OrderQty]
                ,inserted.[UnitPrice]
            FROM inserted
            INNER JOIN [Sales].[SalesOrderHeader]
            ON inserted.[SalesOrderID] = [Sales].[SalesOrderHeader].[SalesOrderID];

            UPDATE [Person].[Person]
            SET [Demographics].modify('declare default element namespace
            "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey";
            replace value of (/IndividualSurvey/TotalPurchaseYTD)[1]
            with data(/IndividualSurvey/TotalPurchaseYTD)[1] + sql:column ("inserted.LineTotal")')
            FROM inserted
            INNER JOIN [Sales].[SalesOrderHeader] AS SOH
            ON inserted.[SalesOrderID] = SOH.[SalesOrderID]
            INNER JOIN [Sales].[Customer] AS C
            ON SOH.[CustomerID] = C.[CustomerID]
            WHERE C.[PersonID] = [Person].[Person].[BusinessEntityID];
        END;

        -- Update SubTotal in SalesOrderHeader record. Note that this causes the
        -- SalesOrderHeader trigger to fire which will update the RevisionNumber.
        UPDATE [Sales].[SalesOrderHeader]
        SET [Sales].[SalesOrderHeader].[SubTotal] =
            (SELECT SUM([Sales].[SalesOrderDetail].[LineTotal])
            FROM [Sales].[SalesOrderDetail]
            WHERE [Sales].[SalesOrderHeader].[SalesOrderID] = [Sales].[SalesOrderDetail].[SalesOrderID])
        WHERE [Sales].[SalesOrderHeader].[SalesOrderID] IN (SELECT inserted.[SalesOrderID] FROM inserted);

        UPDATE [Person].[Person]
        SET [Demographics].modify('declare default element namespace
            "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey";
            replace value of (/IndividualSurvey/TotalPurchaseYTD)[1]
            with data(/IndividualSurvey/TotalPurchaseYTD)[1] - sql:column("deleted.LineTotal")')
        FROM deleted
            INNER JOIN [Sales].[SalesOrderHeader]

```

```

        ON deleted.[SalesOrderID] = [Sales].[SalesOrderHeader].[SalesOrderID]
    INNER JOIN [Sales].[Customer]
    ON [Sales].[Customer].[CustomerID] = [Sales].[SalesOrderHeader].[CustomerID]
WHERE [Sales].[Customer].[PersonID] = [Person].[Person].[BusinessEntityID];
END TRY
BEGIN CATCH
    EXECUTE [dbo].[uspPrintError];

    -- Rollback any active or uncommittable transactions before
    -- inserting information in the ErrorLog
    IF @@TRANCOUNT > 0
    BEGIN
        ROLLBACK TRANSACTION;
    END










    EXECUTE [dbo].[uspLogError];
END CATCH;
END;
GO

ALTER TABLE Sales.SalesOrderDetail
    ADD CONSTRAINT FK_SalesOrderDetail_SalesOrderHeader_SalesOrderID FOREIGN KEY (SalesOrderID) REFERENCES Sales.SalesOrderHeader (SalesOrderID) ON DELETE CASCADE
GO

ALTER TABLE Sales.SalesOrderDetail
    ADD CONSTRAINT FK_SalesOrderDetail_SpecialOfferProduct_SpecialOfferIDProductID FOREIGN KEY (SpecialOfferID, ProductID) REFERENCES Sales.SpecialOfferProduct (SpecialOfferID, ProductID)
GO

```

## Depends On 9

-  Sales
-  Sales.SalesOrderHeader
-  Sales.SpecialOfferProduct
-  Production.TransactionHistory
-  Person.Person
-  Sales.Customer
-  dbo.uspPrintError
-  dbo.uspLogError
-  AdventureWorks2022

## Used By

No items found







# Sales.SalesOrderHeader













## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	31465
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns


Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SalesOrderID	int	4	10	0	True	1 - 1			False	False	
	RevisionNumber	tinyint	1	3	0	True			(0)	False	False	
	OrderDate	datetime	8	23	3	True			(getdate())	False	False	
	DueDate	datetime	8	23	3	True				False	False	
	ShipDate	datetime	8	23	3	False				False	False	
	Status	tinyint	1	3	0	True			(1)	False	False	
	OnlineOrderFlag	dbo.Flag	1	1	0	True			(1)	False	False	
	SalesOrderNumber	nvarchar	25	0	0	True				True	False	
	PurchaseOrderNumber	dbo.OrderNumber	25	0	0	False				False	False	
	AccountNumber	dbo.AccountNumber	15	0	0	False				False	False	

	CustomerID	int	4	10	0	True				False	False	
	SalesPersonID	int	4	10	0	False				False	False	
	TerritoryID	int	4	10	0	False				False	False	
	BillToAddressID	int	4	10	0	True				False	False	
	ShipToAddressID	int	4	10	0	True				False	False	
	ShipMethodID	int	4	10	0	True				False	False	
	CreditCardID	int	4	10	0	False				False	False	
	CreditCardApprovalCode	varchar	15	0	0	False				False	False	
	CurrencyRateID	int	4	10	0	False				False	False	
	SubTotal	money	8	19	4	True			(0.00)	False	False	
	TaxAmt	money	8	19	4	True			(0.00)	False	False	
	Freight	money	8	19	4	True			(0.00)	False	False	
	TotalDue	money	8	19	4	True				True	False	
	Comment	nvarchar	128	0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Computed Columns

Name	Definition
SalesOrderNumber	(isnull(N'SO'+CONVERT([nvarchar](23),[SalesOrderID]),N'*** ERROR ***'))
TotalDue	(isnull(([SubTotal]+[TaxAmt])+[Freight],(0)))

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesOrderHeader_rowguid	rowguid	True		
	AK_SalesOrderHeader_SalesOrderNumber	SalesOrderNumber	True		
	IX_SalesOrderHeader_CustomerID	CustomerID	False		
	IX_SalesOrderHeader_SalesPersonID	SalesPersonID	False		
	PK_SalesOrderHeader_SalesOrderID	SalesOrderID	True		

## Triggers

Name	ANSI Nulls ON	Quoted Identifier ON	On	Not For Replication	Description
uSalesOrderHeader	True	True	AFTER UPDATE	True	

## Check Constraints

Name	Columns	Condition	Description
CK_SalesOrderHeader_DueDate	DueDate, OrderDate	([DueDate]>=[OrderDate])	
CK_SalesOrderHeader_Freight	Freight	([Freight]>=(0.00))	



CK_SalesOrderHeader_ShipDate	ShipDate, OrderDate	(([ShipDate]>=[OrderDate] OR [ShipDate] IS NULL)	
CK_SalesOrderHeader_Status	Status	(([Status]>=(0) AND [Status]<=(8))	
CK_SalesOrderHeader_SubTotal	SubTotal	(([SubTotal]>=(0.00))	
CK_SalesOrderHeader_TaxAmt	TaxAmt	(([TaxAmt]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_SalesOrderHeader_Address_BillToAddressID	AddressID	
FK_SalesOrderHeader_Address_ShipToAddressID	AddressID	
FK_SalesOrderHeader_CreditCard_CreditCardID	CreditCardID	
FK_SalesOrderHeader_CurrencyRate_CurrencyRateID	CurrencyRateID	
FK_SalesOrderHeader_Customer_CustomerID	CustomerID	
FK_SalesOrderHeader_SalesPerson_SalesPersonID	BusinessEntityID	
FK_SalesOrderHeader_SalesTerritory_TerritoryID	TerritoryID	
FK_SalesOrderHeader_ShipMethod_ShipMethodID	ShipMethodID	

## SQL Script

```

CREATE TABLE Sales.SalesOrderHeader (
    SalesOrderID int IDENTITY NOT FOR REPLICATION,
    RevisionNumber tinyint NOT NULL CONSTRAINT DF_SalesOrderHeader_RevisionNumber DEFAULT (0),
    OrderDate datetime NOT NULL CONSTRAINT DF_SalesOrderHeader_OrderDate DEFAULT (getdate()),
    DueDate datetime NOT NULL,
    ShipDate datetime NULL,
    Status tinyint NOT NULL CONSTRAINT DF_SalesOrderHeader_Status DEFAULT (1),
    OnlineOrderFlag dbo.Flag NOT NULL CONSTRAINT DF_SalesOrderHeader_OnlineOrderFlag DEFAULT (1),
    SalesOrderNumber AS (isnull(N'SO'+CONVERT([nvarchar](23),[SalesOrderID]),N'*** ERROR ***')),
    PurchaseOrderNumber dbo.OrderNumber NULL,
    AccountNumber dbo.AccountNumber NULL,
    CustomerID int NOT NULL,
    SalesPersonID int NULL,
    TerritoryID int NULL,
    BillToAddressID int NOT NULL,
    ShipToAddressID int NOT NULL,
    ShipMethodID int NOT NULL,
    CreditCardID int NULL,
    CreditCardApprovalCode varchar(15) NULL,
    CurrencyRateID int NULL,
    SubTotal money NOT NULL CONSTRAINT DF_SalesOrderHeader_SubTotal DEFAULT (0.00),
    TaxAmt money NOT NULL CONSTRAINT DF_SalesOrderHeader_TaxAmt DEFAULT (0.00),
    Freight money NOT NULL CONSTRAINT DF_SalesOrderHeader_Freight DEFAULT (0.00),
    TotalDue AS (isnull(([SubTotal]+[TaxAmt])+[Freight],(0))),
    Comment nvarchar(128) NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesOrderHeader_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesOrderHeader_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_SalesOrderHeader_SalesOrderID PRIMARY KEY CLUSTERED (SalesOrderID),
    CONSTRAINT CK_SalesOrderHeader_DueDate CHECK ([DueDate]>=[OrderDate]),
    CONSTRAINT CK_SalesOrderHeader_Freight CHECK ([Freight]>=(0.00)),
    CONSTRAINT CK_SalesOrderHeader_ShipDate CHECK ([ShipDate]>=[OrderDate] OR [ShipDate] IS NULL),
    CONSTRAINT CK_SalesOrderHeader_Status CHECK ([Status]>=(0) AND [Status]<=(8)),
    CONSTRAINT CK_SalesOrderHeader_SubTotal CHECK ([SubTotal]>=(0.00)),
    CONSTRAINT CK_SalesOrderHeader_TaxAmt CHECK ([TaxAmt]>=(0.00))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesOrderHeader_rowguid
ON Sales.SalesOrderHeader (rowguid)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesOrderHeader_SalesOrderNumber
ON Sales.SalesOrderHeader (SalesOrderNumber)
ON [PRIMARY]

```

```

GO

CREATE INDEX IX_SalesOrderHeader_CustomerID
  ON Sales.SalesOrderHeader (CustomerID)
  ON [PRIMARY]
GO

CREATE INDEX IX_SalesOrderHeader_SalesPersonID
  ON Sales.SalesOrderHeader (SalesPersonID)
  ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER Sales.uSalesOrderHeader ON Sales.SalesOrderHeader
AFTER UPDATE NOT FOR REPLICATION AS
BEGIN
  DECLARE @Count int;

  SET @Count = @@ROWCOUNT;
  IF @Count = 0
    RETURN;

  SET NOCOUNT ON;

  BEGIN TRY
    -- Update RevisionNumber for modification of any field EXCEPT the Status.
    IF NOT UPDATE([Status])
      BEGIN
        UPDATE [Sales].[SalesOrderHeader]
        SET [Sales].[SalesOrderHeader].[RevisionNumber] =
          [Sales].[SalesOrderHeader].[RevisionNumber] + 1
        WHERE [Sales].[SalesOrderHeader].[SalesOrderID] IN
          (SELECT inserted.[SalesOrderID] FROM inserted);
      END;

    -- Update the SalesPerson SalesYTD when SubTotal is updated
    IF UPDATE([SubTotal])
      BEGIN
        DECLARE @StartDate datetime,
              @EndDate datetime

        SET @StartDate = [dbo].[ufnGetAccountingStartDate]();
        SET @EndDate = [dbo].[ufnGetAccountingEndDate]();

        UPDATE [Sales].[SalesPerson]
        SET [Sales].[SalesPerson].[SalesYTD] =
          (SELECT SUM([Sales].[SalesOrderHeader].[SubTotal])
           FROM [Sales].[SalesOrderHeader]
           WHERE [Sales].[SalesPerson].[BusinessEntityID] = [Sales].[SalesOrderHeader].[SalesPersonID]
              AND ([Sales].[SalesOrderHeader].[Status] = 5) -- Shipped
              AND [Sales].[SalesOrderHeader].[OrderDate] BETWEEN @StartDate AND @EndDate)
        WHERE [Sales].[SalesPerson].[BusinessEntityID]
          IN (SELECT DISTINCT inserted.[SalesPersonID] FROM inserted
             WHERE inserted.[OrderDate] BETWEEN @StartDate AND @EndDate);

        -- Update the SalesTerritory SalesYTD when SubTotal is updated
        UPDATE [Sales].[SalesTerritory]
        SET [Sales].[SalesTerritory].[SalesYTD] =
          (SELECT SUM([Sales].[SalesOrderHeader].[SubTotal])
           FROM [Sales].[SalesOrderHeader]
           WHERE [Sales].[SalesTerritory].[TerritoryID] = [Sales].[SalesOrderHeader].[TerritoryID]
              AND ([Sales].[SalesOrderHeader].[Status] = 5) -- Shipped
              AND [Sales].[SalesOrderHeader].[OrderDate] BETWEEN @StartDate AND @EndDate)
        WHERE [Sales].[SalesTerritory].[TerritoryID]
          IN (SELECT DISTINCT inserted.[TerritoryID] FROM inserted
             WHERE inserted.[OrderDate] BETWEEN @StartDate AND @EndDate);

      END;
    END TRY
  BEGIN CATCH
    EXECUTE [dbo].[uspPrintError];

    -- Rollback any active or uncommittable transactions before
    -- inserting information in the ErrorLog
    IF @@TRANCOUNT > 0
      BEGIN
        ROLLBACK TRANSACTION;
      END

    EXECUTE [dbo].[uspLogError];
  END CATCH;

```

```

END;
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_Address_BillToAddressID FOREIGN KEY (BillToAddressID) REFERENCES Person.
  Address (AddressID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_Address_ShipToAddressID FOREIGN KEY (ShipToAddressID) REFERENCES Person.
  Address (AddressID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_CreditCard_CreditCardID FOREIGN KEY (CreditCardID) REFERENCES Sales.CreditCard
  (CreditCardID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_CurrencyRate_CurrencyRateID FOREIGN KEY (CurrencyRateID) REFERENCES Sales.
  CurrencyRate (CurrencyRateID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_Customer_CustomerID FOREIGN KEY (CustomerID) REFERENCES Sales.Customer (
  CustomerID)
GO

















ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_SalesPerson_SalesPersonID FOREIGN KEY (SalesPersonID) REFERENCES Sales.
  SalesPerson (BusinessEntityID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_SalesTerritory_TerritoryID FOREIGN KEY (TerritoryID) REFERENCES Sales.
  SalesTerritory (TerritoryID)
GO

ALTER TABLE Sales.SalesOrderHeader
  ADD CONSTRAINT FK_SalesOrderHeader_ShipMethod_ShipMethodID FOREIGN KEY (ShipMethodID) REFERENCES Purchasing.
  ShipMethod (ShipMethodID)
GO

```

## Depends On 16

-  Sales
-  Person.Address
-  Purchasing.ShipMethod
-  Sales.CreditCard
-  Sales.CurrencyRate
-  Sales.Customer
-  Sales.SalesPerson
-  Sales.SalesTerritory
-  dbo.Flag
-  dbo.OrderNumber
-  dbo.AccountNumber
-  dbo.ufnGetAccountingStartDate
-  dbo.ufnGetAccountingEndDate
-  dbo.uspPrintError
-  dbo.uspLogError
-  AdventureWorks2022

## Used By 3

-  Sales.SalesOrderDetail
-  Sales.SalesOrderHeaderSalesReason
-  Sales.vSalesPersonSalesByFiscalYears







# Sales.SalesOrderHeaderSalesReason

## Description



## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	27647
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	SalesOrderID	int	4	10	0	True				False	False	
  	SalesReasonID	int	4	10	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
 	PK_SalesOrderHeaderSalesReason_SalesOrderID_SalesReasonID	SalesOrderID, SalesReasonID	True		

## Foreign Keys

Name	Columns	Description
FK_SalesOrderHeaderSalesReason_SalesOrderHeader_SalesOrderID	SalesOrderID	
FK_SalesOrderHeaderSalesReason_SalesReason_SalesReasonID	SalesReasonID	

## SQL Script

```

CREATE TABLE Sales.SalesOrderHeaderSalesReason (
  SalesOrderID int NOT NULL,
  SalesReasonID int NOT NULL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesOrderHeaderSalesReason_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SalesOrderHeaderSalesReason_SalesOrderID_SalesReasonID PRIMARY KEY CLUSTERED (SalesOrderID,
  SalesReasonID)
)
ON [PRIMARY]
GO

ALTER TABLE Sales.SalesOrderHeaderSalesReason
  ADD CONSTRAINT FK_SalesOrderHeaderSalesReason_SalesOrderHeader_SalesOrderID FOREIGN KEY (SalesOrderID) REFERENCES
  Sales.SalesOrderHeader (SalesOrderID) ON DELETE CASCADE
GO

ALTER TABLE Sales.SalesOrderHeaderSalesReason
  ADD CONSTRAINT FK_SalesOrderHeaderSalesReason_SalesReason_SalesReasonID FOREIGN KEY (SalesReasonID) REFERENCES
  Sales.SalesReason (SalesReasonID)
GO

```

## Depends On 3



Sales



Sales.SalesOrderHeader



Sales.SalesReason

## Used By

No items found









# Sales.SalesPerson

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	17
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	TerritoryID	int	4	10	0	False				False	False	
	SalesQuota	money	8	19	4	False				False	False	
	Bonus	money	8	19	4	True			(0.00)	False	False	
	CommissionPct	smallmoney	4	10	4	True			(0.00)	False	False	
	SalesYTD	money	8	19	4	True			(0.00)	False	False	
	SalesLastYear	money	8	19	4	True			(0.00)	False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesPerson_rowguid	rowguid	True		
	PK_SalesPerson_BusinessEntityID	BusinessEntityID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_SalesPerson_Bonus	Bonus	([Bonus]>=(0.00))	
CK_SalesPerson_CommissionPct	CommissionPct	([CommissionPct]>=(0.00))	
CK_SalesPerson_SalesLastYear	SalesLastYear	([SalesLastYear]>=(0.00))	
CK_SalesPerson_SalesQuota	SalesQuota	([SalesQuota]>(0.00))	
CK_SalesPerson_SalesYTD	SalesYTD	([SalesYTD]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_SalesPerson_Employee_BusinessEntityID	BusinessEntityID	
FK_SalesPerson_SalesTerritory_TerritoryID	TerritoryID	

## SQL Script

```
CREATE TABLE Sales.SalesPerson (  
    BusinessEntityID int NOT NULL,  
    TerritoryID int NULL,  
    SalesQuota money NULL,  
    Bonus money NOT NULL CONSTRAINT DF_SalesPerson_Bonus DEFAULT (0.00),  
    CommissionPct smallmoney NOT NULL CONSTRAINT DF_SalesPerson_CommissionPct DEFAULT (0.00),  
    SalesYTD money NOT NULL CONSTRAINT DF_SalesPerson_SalesYTD DEFAULT (0.00),  
    SalesLastYear money NOT NULL CONSTRAINT DF_SalesPerson_SalesLastYear DEFAULT (0.00),  
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesPerson_rowguid DEFAULT (newid()) ROWGUIDCOL,  
    ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesPerson_ModifiedDate DEFAULT (getdate()),  
    CONSTRAINT PK_SalesPerson_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID),  
    CONSTRAINT CK_SalesPerson_Bonus CHECK ([Bonus]>=(0.00)),  
    CONSTRAINT CK_SalesPerson_CommissionPct CHECK ([CommissionPct]>=(0.00)),  
    CONSTRAINT CK_SalesPerson_SalesLastYear CHECK ([SalesLastYear]>=(0.00)),  
    CONSTRAINT CK_SalesPerson_SalesQuota CHECK ([SalesQuota]>(0.00)),  
    CONSTRAINT CK_SalesPerson_SalesYTD CHECK ([SalesYTD]>=(0.00))  
)  
ON [PRIMARY]  
GO  
  
CREATE UNIQUE INDEX AK_SalesPerson_rowguid  
ON Sales.SalesPerson (rowguid)  
ON [PRIMARY]  
GO  
  
ALTER TABLE Sales.SalesPerson  
ADD CONSTRAINT FK_SalesPerson_Employee_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES HumanResources.  
Employee (BusinessEntityID)  
GO  
  
ALTER TABLE Sales.SalesPerson  
ADD CONSTRAINT FK_SalesPerson_SalesTerritory_TerritoryID FOREIGN KEY (TerritoryID) REFERENCES Sales.  
SalesTerritory (TerritoryID)  
GO
```

## Depends On 4




Sales



HumanResources.Employee

## Used By 6

-  Sales.SalesOrderHeader
-  Sales.SalesPersonQuotaHistory
-  Sales.SalesTerritoryHistory
-  Sales.Store
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears







# Sales.SalesPersonQuotaHistory

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	163
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	QuotaDate	datetime	8	23	3	True				False	False	
	SalesQuota	money	8	19	4	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesPersonQuotaHistory_rowguid	rowguid	True		

	PK_SalesPersonQuotaHistory_BusinessEntityID_QuotaDate	BusinessEntityID, QuotaDate	True		
--	---	-----------------------------	------	--	--

## Check Constraints

Name	Columns	Condition	Description
CK_SalesPersonQuotaHistory_SalesQuota	SalesQuota	[(SalesQuota)>(0.00)]	

## Foreign Keys

Name	Columns	Description
FK_SalesPersonQuotaHistory_SalesPerson_BusinessEntityID	BusinessEntityID	

## SQL Script

```




CREATE TABLE Sales.SalesPersonQuotaHistory (
  BusinessEntityID int NOT NULL,
  QuotaDate datetime NOT NULL,
  SalesQuota money NOT NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesPersonQuotaHistory_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesPersonQuotaHistory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SalesPersonQuotaHistory_BusinessEntityID_QuotaDate PRIMARY KEY CLUSTERED (BusinessEntityID,
  QuotaDate),
  CONSTRAINT CK_SalesPersonQuotaHistory_SalesQuota CHECK ([SalesQuota]>(0.00))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesPersonQuotaHistory_rowguid
ON Sales.SalesPersonQuotaHistory (rowguid)
ON [PRIMARY]
GO

ALTER TABLE Sales.SalesPersonQuotaHistory
ADD CONSTRAINT FK_SalesPersonQuotaHistory_SalesPerson_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES
Sales.SalesPerson (BusinessEntityID)
GO

```

## Depends On 3

-  Sales
-  Sales.SalesPerson
-  AdventureWorks2022

## Used By

No items found


# Sales.SalesReason

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	10
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SalesReasonID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	ReasonType	dbo.Name	50	0	0	True				False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	PK_SalesReason_SalesReasonID	SalesReasonID	True		

## SQL Script

```
CREATE TABLE Sales.SalesReason (
    SalesReasonID int IDENTITY,
```

```
Name dbo.Name NOT NULL,  
ReasonType dbo.Name NOT NULL,  
ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesReason_ModifiedDate DEFAULT (getdate()),  
CONSTRAINT PK_SalesReason_SalesReasonID PRIMARY KEY CLUSTERED (SalesReasonID)  
)  
ON [PRIMARY]  
GO
```

## Depends On 3

 Sales

 dbo.Name

 AdventureWorks2022

## Used By 1

 Sales.SalesOrderHeaderSalesReason





# Sales.SalesTaxRate

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	29
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SalesTaxRateID	int	4	10	0	True	1 - 1			False	False	
	StateProvinceID	int	4	10	0	True				False	False	
	TaxType	tinyint	1	3	0	True				False	False	
	TaxRate	smallmoney	4	10	4	True			(0.00)	False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
-----	------	---------	--------	------	-------------

	AK_SalesTaxRate_rowguid	rowguid	True		
	AK_SalesTaxRate_StateProvinceID_TaxType	StateProvinceID, TaxType	True		
	PK_SalesTaxRate_SalesTaxRateID	SalesTaxRateID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_SalesTaxRate_TaxType	TaxType	([TaxType]>=(1) AND [TaxType]<=(3))	

## Foreign Keys

Name	Columns	Description
FK_SalesTaxRate_StateProvince_StateProvinceID	StateProvinceID	

## SQL Script

```

CREATE TABLE Sales.SalesTaxRate (
  SalesTaxRateID int IDENTITY,
  StateProvinceID int NOT NULL,
  TaxType tinyint NOT NULL,
  TaxRate smallmoney NOT NULL CONSTRAINT DF_SalesTaxRate_TaxRate DEFAULT (0.00),
  Name dbo.Name NOT NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesTaxRate_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesTaxRate_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SalesTaxRate_SalesTaxRateID PRIMARY KEY CLUSTERED (SalesTaxRateID),
  CONSTRAINT CK_SalesTaxRate_TaxType CHECK ([TaxType]>=(1) AND [TaxType]<=(3))
)
ON [PRIMARY]
GO





CREATE UNIQUE INDEX AK_SalesTaxRate_rowguid
  ON Sales.SalesTaxRate (rowguid)
  ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesTaxRate_StateProvinceID_TaxType
  ON Sales.SalesTaxRate (StateProvinceID, TaxType)
  ON [PRIMARY]
GO

ALTER TABLE Sales.SalesTaxRate
  ADD CONSTRAINT FK_SalesTaxRate_StateProvince_StateProvinceID FOREIGN KEY (StateProvinceID) REFERENCES Person.StateProvince (StateProvinceID)
GO

```

## Depends On 4

-  Sales
-  Person.StateProvince
-  dbo.Name
-  AdventureWorks2022

## Used By

No items found









# Sales.SalesTerritory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	10
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	TerritoryID	int	4	10	0	True	1 - 1			False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	CountryRegionCode	nvarchar	3	0	0	True				False	False	
	Group	nvarchar	50	0	0	True				False	False	
	SalesYTD	money	8	19	4	True			(0.00)	False	False	
	SalesLastYear	money	8	19	4	True			(0.00)	False	False	
	CostYTD	money	8	19	4	True			(0.00)	False	False	
	CostLastYear	money	8	19	4	True			(0.00)	False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesTerritory_Name	Name	True		
	AK_SalesTerritory_rowguid	rowguid	True		
	PK_SalesTerritory_TerritoryID	TerritoryID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_SalesTerritory_CostLastYear	CostLastYear	[(CostLastYear]>=(0.00))	
CK_SalesTerritory_CostYTD	CostYTD	[(CostYTD]>=(0.00))	
CK_SalesTerritory_SalesLastYear	SalesLastYear	[(SalesLastYear]>=(0.00))	
CK_SalesTerritory_SalesYTD	SalesYTD	[(SalesYTD]>=(0.00))	

## Foreign Keys

Name	Columns	Description
FK_SalesTerritory_CountryRegion_CountryRegionCode	CountryRegionCode	

## SQL Script

```
CREATE TABLE Sales.SalesTerritory (
    TerritoryID int IDENTITY,
    Name dbo.Name NOT NULL,
    CountryRegionCode nvarchar(3) NOT NULL,
    [Group] nvarchar(50) NOT NULL,
    SalesYTD money NOT NULL CONSTRAINT DF_SalesTerritory_SalesYTD DEFAULT (0.00),
    SalesLastYear money NOT NULL CONSTRAINT DF_SalesTerritory_SalesLastYear DEFAULT (0.00),
    CostYTD money NOT NULL CONSTRAINT DF_SalesTerritory_CostYTD DEFAULT (0.00),
    CostLastYear money NOT NULL CONSTRAINT DF_SalesTerritory_CostLastYear DEFAULT (0.00),
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesTerritory_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesTerritory_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_SalesTerritory_TerritoryID PRIMARY KEY CLUSTERED (TerritoryID),
    CONSTRAINT CK_SalesTerritory_CostLastYear CHECK ([CostLastYear]>=(0.00)),
    CONSTRAINT CK_SalesTerritory_CostYTD CHECK ([CostYTD]>=(0.00)),
    CONSTRAINT CK_SalesTerritory_SalesLastYear CHECK ([SalesLastYear]>=(0.00)),
    CONSTRAINT CK_SalesTerritory_SalesYTD CHECK ([SalesYTD]>=(0.00))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesTerritory_Name
ON Sales.SalesTerritory (Name)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SalesTerritory_rowguid
ON Sales.SalesTerritory (rowguid)
ON [PRIMARY]
GO

ALTER TABLE Sales.SalesTerritory
ADD CONSTRAINT FK_SalesTerritory_CountryRegion_CountryRegionCode FOREIGN KEY (CountryRegionCode) REFERENCES
Person.CountryRegion (CountryRegionCode)
GO
```

## Depends On 4

-  Sales
-  Person.CountryRegion
-  dbo.Name



## Used By 7

-  Person.StateProvince
-  Sales.Customer
-  Sales.SalesOrderHeader
-  Sales.SalesPerson
-  Sales.SalesTerritoryHistory
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears
















# Sales.SalesTerritoryHistory

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	17
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
  	BusinessEntityID	int	4	10	0	True				False	False	
  	TerritoryID	int	4	10	0	True				False	False	
  	StartDate	datetime	8	23	3	True				False	False	
 	EndDate	datetime	8	23	3	False				False	False	
 	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
 	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SalesTerritoryHistory_rowguid	rowguid	True		
	PK_SalesTerritoryHistory_BusinessEntityID_StartDate_TerritoryID	BusinessEntityID, StartDate, TerritoryID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_SalesTerritoryHistory_EndDate	EndDate, StartDate	((EndDate]>=[StartDate] OR [EndDate] IS NULL)	

## Foreign Keys

Name	Columns	Description
FK_SalesTerritoryHistory_SalesPerson_BusinessEntityID	BusinessEntityID	
FK_SalesTerritoryHistory_SalesTerritory_TerritoryID	TerritoryID	

## SQL Script

```

CREATE TABLE Sales.SalesTerritoryHistory (
  BusinessEntityID int NOT NULL,
  TerritoryID int NOT NULL,
  StartDate datetime NOT NULL,
  EndDate datetime NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SalesTerritoryHistory_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SalesTerritoryHistory_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SalesTerritoryHistory_BusinessEntityID_StartDate_TerritoryID PRIMARY KEY CLUSTERED (
    BusinessEntityID, StartDate, TerritoryID),
  CONSTRAINT CK_SalesTerritoryHistory_EndDate CHECK ([EndDate]>=[StartDate] OR [EndDate] IS NULL)
)
ON [PRIMARY]
GO





CREATE UNIQUE INDEX AK_SalesTerritoryHistory_rowguid
ON Sales.SalesTerritoryHistory (rowguid)
ON [PRIMARY]
GO

ALTER TABLE Sales.SalesTerritoryHistory
ADD CONSTRAINT FK_SalesTerritoryHistory_SalesPerson_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES
Sales.SalesPerson (BusinessEntityID)
GO

ALTER TABLE Sales.SalesTerritoryHistory
ADD CONSTRAINT FK_SalesTerritoryHistory_SalesTerritory_TerritoryID FOREIGN KEY (TerritoryID) REFERENCES Sales.
SalesTerritory (TerritoryID)
GO

```

## Depends On 4

-  Sales
-  Sales.SalesPerson
-  Sales.SalesTerritory
-  AdventureWorks2022

## Used By

No items found





# Sales.ShoppingCartItem

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	3
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	ShoppingCartItemID	int	4	10	0	True	1 - 1			False	False	
	ShoppingCartID	nvarchar	50	0	0	True				False	False	
	Quantity	int	4	10	0	True			(1)	False	False	
	ProductID	int	4	10	0	True				False	False	
	DateCreated	datetime	8	23	3	True			(getdate())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_ShoppingCartItem_ShoppingCartID_ProductID	ShoppingCartID, ProductID	False		

	PK_ShoppingCartItem_ShoppingCartItemID	ShoppingCartItemID	True		
--	--	--------------------	------	--	--

## Check Constraints

Name	Columns	Condition	Description
CK_ShoppingCartItem_Quantity	Quantity	([Quantity]>=(1))	

## Foreign Keys

Name	Columns	Description
FK_ShoppingCartItem_Product_ProductID	ProductID	

## SQL Script

```




CREATE TABLE Sales.ShoppingCartItem (
  ShoppingCartItemID int IDENTITY,
  ShoppingCartID nvarchar(50) NOT NULL,
  Quantity int NOT NULL CONSTRAINT DF_ShoppingCartItem_Quantity DEFAULT (1),
  ProductID int NOT NULL,
  DateCreated datetime NOT NULL CONSTRAINT DF_ShoppingCartItem_DateCreated DEFAULT (getdate()),
  ModifiedDate datetime NOT NULL CONSTRAINT DF_ShoppingCartItem_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_ShoppingCartItem_ShoppingCartItemID PRIMARY KEY CLUSTERED (ShoppingCartItemID),
  CONSTRAINT CK_ShoppingCartItem_Quantity CHECK ([Quantity]>=(1))
)
ON [PRIMARY]
GO

CREATE INDEX IX_ShoppingCartItem_ShoppingCartID_ProductID
ON Sales.ShoppingCartItem (ShoppingCartID, ProductID)
ON [PRIMARY]
GO

ALTER TABLE Sales.ShoppingCartItem
ADD CONSTRAINT FK_ShoppingCartItem_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
ProductID)
GO

```

## Depends On 3

-  Sales
-  Production.Product
-  AdventureWorks2022

## Used By

No items found








# Sales.SpecialOffer

## Description

## Properties


Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	16
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SpecialOfferID	int	4	10	0	True	1 - 1			False	False	
	Description	nvarchar	255	0	0	True				False	False	
	DiscountPct	smallmoney	4	10	4	True			(0.00)	False	False	
	Type	nvarchar	50	0	0	True				False	False	
	Category	nvarchar	50	0	0	True				False	False	
	StartDate	datetime	8	23	3	True				False	False	
	EndDate	datetime	8	23	3	True				False	False	
	MinQty	int	4	10	0	True			(0)	False	False	
	MaxQty	int	4	10	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	

	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	
--	--------------	----------	---	----	---	------	--	--	-------------	-------	-------	--

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SpecialOffer_rowguid	rowguid	True		
	PK_SpecialOffer_SpecialOfferID	SpecialOfferID	True		

## Check Constraints

Name	Columns	Condition	Description
CK_SpecialOffer_DiscountPct	DiscountPct	([DiscountPct]>=(0.00))	
CK_SpecialOffer_EndDate	EndDate, StartDate	([EndDate]>=[StartDate])	
CK_SpecialOffer_MaxQty	MaxQty	([MaxQty]>=(0))	
CK_SpecialOffer_MinQty	MinQty	([MinQty]>=(0))	

## SQL Script

```

CREATE TABLE Sales.SpecialOffer (
    SpecialOfferID int IDENTITY,
    Description nvarchar(255) NOT NULL,
    DiscountPct smallmoney NOT NULL CONSTRAINT DF_SpecialOffer_DiscountPct DEFAULT (0.00),
    Type nvarchar(50) NOT NULL,
    Category nvarchar(50) NOT NULL,
    StartDate datetime NOT NULL,
    EndDate datetime NOT NULL,
    MinQty int NOT NULL CONSTRAINT DF_SpecialOffer_MinQty DEFAULT (0),
    MaxQty int NULL,
    rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SpecialOffer_rowguid DEFAULT (newid()) ROWGUIDCOL,
    ModifiedDate datetime NOT NULL CONSTRAINT DF_SpecialOffer_ModifiedDate DEFAULT (getdate()),
    CONSTRAINT PK_SpecialOffer_SpecialOfferID PRIMARY KEY CLUSTERED (SpecialOfferID),
    CONSTRAINT CK_SpecialOffer_DiscountPct CHECK ([DiscountPct]>=(0.00)),
    CONSTRAINT CK_SpecialOffer_EndDate CHECK ([EndDate]>=[StartDate]),
    CONSTRAINT CK_SpecialOffer_MaxQty CHECK ([MaxQty]>=(0)),
    CONSTRAINT CK_SpecialOffer_MinQty CHECK ([MinQty]>=(0))
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SpecialOffer_rowguid
ON Sales.SpecialOffer (rowguid)
ON [PRIMARY]
GO

```

## Depends On <sup>2</sup>



Sales



AdventureWorks2022

## Used By <sup>1</sup>



Sales.SpecialOfferProduct




# Sales.SpecialOfferProduct

## Description

## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	538
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39


## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	SpecialOfferID	int	4	10	0	True				False	False	
	ProductID	int	4	10	0	True				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_SpecialOfferProduct_rowguid	rowguid	True		
	IX_SpecialOfferProduct_ProductID	ProductID	False		



	PK_SpecialOfferProduct_SpecialOfferID_ProductID	SpecialOfferID, ProductID	True		
--	---	---------------------------	------	--	--

## Foreign Keys

Name	Columns	Description
FK_SpecialOfferProduct_Product_ProductID	ProductID	
FK_SpecialOfferProduct_SpecialOffer_SpecialOfferID	SpecialOfferID	

## SQL Script

```

CREATE TABLE Sales.SpecialOfferProduct (
  SpecialOfferID int NOT NULL,
  ProductID int NOT NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_SpecialOfferProduct_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_SpecialOfferProduct_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_SpecialOfferProduct_SpecialOfferID_ProductID PRIMARY KEY CLUSTERED (SpecialOfferID, ProductID)
)
ON [PRIMARY]
GO

CREATE UNIQUE INDEX AK_SpecialOfferProduct_rowguid
  ON Sales.SpecialOfferProduct (rowguid)
  ON [PRIMARY]
GO




CREATE INDEX IX_SpecialOfferProduct_ProductID
  ON Sales.SpecialOfferProduct (ProductID)
  ON [PRIMARY]
GO

ALTER TABLE Sales.SpecialOfferProduct
  ADD CONSTRAINT FK_SpecialOfferProduct_Product_ProductID FOREIGN KEY (ProductID) REFERENCES Production.Product (
  ProductID)
GO

ALTER TABLE Sales.SpecialOfferProduct
  ADD CONSTRAINT FK_SpecialOfferProduct_SpecialOffer_SpecialOfferID FOREIGN KEY (SpecialOfferID) REFERENCES Sales.
  SpecialOffer (SpecialOfferID)
GO

```

## Depends On 3

-  Sales
-  Production.Product
-  Sales.SpecialOffer

## Used By 1

-  Sales.SalesOrderDetail





# Sales.Store

## Description


## Properties

Name	Value
Collation	
File Group	
Filestream File Group	
Is Partitioned	False
Partitioned Column	
Partition Scheme	
File Groups	
Filestream Partition Scheme	
Filestream File Groups	
Heap	False
Full Text Catalog	
Full Text	
Compression	NONE
Row Count (~)	701
Created	08-May-23 12:07:29
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Identity	Rule	Default	Computed	Persisted	Description
	BusinessEntityID	int	4	10	0	True				False	False	
	Name	dbo.Name	50	0	0	True				False	False	
	SalesPersonID	int	4	10	0	False				False	False	
	Demographics	Sales.StoreSurveySchemaCollection		0	0	False				False	False	
	rowguid	uniqueidentifier	16	0	0	True			(newid())	False	False	
	ModifiedDate	datetime	8	23	3	True			(getdate())	False	False	

## Indexes

Key	Name	Columns	Unique	Type	Description
	AK_Store_rowguid	rowguid	True		
	IX_Store_SalesPersonID	SalesPersonID	False		
	PK_Store_BusinessEntityID	BusinessEntityID	True		

	PXML_Store_Demographics	Demographics	False		
--	-------------------------	--------------	-------	--	--

## Foreign Keys

Name	Columns	Description
FK_Store_BusinessEntity_BusinessEntityID	BusinessEntityID	
FK_Store_SalesPerson_SalesPersonID	BusinessEntityID	

## SQL Script

```

CREATE TABLE Sales.Store (
  BusinessEntityID int NOT NULL,
  Name dbo.Name NOT NULL,
  SalesPersonID int NULL,
  Demographics xml (CONTENT Sales.StoreSurveySchemaCollection) NULL,
  rowguid uniqueidentifier NOT NULL CONSTRAINT DF_Store_rowguid DEFAULT (newid()) ROWGUIDCOL,
  ModifiedDate datetime NOT NULL CONSTRAINT DF_Store_ModifiedDate DEFAULT (getdate()),
  CONSTRAINT PK_Store_BusinessEntityID PRIMARY KEY CLUSTERED (BusinessEntityID)
)
ON [PRIMARY]
TEXTIMAGE_ON [PRIMARY]
GO

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE PRIMARY XML INDEX PXML_Store_Demographics
  ON Sales.Store (Demographics)
GO

CREATE UNIQUE INDEX AK_Store_rowguid
  ON Sales.Store (rowguid)
  ON [PRIMARY]
GO







CREATE INDEX IX_Store_SalesPersonID
  ON Sales.Store (SalesPersonID)
  ON [PRIMARY]
GO

ALTER TABLE Sales.Store
  ADD CONSTRAINT FK_Store_BusinessEntity_BusinessEntityID FOREIGN KEY (BusinessEntityID) REFERENCES Person.
  BusinessEntity (BusinessEntityID)
GO






ALTER TABLE Sales.Store
  ADD CONSTRAINT FK_Store_SalesPerson_SalesPersonID FOREIGN KEY (SalesPersonID) REFERENCES Sales.SalesPerson (
  BusinessEntityID)
GO

```

## Depends On 6

-  Sales
-  Person.BusinessEntity
-  Sales.SalesPerson
-  dbo.Name
-  Sales.StoreSurveySchemaCollection
-  AdventureWorks2022

## Used By 5

-  Sales.Customer
-  Sales.vStoreWithAddresses
-  Sales.vStoreWithContacts
-  Sales.vStoreWithDemographics
-  dbo.ufnGetContactInformation

 ViewsObjects 20

Name	Description
HumanResources.vEmployee	
HumanResources.vEmployeeDepartment	
HumanResources.vEmployeeDepartmentHistory	
HumanResources.vJobCandidate	
HumanResources.vJobCandidateEducation	
HumanResources.vJobCandidateEmployment	
Person.vAdditionalContactInfo	
Person.vStateProvinceCountryRegion	
Production.vProductAndDescription	
Production.vProductModelCatalogDescription	
Production.vProductModelInstructions	
Purchasing.vVendorWithAddresses	
Purchasing.vVendorWithContacts	
Sales.vIndividualCustomer	
Sales.vPersonDemographics	
Sales.vSalesPerson	
Sales.vSalesPersonSalesByFiscalYears	
Sales.vStoreWithAddresses	
Sales.vStoreWithContacts	
Sales.vStoreWithDemographics	

# HumanResources.vEmployee

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	JobTitle	
	PhoneNumber	
	PhoneNumberType	
	EmailAddress	
	EmailPromotion	
	AddressLine1	
	AddressLine2	
	City	
	StateProvinceName	
	PostalCode	
	CountryRegionName	
	AdditionalContactInfo	

## SQL Script














```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON  
GO
```

```

CREATE OR ALTER VIEW HumanResources.vEmployee
AS
SELECT
    e.[BusinessEntityID]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,e.[JobTitle]
    ,pp.[PhoneNumber]
    ,pnt.[Name] AS [PhoneNumberType]
    ,ea.[EmailAddress]
    ,p.[EmailPromotion]
    ,a.[AddressLine1]
    ,a.[AddressLine2]
    ,a.[City]
    ,sp.[Name] AS [StateProvinceName]
    ,a.[PostalCode]
    ,cr.[Name] AS [CountryRegionName]
    ,p.[AdditionalContactInfo]
FROM [HumanResources].[Employee] e
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = e.[BusinessEntityID]
INNER JOIN [Person].[BusinessEntityAddress] bea
ON bea.[BusinessEntityID] = e.[BusinessEntityID]
INNER JOIN [Person].[Address] a
ON a.[AddressID] = bea.[AddressID]
INNER JOIN [Person].[StateProvince] sp
ON sp.[StateProvinceID] = a.[StateProvinceID]
INNER JOIN [Person].[CountryRegion] cr
ON cr.[CountryRegionCode] = sp.[CountryRegionCode]
LEFT OUTER JOIN [Person].[PersonPhone] pp
ON pp.BusinessEntityID = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PhoneNumberType] pnt
ON pp.[PhoneNumberTypeID] = pnt.[PhoneNumberTypeID]
LEFT OUTER JOIN [Person].[EmailAddress] ea
ON p.[BusinessEntityID] = ea.[BusinessEntityID];
GO

```

## Depends On 13

-  HumanResources
-  dbo.Name
-  dbo.Phone
-  Person.AdditionalContactInfoSchemaCollection
-  HumanResources.Employee
-  Person.Person
-  Person.BusinessEntityAddress
-  Person.Address
-  Person.StateProvince
-  Person.CountryRegion
-  Person.PersonPhone
-  Person.PhoneNumberType
-  Person.EmailAddress

## Used By

No items found

# HumanResources.vEmployeeDepartment

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	JobTitle	
	Department	
	GroupName	
	StartDate	


## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW HumanResources.vEmployeeDepartment
AS
SELECT
    e.[BusinessEntityID]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,e.[JobTitle]
    ,d.[Name] AS [Department]
    ,d.[GroupName]
    ,edh.[StartDate]
FROM [HumanResources].[Employee] e
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = e.[BusinessEntityID]
```

```
INNER JOIN [HumanResources].[EmployeeDepartmentHistory] edh
ON e.[BusinessEntityID] = edh.[BusinessEntityID]
INNER JOIN [HumanResources].[Department] d
ON edh.[DepartmentID] = d.[DepartmentID]
WHERE edh.EndDate IS NULL
GO
```

## Depends On 6

-  HumanResources
-  dbo.Name
-  HumanResources.Department
-  HumanResources.Employee
-  Person.Person
-  HumanResources.EmployeeDepartmentHistory

## Used By

No items found



# HumanResources.vEmployeeDepartmentHistory

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	Shift	
	Department	
	GroupName	
	StartDate	
	EndDate	




## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW HumanResources.vEmployeeDepartmentHistory
AS
SELECT
    e.[BusinessEntityID]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,s.[Name] AS [Shift]
    ,d.[Name] AS [Department]
    ,d.[GroupName]
    ,edh.[StartDate]
    ,edh.[EndDate]
```

```
FROM [HumanResources].[Employee] e
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = e.[BusinessEntityID]
INNER JOIN [HumanResources].[EmployeeDepartmentHistory] edh
ON e.[BusinessEntityID] = edh.[BusinessEntityID]
INNER JOIN [HumanResources].[Department] d
ON edh.[DepartmentID] = d.[DepartmentID]
INNER JOIN [HumanResources].[Shift] s
ON s.[ShiftID] = edh.[ShiftID];
GO
```

## Depends On 7

-  HumanResources
-  dbo.Name
-  HumanResources.Shift
-  HumanResources.Department
-  HumanResources.Employee
-  Person.Person
-  HumanResources.EmployeeDepartmentHistory

## Used By

No items found

# HumanResources.vJobCandidate

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	JobCandidateID	
	BusinessEntityID	
	Name.Prefix	
	Name.First	
	Name.Middle	
	Name.Last	
	Name.Suffix	
	Skills	
	Addr.Type	
	Addr.Loc.CountryRegion	
	Addr.Loc.State	
	Addr.Loc.City	
	Addr.PostalCode	
	EMail	
	WebSite	
	ModifiedDate	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW HumanResources.vJobCandidate
AS
SELECT
    jc.[JobCandidateID]
```

```

,jc.[BusinessEntityID]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Name/Name.Prefix)[1]', 'nvarchar(30)') AS [Name.Prefix]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Name/Name.First)[1]', 'nvarchar(30)') AS [Name.First]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Name/Name.Middle)[1]', 'nvarchar(30)') AS [Name.Middle]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Name/Name.Last)[1]', 'nvarchar(30)') AS [Name.Last]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Name/Name.Suffix)[1]', 'nvarchar(30)') AS [Name.Suffix]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/Skills)[1]', 'nvarchar(max)') AS [Skills]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Address/Addr.Type)[1]', 'nvarchar(30)') AS [Addr.Type]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Address/Addr.Location/Location/Loc.CountryRegion)
[1]', 'nvarchar(100)') AS [Addr.Loc.CountryRegion]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Address/Addr.Location/Location/Loc.State)[1]', 'nvarchar(100)') AS [Addr.Loc.State]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Address/Addr.Location/Location/Loc.City)[1]', 'nvarchar(100)') AS [Addr.Loc.City]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Address/Addr.PostalCode)[1]', 'nvarchar(20)') AS [Addr.PostalCode]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/EMail)[1]', 'nvarchar(max)') AS [EMail]
,[Resume].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (/Resume/WebSite)[1]', 'nvarchar(max)') AS [WebSite]
,jc.[ModifiedDate]
FROM [HumanResources].[JobCandidate] jc
CROSS APPLY jc.[Resume].nodes(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; /Resume') AS Resume(ref);
GO

```

## Depends On <sup>2</sup>



HumanResources



HumanResources.JobCandidate

## Used By

No items found

# HumanResources.vJobCandidateEducation

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	JobCandidateID	
	Edu.Level	
	Edu.StartDate	
	Edu.EndDate	
	Edu.Degree	
	Edu.Major	
	Edu.Minor	
	Edu.GPA	
	Edu.GPAScale	
	Edu.School	
	Edu.Loc.CountryRegion	
	Edu.Loc.State	
	Edu.Loc.City	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW HumanResources.vJobCandidateEducation
AS
SELECT
    jc.[JobCandidateID]
    ,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Level)[1]', 'nvarchar(max)') AS [Edu.Level]
    ,CONVERT(datetime, REPLACE([Education].ref.value(N'declare default element namespace "http://schemas.
microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Edu.StartDate)
[1]', 'nvarchar(20)'), 'Z', ''), 101) AS [Edu.StartDate]
    ,CONVERT(datetime, REPLACE([Education].ref.value(N'declare default element namespace "http://schemas.
```

```

microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Edu.EndDate)
[1]', 'nvarchar(20)', 'Z', ''), 101) AS [Edu.EndDate]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Degree)[1]', 'nvarchar(50)') AS [Edu.Degree]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Major)[1]', 'nvarchar(50)') AS [Edu.Major]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Minor)[1]', 'nvarchar(50)') AS [Edu.Minor]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.GPA)[1]', 'nvarchar(5)') AS [Edu.GPA]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.GPAScale)[1]', 'nvarchar(5)') AS [Edu.GPAScale]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.School)[1]', 'nvarchar(100)') AS [Edu.School]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Location/Location/Loc.CountryRegion)
[1]', 'nvarchar(100)') AS [Edu.Loc.CountryRegion]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Location/Location/Loc.State)[1]', 'nvarchar(100)') AS [Edu.Loc.State]
,[Education].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Edu.Location/Location/Loc.City)[1]', 'nvarchar(100)') AS [Edu.Loc.City]
FROM [HumanResources].[JobCandidate] jc
CROSS APPLY jc.[Resume].nodes(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; /Resume/Education') AS [Education](ref);
GO

```

## Depends On <sup>2</sup>



HumanResources



HumanResources.JobCandidate

## Used By

No items found

# HumanResources.vJobCandidateEmployment

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Schema Bound	False
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	JobCandidateID	
	Emp.StartDate	
	Emp.EndDate	
	Emp.OrgName	
	Emp.JobTitle	
	Emp.Responsibility	
	Emp.FunctionCategory	
	Emp.IndustryCategory	
	Emp.Loc.CountryRegion	
	Emp.Loc.State	
	Emp.Loc.City	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW HumanResources.vJobCandidateEmployment
AS
SELECT
    jc.[JobCandidateID]
    , CONVERT(datetime, REPLACE([Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Emp.StartDate)
[1]', 'nvarchar(20)') , 'Z', '' ), 101) AS [Emp.StartDate]
    , CONVERT(datetime, REPLACE([Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Emp.EndDate)
[1]', 'nvarchar(20)') , 'Z', '' ), 101) AS [Emp.EndDate]
    , [Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Emp.OrgName)[1]', 'nvarchar(100)') AS [Emp.OrgName]
    , [Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume"; (Emp.JobTitle)[1]', 'nvarchar(100)') AS [Emp.JobTitle]
```

```
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.Responsibility)[1]', 'nvarchar(max)') AS [Emp.Responsibility]
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.FunctionCategory)[1]', 'nvarchar(max)') AS [Emp.FunctionCategory]
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.IndustryCategory)[1]', 'nvarchar(max)') AS [Emp.IndustryCategory]
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.Location/Location/Loc.CountryRegion)
[1]', 'nvarchar(max)') AS [Emp.Loc.CountryRegion]
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.Location/Location/Loc.State)[1]', 'nvarchar(max)') AS [Emp.Loc.State]
,[Employment].ref.value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; (Emp.Location/Location/Loc.City)[1]', 'nvarchar(max)') AS [Emp.Loc.City]
FROM [HumanResources].[JobCandidate] jc
CROSS APPLY jc.[Resume].nodes(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/Resume"; /Resume/Employment') AS Employment(ref);
GO
```

## Depends On <sup>2</sup>



HumanResources



HumanResources.JobCandidate

## Used By

No items found



# Person.vAdditionalContactInfo

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	FirstName	
	MiddleName	
	LastName	
	TelephoneNumber	
	TelephoneSpecialInstructions	
	Street	
	City	
	StateProvince	
	PostalCode	
	CountryRegion	
	HomeAddressSpecialInstructions	
	EMailAddress	
	EMailSpecialInstructions	
	EMailTelephoneNumber	
	rowguid	
	ModifiedDate	

## SQL Script




```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Person.vAdditionalContactInfo
AS
```

## SELECT

```
[BusinessEntityID]
,[FirstName]
,[MiddleName]
,[LastName]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:telephoneNumber)[1]/act:number', 'nvarchar(50)') AS [TelephoneNumber]
,[LTRIM(RTRIM([ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:telephoneNumber/act:SpecialInstructions/text())[1]', 'nvarchar(max)')))] AS [TelephoneSpecialInstructions]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:Street)[1]', 'nvarchar(50)') AS [Street]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:City)[1]', 'nvarchar(50)') AS [City]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:StateProvince)[1]', 'nvarchar(50)') AS [StateProvince]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:PostalCode)[1]', 'nvarchar(50)') AS [PostalCode]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:CountryRegion)[1]', 'nvarchar(50)') AS [CountryRegion]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:homePostalAddress/act:SpecialInstructions/text())[1]', 'nvarchar(max)') AS [HomeAddressSpecialInstructions]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:email/act:EmailAddress)[1]', 'nvarchar(128)') AS [EmailAddress]
,[LTRIM(RTRIM([ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:email/act:SpecialInstructions/text())[1]', 'nvarchar(max)')))] AS [EMailSpecialInstructions]
,[ContactInfo].ref.value(N'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"; declare namespace act="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes"; (act:email/act:SpecialInstructions/act:telephoneNumber/act:number)[1]', 'nvarchar(50)') AS [EMailTelephoneNumber]
,[rowguid]
,[ModifiedDate]
FROM [Person].[Person]
OUTER APPLY [AdditionalContactInfo].nodes(
'declare namespace ci="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo";
/ci:AdditionalContactInfo') AS ContactInfo(ref)
WHERE [AdditionalContactInfo] IS NOT NULL;
GO
```

## Depends On 3

-  Person
-  dbo.Name
-  Person.Person

## Used By

No items found



# Person.vStateProvinceCountryRegion

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>True</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	StateProvinceID	
	StateProvinceCode	
	IsOnlyStateProvinceFlag	
	StateProvinceName	
	TerritoryID	
	CountryRegionCode	
	CountryRegionName	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_vStateProvinceCountryRegion	StateProvinceID, CountryRegionCode	<b>True</b>		

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Person.vStateProvinceCountryRegion
WITH SCHEMABINDING
AS
SELECT
    sp.[StateProvinceID]
    ,sp.[StateProvinceCode]
    ,sp.[IsOnlyStateProvinceFlag]
    ,sp.[Name] AS [StateProvinceName]
    ,sp.[TerritoryID]
    ,cr.[CountryRegionCode]
    ,cr.[Name] AS [CountryRegionName]
FROM [Person].[StateProvince] sp
INNER JOIN [Person].[CountryRegion] cr
ON sp.[CountryRegionCode] = cr.[CountryRegionCode];
```

GO

```
CREATE UNIQUE CLUSTERED INDEX IX_vStateProvinceCountryRegion
ON Person.vStateProvinceCountryRegion (StateProvinceID, CountryRegionCode)
ON [PRIMARY]
GO
```

## Depends On 5

 Person

 dbo.Flag

 dbo.Name

 Person.StateProvince

 Person.CountryRegion

## Used By

No items found



# Production.vProductAndDescription

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>True</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	ProductID	
	Name	
	ProductModel	
	CultureID	
	Description	

## Indexes

Key	Name	Columns	Unique	Type	Description
	IX_vProductAndDescription	CultureID, ProductID	<b>True</b>		

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Production.vProductAndDescription
WITH SCHEMABINDING
AS
-- View (indexed or standard) to display products and product descriptions by language.
SELECT
    p.[ProductID]
    ,p.[Name]
    ,pm.[Name] AS [ProductModel]
    ,pmx.[CultureID]
    ,pd.[Description]
FROM [Production].[Product] p
INNER JOIN [Production].[ProductModel] pm
ON p.[ProductModelID] = pm.[ProductModelID]
INNER JOIN [Production].[ProductModelProductDescriptionCulture] pmx
ON pm.[ProductModelID] = pmx.[ProductModelID]
INNER JOIN [Production].[ProductDescription] pd
ON pmx.[ProductDescriptionID] = pd.[ProductDescriptionID];
GO
```

```
CREATE UNIQUE CLUSTERED INDEX IX_vProductAndDescription
ON Production.vProductAndDescription (CultureID, ProductID)
ON [PRIMARY]
GO
```

## Depends On 6

 Production

 dbo.Name

 Production.ProductModel

 Production.Product

 Production.ProductModelProductDescriptionCulture

 Production.ProductDescription

## Used By

No items found

# Production.vProductModelCatalogDescription

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	ProductModelID	
	Name	
	Summary	
	Manufacturer	
	Copyright	
	ProductURL	
	WarrantyPeriod	
	WarrantyDescription	
	NoOfYears	
	MaintenanceDescription	
	Wheel	
	Saddle	
	Pedal	
	BikeFrame	
	Crankset	
	PictureAngle	
	PictureSize	
	ProductPhotoID	
	Material	
	Color	
	ProductLine	

	Style	
	RiderExperience	
	rowguid	
	ModifiedDate	

## SQL Script

```

SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Production.vProductModelCatalogDescription
AS
SELECT
    [ProductModelID]
    ,[Name]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace html="http://www.w3.org/1999/xhtml";
(/p1:ProductDescription/p1:Summary/html:p)[1]', 'nvarchar(max)') AS [Summary]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Manufacturer/p1:Name)
[1]', 'nvarchar(max)') AS [Manufacturer]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Manufacturer/p1:Copyright)
[1]', 'nvarchar(30)') AS [Copyright]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Manufacturer/p1:ProductURL)
[1]', 'nvarchar(256)') AS [ProductURL]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wm="http://schemas.microsoft.com/sqlserver/
2004/07/adventure-works/ProductModelWarrAndMain"; (/p1:ProductDescription/p1:Features/wm:Warranty/wm:
WarrantyPeriod)[1]', 'nvarchar(256)') AS [WarrantyPeriod]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wm="http://schemas.microsoft.com/sqlserver/
2004/07/adventure-works/ProductModelWarrAndMain"; (/p1:ProductDescription/p1:Features/wm:Warranty/wm:
Description)[1]', 'nvarchar(256)') AS [WarrantyDescription]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wm="http://schemas.microsoft.com/sqlserver/
2004/07/adventure-works/ProductModelWarrAndMain"; (/p1:ProductDescription/p1:Features/wm:Maintenance/
wm:NoOfYears)[1]', 'nvarchar(256)') AS [NoOfYears]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wm="http://schemas.microsoft.com/sqlserver/
2004/07/adventure-works/ProductModelWarrAndMain"; (/p1:ProductDescription/p1:Features/wm:Maintenance/
wm:Description)[1]', 'nvarchar(256)') AS [MaintenanceDescription]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wf="http://www.adventure-works.com/schemas/
OtherFeatures"; (/p1:ProductDescription/p1:Features/wf:wheel)[1]', 'nvarchar(256)') AS [Wheel]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wf="http://www.adventure-works.com/schemas/
OtherFeatures"; (/p1:ProductDescription/p1:Features/wf:saddle)[1]', 'nvarchar(256)') AS [Saddle]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wf="http://www.adventure-works.com/schemas/
OtherFeatures"; (/p1:ProductDescription/p1:Features/wf:pedal)[1]', 'nvarchar(256)') AS [Pedal]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wf="http://www.adventure-works.com/schemas/
OtherFeatures"; (/p1:ProductDescription/p1:Features/wf:BikeFrame)[1]', 'nvarchar(max)') AS [BikeFrame]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; declare namespace wf="http://www.adventure-works.com/schemas/
OtherFeatures"; (/p1:ProductDescription/p1:Features/wf:crankset)[1]', 'nvarchar(256)') AS [Crankset]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Picture/p1:Angle)
[1]', 'nvarchar(256)') AS [PictureAngle]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Picture/p1:Size)
[1]', 'nvarchar(256)') AS [PictureSize]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Picture/p1:ProductPhotoID)
[1]', 'nvarchar(256)') AS [ProductPhotoID]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Specifications/Material)
[1]', 'nvarchar(256)') AS [Material]
    ,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/
adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Specifications/Color)
[1]', 'nvarchar(256)') AS [Color]

```



```
,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Specifications/ProductLine)
[1]', 'nvarchar(256)') AS [ProductLine]
,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Specifications/Style)
[1]', 'nvarchar(256)') AS [Style]
,[CatalogDescription].value(N'declare namespace p1="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelDescription"; (/p1:ProductDescription/p1:Specifications/RiderExperience)[1]
', 'nvarchar(1024)') AS [RiderExperience]
,[rowguid]
,[ModifiedDate]
FROM [Production].[ProductModel]
WHERE [CatalogDescription] IS NOT NULL;
GO
```

## Depends On 3



Production



dbo.Name



Production.ProductModel

## Used By

No items found

# Production.vProductModelInstructions

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Schema Bound	False
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	ProductModelID	
	Name	
	Instructions	
	LocationID	
	SetupHours	
	MachineHours	
	LaborHours	
	LotSize	
	Step	
	rowguid	
	ModifiedDate	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Production.vProductModelInstructions
AS
SELECT
    [ProductModelID]
    ,[Name]
    ,[Instructions].value(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelManuInstructions"; (/root/text())[1]', 'nvarchar(max)') AS [Instructions]
    ,[MfgInstructions].ref.value('@LocationID[1]', 'int') AS [LocationID]
    ,[MfgInstructions].ref.value('@SetupHours[1]', 'decimal(9, 4)') AS [SetupHours]
    ,[MfgInstructions].ref.value('@MachineHours[1]', 'decimal(9, 4)') AS [MachineHours]
    ,[MfgInstructions].ref.value('@LaborHours[1]', 'decimal(9, 4)') AS [LaborHours]
    ,[MfgInstructions].ref.value('@LotSize[1]', 'int') AS [LotSize]
    ,[Steps].ref.value('string(.)[1]', 'nvarchar(1024)') AS [Step]
    ,[rowguid]
```

```
,[ModifiedDate]
FROM [Production].[ProductModel]
CROSS APPLY [Instructions].nodes(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelManuInstructions"; /root/Location') MfgInstructions(ref)
CROSS APPLY [MfgInstructions].ref.nodes('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelManuInstructions"; step') Steps(ref);
GO
```

## Depends On 3

 Production

 dbo.Name

 Production.ProductModel

## Used By

No items found

# Purchasing.vVendorWithAddresses

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Name	
	AddressType	
	AddressLine1	
	AddressLine2	
	City	
	StateProvinceName	
	PostalCode	
	CountryRegionName	









## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Purchasing.vVendorWithAddresses AS
SELECT
    v.[BusinessEntityID]
  ,v.[Name]
  ,at.[Name] AS [AddressType]
  ,a.[AddressLine1]
  ,a.[AddressLine2]
  ,a.[City]
  ,sp.[Name] AS [StateProvinceName]
  ,a.[PostalCode]
  ,cr.[Name] AS [CountryRegionName]
FROM [Purchasing].[Vendor] v
INNER JOIN [Person].[BusinessEntityAddress] bea
ON bea.[BusinessEntityID] = v.[BusinessEntityID]
INNER JOIN [Person].[Address] a
ON a.[AddressID] = bea.[AddressID]
INNER JOIN [Person].[StateProvince] sp
ON sp.[StateProvinceID] = a.[StateProvinceID]
```

```
INNER JOIN [Person].[CountryRegion] cr
ON cr.[CountryRegionCode] = sp.[CountryRegionCode]
INNER JOIN [Person].[AddressType] at
ON at.[AddressTypeID] = bea.[AddressTypeID];
GO
```

## Depends On 8

-  Purchasing
-  dbo.Name
-  Purchasing.Vendor
-  Person.BusinessEntityAddress
-  Person.Address
-  Person.StateProvince
-  Person.CountryRegion
-  Person.AddressType

## Used By

No items found

# Purchasing.vVendorWithContacts

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Name	
	ContactType	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	PhoneNumber	
	PhoneNumberType	
	EmailAddress	
	EmailPromotion	











## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Purchasing.vVendorWithContacts AS
SELECT
    v.[BusinessEntityID]
    ,v.[Name]
    ,ct.[Name] AS [ContactType]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,pp.[PhoneNumber]
    ,pnt.[Name] AS [PhoneNumberType]
```

```
,ea.[EmailAddress]
,p.[EmailPromotion]
FROM [Purchasing].[Vendor] v
INNER JOIN [Person].[BusinessEntityContact] bec
ON bec.[BusinessEntityID] = v.[BusinessEntityID]
INNER JOIN [Person].[ContactType] ct
ON ct.[ContactTypeID] = bec.[ContactTypeID]
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = bec.[PersonID]
LEFT OUTER JOIN [Person].[EmailAddress] ea
ON ea.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PersonPhone] pp
ON pp.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PhoneNumberType] pnt
ON pnt.[PhoneNumberTypeID] = pp.[PhoneNumberTypeID];
GO
```

## Depends On 10

-  Purchasing
-  dbo.Name
-  dbo.Phone
-  Purchasing.Vendor
-  Person.BusinessEntityContact
-  Person.ContactType
-  Person.Person
-  Person.EmailAddress
-  Person.PersonPhone
-  Person.PhoneNumberType

## Used By

No items found

# Sales.vIndividualCustomer

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	PhoneNumber	
	PhoneNumberType	
	EmailAddress	
	EmailPromotion	
	AddressType	
	AddressLine1	
	AddressLine2	
	City	
	StateProvinceName	
	PostalCode	
	CountryRegionName	
	Demographics	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
```

















```

CREATE OR ALTER VIEW Sales.vIndividualCustomer
AS
SELECT
    p.[BusinessEntityID]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,pp.[PhoneNumber]
    ,pnt.[Name] AS [PhoneNumberType]
    ,ea.[EmailAddress]
    ,p.[EmailPromotion]
    ,at.[Name] AS [AddressType]
    ,a.[AddressLine1]
    ,a.[AddressLine2]
    ,a.[City]
    ,[StateProvinceName] = sp.[Name]
    ,a.[PostalCode]
    ,[CountryRegionName] = cr.[Name]
    ,p.[Demographics]
FROM [Person].[Person] p
INNER JOIN [Person].[BusinessEntityAddress] bea
ON bea.[BusinessEntityID] = p.[BusinessEntityID]
INNER JOIN [Person].[Address] a
ON a.[AddressID] = bea.[AddressID]
INNER JOIN [Person].[StateProvince] sp
ON sp.[StateProvinceID] = a.[StateProvinceID]
INNER JOIN [Person].[CountryRegion] cr
ON cr.[CountryRegionCode] = sp.[CountryRegionCode]
INNER JOIN [Person].[AddressType] at
ON at.[AddressTypeID] = bea.[AddressTypeID]
INNER JOIN [Sales].[Customer] c
ON c.[PersonID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[EmailAddress] ea
ON ea.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PersonPhone] pp
ON pp.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PhoneNumberType] pnt
ON pnt.[PhoneNumberTypeID] = pp.[PhoneNumberTypeID]
WHERE c.StoreID IS NULL;
GO

```

## Depends On 14

-  Sales
-  dbo.Name
-  dbo.Phone
-  Person.IndividualSurveySchemaCollection
-  Person.Person
-  Person.BusinessEntityAddress
-  Person.Address
-  Person.StateProvince
-  Person.CountryRegion
-  Person.AddressType
-  Sales.Customer
-  Person.EmailAddress
-  Person.PersonPhone
-  Person.PhoneNumberType

## Used By

No items found

# Sales.vPersonDemographics

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Schema Bound	False
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	TotalPurchaseYTD	
	DateFirstPurchase	
	BirthDate	
	MaritalStatus	
	YearlyIncome	
	Gender	
	TotalChildren	
	NumberChildrenAtHome	
	Education	
	Occupation	
	HomeOwnerFlag	
	NumberCarsOwned	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vPersonDemographics
AS
SELECT
    p.[BusinessEntityID]
    , [IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey"; TotalPurchaseYTD[1]', 'money') AS [TotalPurchaseYTD]
    , CONVERT(datetime, REPLACE([IndividualSurvey].[ref].[value](N'declare default element namespace "http://
schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey";
DateFirstPurchase[1]', 'nvarchar(20)'), 'Z', ''), 101) AS [DateFirstPurchase]
    , CONVERT(datetime, REPLACE([IndividualSurvey].[ref].[value](N'declare default element namespace "http://
```

```

schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey";
BirthDate[1]', 'nvarchar(20)', 'Z', ''), 101) AS [BirthDate]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  MaritalStatus[1]', 'nvarchar(1)' AS [MaritalStatus]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  YearlyIncome[1]', 'nvarchar(30)' AS [YearlyIncome]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  Gender[1]', 'nvarchar(1)' AS [Gender]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  TotalChildren[1]', 'integer') AS [TotalChildren]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";
NumberChildrenAtHome[1]', 'integer') AS [NumberChildrenAtHome]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  Education[1]', 'nvarchar(30)' AS [Education]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  Occupation[1]', 'nvarchar(30)' AS [Occupation]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  HomeOwnerFlag[1]', 'bit') AS [HomeOwnerFlag]
,[IndividualSurvey].[ref].[value](N'declare default element namespace "http://schemas.microsoft.com/
sqlserver/2004/07/adventure-works/IndividualSurvey";  NumberCarsOwned[1]', 'integer') AS [NumberCarsOwned]
FROM [Person].[Person] p
CROSS APPLY p.[Demographics].nodes(N'declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/
07/adventure-works/IndividualSurvey";  /IndividualSurvey') AS [IndividualSurvey](ref)
WHERE [Demographics] IS NOT NULL;
GO

```

## Depends On 2



Sales



Person.Person

## Used By

No items found

# Sales.vSalesPerson

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	JobTitle	
	PhoneNumber	
	PhoneNumberType	
	EmailAddress	
	EmailPromotion	
	AddressLine1	
	AddressLine2	
	City	
	StateProvinceName	
	PostalCode	
	CountryRegionName	
	TerritoryName	
	TerritoryGroup	
	SalesQuota	
	SalesYTD	



SalesLastYear
---------------

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vSalesPerson
AS
SELECT
    s.[BusinessEntityID]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,e.[JobTitle]
    ,pp.[PhoneNumber]
    ,pnt.[Name] AS [PhoneNumberType]
    ,ea.[EmailAddress]
    ,p.[EmailPromotion]
    ,a.[AddressLine1]
    ,a.[AddressLine2]
    ,a.[City]
    ,[StateProvinceName] = sp.[Name]
    ,a.[PostalCode]
    ,[CountryRegionName] = cr.[Name]
    ,[TerritoryName] = st.[Name]
    ,[TerritoryGroup] = st.[Group]
    ,s.[SalesQuota]
    ,s.[SalesYTD]
    ,s.[SalesLastYear]
FROM [Sales].[SalesPerson] s
    INNER JOIN [HumanResources].[Employee] e
    ON e.[BusinessEntityID] = s.[BusinessEntityID]
    INNER JOIN [Person].[Person] p
    ON p.[BusinessEntityID] = s.[BusinessEntityID]
    INNER JOIN [Person].[BusinessEntityAddress] bea
    ON bea.[BusinessEntityID] = s.[BusinessEntityID]
    INNER JOIN [Person].[Address] a
    ON a.[AddressID] = bea.[AddressID]
    INNER JOIN [Person].[StateProvince] sp
    ON sp.[StateProvinceID] = a.[StateProvinceID]
    INNER JOIN [Person].[CountryRegion] cr
    ON cr.[CountryRegionCode] = sp.[CountryRegionCode]
    LEFT OUTER JOIN [Sales].[SalesTerritory] st
    ON st.[TerritoryID] = s.[TerritoryID]
    LEFT OUTER JOIN [Person].[EmailAddress] ea
    ON ea.[BusinessEntityID] = p.[BusinessEntityID]
    LEFT OUTER JOIN [Person].[PersonPhone] pp
    ON pp.[BusinessEntityID] = p.[BusinessEntityID]
    LEFT OUTER JOIN [Person].[PhoneNumberType] pnt
    ON pnt.[PhoneNumberTypeID] = pp.[PhoneNumberTypeID];
GO
```

## Depends On 14

-  Sales
-  dbo.Name
-  dbo.Phone
-  Sales.SalesPerson
-  HumanResources.Employee
-  Person.Person
-  Person.BusinessEntityAddress
-  Person.Address
-  Person.StateProvince
-  Person.CountryRegion
-  Sales.SalesTerritory
-  Person.EmailAddress
-  Person.PersonPhone

## Used By

No items found

# Sales.vSalesPersonSalesByFiscalYears

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Schema Bound	False
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	SalesPersonID	
	FullName	
	JobTitle	
	SalesTerritory	
	2002	
	2003	
	2004	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vSalesPersonSalesByFiscalYears
AS
SELECT
    pvt.[SalesPersonID]
    ,pvt.[FullName]
    ,pvt.[JobTitle]
    ,pvt.[SalesTerritory]
    ,pvt.[2002]
    ,pvt.[2003]
    ,pvt.[2004]
FROM (SELECT
    soh.[SalesPersonID]
    ,p.[FirstName] + ' ' + COALESCE(p.[MiddleName], '') + ' ' + p.[LastName] AS [FullName]
    ,e.[JobTitle]
    ,st.[Name] AS [SalesTerritory]
    ,soh.[SubTotal]
    ,YEAR(DATEADD(m, 6, soh.[OrderDate])) AS [FiscalYear]
FROM [Sales].[SalesPerson] sp
    INNER JOIN [Sales].[SalesOrderHeader] soh
    ON sp.[BusinessEntityID] = soh.[SalesPersonID]
    INNER JOIN [Sales].[SalesTerritory] st
    ON sp.[TerritoryID] = st.[TerritoryID]
```

```
INNER JOIN [HumanResources].[Employee] e
ON soh.[SalesPersonID] = e.[BusinessEntityID]
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = sp.[BusinessEntityID]
) AS soh
PIVOT
(
SUM([SubTotal])
FOR [FiscalYear]
IN ([2002], [2003], [2004])
) AS pvt;
GO
```

## Depends On 7

-  Sales
-  dbo.Name
-  Sales.SalesTerritory
-  Sales.SalesPerson
-  Sales.SalesOrderHeader
-  HumanResources.Employee
-  Person.Person

## Used By

No items found



# Sales.vStoreWithAddresses

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Name	
	AddressType	
	AddressLine1	
	AddressLine2	
	City	
	StateProvinceName	
	PostalCode	
	CountryRegionName	









## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vStoreWithAddresses AS
SELECT
    s.[BusinessEntityID]
  ,s.[Name]
  ,at.[Name] AS [AddressType]
  ,a.[AddressLine1]
  ,a.[AddressLine2]
  ,a.[City]
  ,sp.[Name] AS [StateProvinceName]
  ,a.[PostalCode]
  ,cr.[Name] AS [CountryRegionName]
FROM [Sales].[Store] s
INNER JOIN [Person].[BusinessEntityAddress] bea
ON bea.[BusinessEntityID] = s.[BusinessEntityID]
INNER JOIN [Person].[Address] a
ON a.[AddressID] = bea.[AddressID]
INNER JOIN [Person].[StateProvince] sp
ON sp.[StateProvinceID] = a.[StateProvinceID]
```

```
INNER JOIN [Person].[CountryRegion] cr
ON cr.[CountryRegionCode] = sp.[CountryRegionCode]
INNER JOIN [Person].[AddressType] at
ON at.[AddressTypeID] = bea.[AddressTypeID];
GO
```

## Depends On 8

-  Sales
-  dbo.Name
-  Sales.Store
-  Person.BusinessEntityAddress
-  Person.Address
-  Person.StateProvince
-  Person.CountryRegion
-  Person.AddressType

## Used By

No items found

# Sales.vStoreWithContacts

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Name	
	ContactType	
	Title	
	FirstName	
	MiddleName	
	LastName	
	Suffix	
	PhoneNumber	
	PhoneNumberType	
	EmailAddress	
	EmailPromotion	











## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vStoreWithContacts AS
SELECT
    s.[BusinessEntityID]
    ,s.[Name]
    ,ct.[Name] AS [ContactType]
    ,p.[Title]
    ,p.[FirstName]
    ,p.[MiddleName]
    ,p.[LastName]
    ,p.[Suffix]
    ,pp.[PhoneNumber]
    ,pnt.[Name] AS [PhoneNumberType]
```

```
,ea.[EmailAddress]
,p.[EmailPromotion]
FROM [Sales].[Store] s
INNER JOIN [Person].[BusinessEntityContact] bec
ON bec.[BusinessEntityID] = s.[BusinessEntityID]
INNER JOIN [Person].[ContactType] ct
ON ct.[ContactTypeID] = bec.[ContactTypeID]
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = bec.[PersonID]
LEFT OUTER JOIN [Person].[EmailAddress] ea
ON ea.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PersonPhone] pp
ON pp.[BusinessEntityID] = p.[BusinessEntityID]
LEFT OUTER JOIN [Person].[PhoneNumberType] pnt
ON pnt.[PhoneNumberTypeID] = pp.[PhoneNumberTypeID];
GO
```

## Depends On 10

-  Sales
-  dbo.Name
-  dbo.Phone
-  Sales.Store
-  Person.BusinessEntityContact
-  Person.ContactType
-  Person.Person
-  Person.EmailAddress
-  Person.PersonPhone
-  Person.PhoneNumberType

## Used By

No items found

# Sales.vStoreWithDemographics

## Description

## Properties

Name	Value
Collation	SQL_Latin1_General_CP1_CI_AS
ANSI Nulls ON	<b>True</b>
Quoted Identifier ON	<b>True</b>
Encrypted	<b>False</b>
Schema Bound	<b>False</b>
Created	08-May-23 12:07:39
Last Modified	08-May-23 12:07:39

## Columns

Key	Name	Description
	BusinessEntityID	
	Name	
	AnnualSales	
	AnnualRevenue	
	BankName	
	BusinessType	
	YearOpened	
	Specialty	
	SquareFeet	
	Brands	
	Internet	
	NumberEmployees	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER VIEW Sales.vStoreWithDemographics AS
SELECT
    s.[BusinessEntityID]
  ,s.[Name]
  ,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/AnnualSales)[1]', 'money') AS [AnnualSales]
  ,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/AnnualRevenue)[1]', 'money') AS [AnnualRevenue]
  ,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/BankName)[1]', 'nvarchar(50)') AS [BankName]
  ,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/BusinessType)[1]', 'nvarchar(5)') AS [BusinessType]
```

```
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/YearOpened)[1]', 'integer') AS [YearOpened]
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/Specialty)[1]', 'nvarchar(50)') AS [Specialty]
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/SquareFeet)[1]', 'integer') AS [SquareFeet]
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/Brands)[1]', 'nvarchar(30)') AS [Brands]
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/Internet)[1]', 'nvarchar(30)') AS [Internet]
,s.[Demographics].value('declare default element namespace "http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey"; (/StoreSurvey/NumberEmployees)[1]', 'integer') AS [NumberEmployees]
```

```
FROM [Sales].[Store] s;
GO
```

## Depends On 3

-  Sales
-  dbo.Name
-  Sales.Store

## Used By


No items found

# Programmability

## Objects 4

 [Stored Procedures](#)

 [Functions](#)

 [Database Triggers](#)

 [Types](#)

## Stored Procedures

### Objects 11

Name	Description
<a href="#">dbo.SelectAllCustomers</a>	
<a href="#">dbo.uspGetBillOfMaterials</a>	
<a href="#">dbo.uspGetEmployeeManagers</a>	
<a href="#">dbo.uspGetManagerEmployees</a>	
<a href="#">dbo.uspGetWhereUsedProductID</a>	
<a href="#">dbo.uspLogError</a>	
<a href="#">dbo.uspPrintError</a>	
<a href="#">dbo.uspSearchCandidateResumes</a>	
<a href="#">HumanResources.uspUpdateEmployeeHireInfo</a>	
<a href="#">HumanResources.uspUpdateEmployeeLogin</a>	
<a href="#">HumanResources.uspUpdateEmployeePersonalInfo</a>	



# dbo.SelectAllCustomers

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER PROCEDURE dbo.SelectAllCustomers
AS
SELECT * FROM Customers
GO
```

## Depends On

No items found

## Used By

No items found

# dbo.uspGetBillOfMaterials

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@StartProductID	int	4	
@CheckDate	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE dbo.uspGetBillOfMaterials
    @StartProductID [int],
    @CheckDate [datetime]
AS
BEGIN
    SET NOCOUNT ON;

    -- Use recursive query to generate a multi-level Bill of Material (i.e. all level 1
    -- components of a level 0 assembly, all level 2 components of a level 1 assembly)
    -- The CheckDate eliminates any components that are no longer used in the product on this date.
    WITH [BOM_cte]([ProductAssemblyID], [ComponentID], [ComponentDesc], [PerAssemblyQty], [StandardCost],
    [ListPrice], [BOMLevel], [RecursionLevel]) -- CTE name and columns
    AS (
        SELECT b.[ProductAssemblyID], b.[ComponentID], p.[Name], b.[PerAssemblyQty], p.[StandardCost], p.
        [ListPrice], b.[BOMLevel], 0 -- Get the initial list of components for the bike assembly
        FROM [Production].[BillOfMaterials] b
            INNER JOIN [Production].[Product] p
            ON b.[ComponentID] = p.[ProductID]
        WHERE b.[ProductAssemblyID] = @StartProductID
            AND @CheckDate >= b.[StartDate]
            AND @CheckDate <= ISNULL(b.[EndDate], @CheckDate)
        UNION ALL
        SELECT b.[ProductAssemblyID], b.[ComponentID], p.[Name], b.[PerAssemblyQty], p.[StandardCost], p.
        [ListPrice], b.[BOMLevel], [RecursionLevel] + 1 -- Join recursive member to anchor
        FROM [BOM_cte] cte
            INNER JOIN [Production].[BillOfMaterials] b
            ON b.[ProductAssemblyID] = cte.[ComponentID]
            INNER JOIN [Production].[Product] p
            ON b.[ComponentID] = p.[ProductID]
        WHERE @CheckDate >= b.[StartDate]
            AND @CheckDate <= ISNULL(b.[EndDate], @CheckDate)
    )
    -- Outer select from the CTE
    SELECT b.[ProductAssemblyID], b.[ComponentID], b.[ComponentDesc], SUM(b.[PerAssemblyQty]) AS [TotalQuantity] ,
    b.[StandardCost], b.[ListPrice], b.[BOMLevel], b.[RecursionLevel]
    FROM [BOM_cte] b
```

```
GROUP BY b.[ComponentID], b.[ComponentDesc], b.[ProductAssemblyID], b.[BOMLevel], b.[RecursionLevel], b.
[StandardCost], b.[ListPrice]
ORDER BY b.[BOMLevel], b.[ProductAssemblyID], b.[ComponentID]
OPTION (MAXRECURSION 25)
END;
GO
```

## Depends On 3

 [dbo.Name](#)

 [Production.BillOfMaterials](#)

 [Production.Product](#)

## Used By

No items found

# dbo.uspGetEmployeeManagers

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@BusinessEntityID	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE dbo.uspGetEmployeeManagers
    @BusinessEntityID [int]
AS
BEGIN
    SET NOCOUNT ON;

    -- Use recursive query to list out all Employees required for a particular Manager
    WITH [EMP_cte]([BusinessEntityID], [OrganizationNode], [FirstName], [LastName], [JobTitle], [RecursionLevel])
    -- CTE name and columns
    AS (
        SELECT e.[BusinessEntityID], e.[OrganizationNode], p.[FirstName], p.[LastName], e.[JobTitle], 0
        -- Get the initial Employee
        FROM [HumanResources].[Employee] e
        INNER JOIN [Person].[Person] as p
        ON p.[BusinessEntityID] = e.[BusinessEntityID]
        WHERE e.[BusinessEntityID] = @BusinessEntityID
        UNION ALL
        SELECT e.[BusinessEntityID], e.[OrganizationNode], p.[FirstName], p.[LastName], e.[JobTitle],
        [RecursionLevel] + 1 -- Join recursive member to anchor
        FROM [HumanResources].[Employee] e
            INNER JOIN [EMP_cte]
            ON e.[OrganizationNode] = [EMP_cte].[OrganizationNode].GetAncestor(1)
            INNER JOIN [Person].[Person] p
            ON p.[BusinessEntityID] = e.[BusinessEntityID]
    )
    -- Join back to Employee to return the manager name
    SELECT [EMP_cte].[RecursionLevel], [EMP_cte].[BusinessEntityID], [EMP_cte].[FirstName], [EMP_cte].[LastName],
    [EMP_cte].[OrganizationNode].ToString() AS [OrganizationNode], p.[FirstName] AS 'ManagerFirstName', p.
[LastName] AS '
    ManagerLastName'
    -- Outer select from the CTE
    FROM [EMP_cte]
        INNER JOIN [HumanResources].[Employee] e
        ON [EMP_cte].[OrganizationNode].GetAncestor(1) = e.[OrganizationNode]
        INNER JOIN [Person].[Person] p
        ON p.[BusinessEntityID] = e.[BusinessEntityID]
    ORDER BY [RecursionLevel], [EMP_cte].[OrganizationNode].ToString()
    OPTION (MAXRECURSION 25)
```

END;  
GO

## Depends On <sup>2</sup>

-  HumanResources.Employee
-  Person.Person

## Used By

No items found

# dbo.uspGetManagerEmployees

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@BusinessEntityID	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE dbo.uspGetManagerEmployees
    @BusinessEntityID [int]
AS
BEGIN
    SET NOCOUNT ON;

    -- Use recursive query to list out all Employees required for a particular Manager
    WITH [EMP_cte]([BusinessEntityID], [OrganizationNode], [FirstName], [LastName], [RecursionLevel])
    -- CTE name and columns
    AS (
        SELECT e.[BusinessEntityID], e.[OrganizationNode], p.[FirstName], p.[LastName], 0
        -- Get the initial list of Employees for Manager n
        FROM [HumanResources].[Employee] e
        INNER JOIN [Person].[Person] p
        ON p.[BusinessEntityID] = e.[BusinessEntityID]
        WHERE e.[BusinessEntityID] = @BusinessEntityID
        UNION ALL
        SELECT e.[BusinessEntityID], e.[OrganizationNode], p.[FirstName], p.[LastName], [RecursionLevel] + 1
        -- Join recursive member to anchor
        FROM [HumanResources].[Employee] e
            INNER JOIN [EMP_cte]
            ON e.[OrganizationNode].GetAncestor(1) = [EMP_cte].[OrganizationNode]
        INNER JOIN [Person].[Person] p
        ON p.[BusinessEntityID] = e.[BusinessEntityID]
    )
    -- Join back to Employee to return the manager name
    SELECT [EMP_cte].[RecursionLevel], [EMP_cte].[OrganizationNode].ToString() as [OrganizationNode], p.[FirstName]
    AS 'ManagerFirstName', p.[LastName] AS 'ManagerLastName',
        [EMP_cte].[BusinessEntityID], [EMP_cte].[FirstName], [EMP_cte].[LastName] -- Outer select from the CTE
    FROM [EMP_cte]
        INNER JOIN [HumanResources].[Employee] e
        ON [EMP_cte].[OrganizationNode].GetAncestor(1) = e.[OrganizationNode]
        INNER JOIN [Person].[Person] p
        ON p.[BusinessEntityID] = e.[BusinessEntityID]
    ORDER BY [RecursionLevel], [EMP_cte].[OrganizationNode].ToString()
    OPTION (MAXRECURSION 25)
END;
GO
```

## Depends On <sup>2</sup>

 [HumanResources.Employee](#)

 [Person.Person](#)

## Used By

No items found

# dbo.uspGetWhereUsedProductID

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@StartProductID	int	4	
@CheckDate	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE dbo.uspGetWhereUsedProductID
    @StartProductID [int],
    @CheckDate [datetime]
AS
BEGIN
    SET NOCOUNT ON;

    --Use recursive query to generate a multi-level Bill of Material (i.e. all level 1 components of a level 0 assembly,
    all level 2 components of a level 1 assembly)
    WITH [BOM_cte]([ProductAssemblyID], [ComponentID], [ComponentDesc], [PerAssemblyQty], [StandardCost],
    [ListPrice], [BOMLevel], [RecursionLevel]) -- CTE name and columns
    AS (
        SELECT b.[ProductAssemblyID], b.[ComponentID], p.[Name], b.[PerAssemblyQty], p.[StandardCost], p.
        [ListPrice], b.[BOMLevel], 0 -- Get the initial list of components for the bike assembly
        FROM [Production].[BillofMaterials] b
            INNER JOIN [Production].[Product] p
            ON b.[ProductAssemblyID] = p.[ProductID]
        WHERE b.[ComponentID] = @StartProductID
            AND @CheckDate >= b.[StartDate]
            AND @CheckDate <= ISNULL(b.[EndDate], @CheckDate)
        UNION ALL
        SELECT b.[ProductAssemblyID], b.[ComponentID], p.[Name], b.[PerAssemblyQty], p.[StandardCost], p.
        [ListPrice], b.[BOMLevel], [RecursionLevel] + 1 -- Join recursive member to anchor
        FROM [BOM_cte] cte
            INNER JOIN [Production].[BillofMaterials] b
            ON cte.[ProductAssemblyID] = b.[ComponentID]
            INNER JOIN [Production].[Product] p
            ON b.[ProductAssemblyID] = p.[ProductID]
        WHERE @CheckDate >= b.[StartDate]
            AND @CheckDate <= ISNULL(b.[EndDate], @CheckDate)
    )
    -- Outer select from the CTE
    SELECT b.[ProductAssemblyID], b.[ComponentID], b.[ComponentDesc], SUM(b.[PerAssemblyQty]) AS [TotalQuantity] ,
    b.[StandardCost], b.[ListPrice], b.[BOMLevel], b.[RecursionLevel]
    FROM [BOM_cte] b
```



```
GROUP BY b.[ComponentID], b.[ComponentDesc], b.[ProductAssemblyID], b.[BOMLevel], b.[RecursionLevel], b.
[StandardCost], b.[ListPrice]
ORDER BY b.[BOMLevel], b.[ProductAssemblyID], b.[ComponentID]
OPTION (MAXRECURSION 25)
END;
GO
```

## Depends On 3

 [dbo.Name](#)

 [Production.BillOfMaterials](#)

 [Production.Product](#)

## Used By

No items found

# dbo.uspLogError

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@ErrorLogID	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

-- uspLogError logs error information in the ErrorLog table about the
-- error that caused execution to jump to the CATCH block of a
-- TRY...CATCH construct. This should be executed from within the scope
-- of a CATCH block otherwise it will return without inserting error
-- information.
CREATE OR ALTER PROCEDURE dbo.uspLogError
    @ErrorLogID [int] = 0 OUTPUT -- contains the ErrorLogID of the row inserted
AS
    -- by uspLogError in the ErrorLog table
BEGIN
    SET NOCOUNT ON;

    -- Output parameter value of 0 indicates that error
    -- information was not logged
    SET @ErrorLogID = 0;

    BEGIN TRY
        -- Return if there is no error information to log
        IF ERROR_NUMBER() IS NULL
            RETURN;

        -- Return if inside an uncommittable transaction.
        -- Data insertion/modification is not allowed when
        -- a transaction is in an uncommittable state.
        IF XACT_STATE() = -1
            BEGIN
                PRINT 'Cannot log error since the current transaction is in an uncommittable state. '
                    + 'Rollback the transaction before executing uspLogError in order to successfully
                    log error information.';
                RETURN;
            END
    END

    INSERT [dbo].[ErrorLog]
    (
        [UserName],
        [ErrorNumber],
        [ErrorSeverity],
        [ErrorState],
        [ErrorProcedure],
```



```

        [ErrorLine],
        [ErrorMessage]
    )
VALUES
    (
        CONVERT(sysname, CURRENT_USER),
        ERROR_NUMBER(),
        ERROR_SEVERITY(),
        ERROR_STATE(),
        ERROR_PROCEDURE(),
        ERROR_LINE(),
        ERROR_MESSAGE()
    );










-- Pass back the ErrorLogID of the row inserted
SET @ErrorLogID = @@IDENTITY;
END TRY
BEGIN CATCH
    PRINT 'An error occurred in stored procedure uspLogError: ';
    EXECUTE [dbo].[uspPrintError];
    RETURN -1;
END CATCH
END;
GO

```

## Depends On <sup>2</sup>

-  [dbo.ErrorLog](#)
-  [dbo.uspPrintError](#)

## Used By <sup>9</sup>

-  [Production.WorkOrder](#)
-  [Purchasing.PurchaseOrderDetail](#)
-  [Purchasing.PurchaseOrderHeader](#)
-  [Purchasing.Vendor](#)
-  [Sales.SalesOrderDetail](#)
-  [Sales.SalesOrderHeader](#)
-  [HumanResources.uspUpdateEmployeeHireInfo](#)
-  [HumanResources.uspUpdateEmployeeLogin](#)
-  [HumanResources.uspUpdateEmployeePersonalInfo](#)

# dbo.uspPrintError

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO








-- uspPrintError prints error information about the error that caused
-- execution to jump to the CATCH block of a TRY...CATCH construct.
-- Should be executed from within the scope of a CATCH block otherwise
-- it will return without printing any error information.
CREATE OR ALTER PROCEDURE dbo.uspPrintError
AS
BEGIN
    SET NOCOUNT ON;

    -- Print error information.
    PRINT 'Error ' + CONVERT(varchar(50), ERROR_NUMBER()) +
        ', Severity ' + CONVERT(varchar(5), ERROR_SEVERITY()) +
        ', State ' + CONVERT(varchar(5), ERROR_STATE()) +
        ', Procedure ' + ISNULL(ERROR_PROCEDURE(), '-') +
        ', Line ' + CONVERT(varchar(5), ERROR_LINE());
    PRINT ERROR_MESSAGE();
END;
GO
```

## Depends On

No items found

## Used By 7

-  Production.WorkOrder
-  Purchasing.PurchaseOrderDetail
-  Purchasing.PurchaseOrderHeader
-  Purchasing.Vendor
-  Sales.SalesOrderDetail
-  Sales.SalesOrderHeader
-  dbo.uspLogError

# dbo.uspSearchCandidateResumes

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@searchString	nvarchar	1000	
@useInflectional	bit	1	
@useThesaurus	bit	1	
@language	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

--A stored procedure which demonstrates integrated full text search

CREATE OR ALTER PROCEDURE dbo.uspSearchCandidateResumes
    @searchString [nvarchar](1000),
    @useInflectional [bit]=0,
    @useThesaurus [bit]=0,
    @language[int]=0

WITH EXECUTE AS CALLER
AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @string nvarchar(1050)
    --setting the lcid to the default instance LCID if needed
    IF @language = NULL OR @language = 0
    BEGIN
        SELECT @language =CONVERT(int, serverproperty('lcid'))
    END

    --FREETEXTTABLE case as inflectional and Thesaurus were required
    IF @useThesaurus = 1 AND @useInflectional = 1
    BEGIN
        SELECT FT_TBL.[JobCandidateID], KEY_TBL.[RANK] FROM [HumanResources].[JobCandidate] AS FT_TBL
            INNER JOIN FREETEXTTABLE([HumanResources].[JobCandidate],*, @searchString,LANGUAGE
                @language) AS KEY_TBL
            ON FT_TBL.[JobCandidateID] =KEY_TBL.[KEY]
    END

    ELSE IF @useThesaurus = 1
```

```

BEGIN
    SELECT @string = 'FORMSOF(THESAURUS,'" + @searchString + "','" + @language) AS FT_TBL
    SELECT FT_TBL.[JobCandidateID], KEY_TBL.[RANK] FROM [HumanResources].[JobCandidate] AS FT_TBL
        INNER JOIN CONTAINSTABLE([HumanResources].[JobCandidate],*, @string, LANGUAGE @language) AS
        KEY_TBL
    ON FT_TBL.[JobCandidateID] =KEY_TBL.[KEY]
END

ELSE IF @useInflectional = 1
    BEGIN
        SELECT @string = 'FORMSOF(INFLECTIONAL,'" + @searchString + "','" + @language) AS FT_TBL
        SELECT FT_TBL.[JobCandidateID], KEY_TBL.[RANK] FROM [HumanResources].[JobCandidate] AS FT_TBL
            INNER JOIN CONTAINSTABLE([HumanResources].[JobCandidate],*, @string, LANGUAGE @language) AS
            KEY_TBL
        ON FT_TBL.[JobCandidateID] =KEY_TBL.[KEY]
    END

ELSE --base case, plain CONTAINSTABLE
    BEGIN
        SELECT @string = "'" + @searchString + "'"
        SELECT FT_TBL.[JobCandidateID],KEY_TBL.[RANK] FROM [HumanResources].[JobCandidate] AS FT_TBL
            INNER JOIN CONTAINSTABLE([HumanResources].[JobCandidate],*,@string,LANGUAGE @language) AS
            KEY_TBL
        ON FT_TBL.[JobCandidateID] =KEY_TBL.[KEY]
    END

END;
GO

```

## Depends On 1

 [HumanResources.JobCandidate](#)

## Used By

No items found

# HumanResources.uspUpdateEmployeeHireInfo

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@BusinessEntityID	int	4	
@JobTitle	nvarchar	50	
@HireDate	datetime	8	
@RateChangeDate	datetime	8	
@Rate	money	8	
@PayFrequency	tinyint	1	
@CurrentFlag	Flag	1	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE HumanResources.uspUpdateEmployeeHireInfo
    @BusinessEntityID [int],
    @JobTitle [nvarchar](50),
    @HireDate [datetime],
    @RateChangeDate [datetime],
    @Rate [money],
    @PayFrequency [tinyint],
    @CurrentFlag [dbo].[Flag]
WITH EXECUTE AS CALLER
AS
BEGIN
    SET NOCOUNT ON;

    BEGIN TRY
        BEGIN TRANSACTION;

        UPDATE [HumanResources].[Employee]
        SET [JobTitle] = @JobTitle
            ,[HireDate] = @HireDate
            ,[CurrentFlag] = @CurrentFlag
        WHERE [BusinessEntityID] = @BusinessEntityID;






        INSERT INTO [HumanResources].[EmployeePayHistory]
            ([BusinessEntityID]
            ,[RateChangeDate]
            ,[Rate])
```

```
        ,[PayFrequency])
VALUES (@BusinessEntityID, @RateChangeDate, @Rate, @PayFrequency);

COMMIT TRANSACTION;
END TRY
BEGIN CATCH
    -- Rollback any active or uncommittable transactions before
    -- inserting information in the ErrorLog
    IF @@TRANCOUNT > 0
    BEGIN
        ROLLBACK TRANSACTION;
    END

    EXECUTE [dbo].[uspLogError];
END CATCH;
END;
GO
```

## Depends On 5

-  HumanResources
-  dbo.Flag
-  HumanResources.Employee
-  HumanResources.EmployeePayHistory
-  dbo.uspLogError

## Used By

No items found



# HumanResources.uspUpdateEmployeeLogin

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@BusinessEntityID	int	4	
@OrganizationNode	hierarchyid	892	
@LoginID	nvarchar	256	
@JobTitle	nvarchar	50	
@HireDate	datetime	8	
@CurrentFlag	Flag	1	





## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE HumanResources.uspUpdateEmployeeLogin
    @BusinessEntityID [int],
    @OrganizationNode [hierarchyid],
    @LoginID [nvarchar](256),
    @JobTitle [nvarchar](50),
    @HireDate [datetime],
    @CurrentFlag [dbo].[Flag]
WITH EXECUTE AS CALLER
AS
BEGIN
    SET NOCOUNT ON;

    BEGIN TRY
        UPDATE [HumanResources].[Employee]
        SET [OrganizationNode] = @OrganizationNode
            ,[LoginID] = @LoginID
            ,[JobTitle] = @JobTitle
            ,[HireDate] = @HireDate
            ,[CurrentFlag] = @CurrentFlag
        WHERE [BusinessEntityID] = @BusinessEntityID;
    END TRY
    BEGIN CATCH
        EXECUTE [dbo].[uspLogError];
    END CATCH;
END;
GO
```

## Depends On 4

-  HumanResources
-  dbo.Flag
-  HumanResources.Employee
-  dbo.uspLogError

## Used By

No items found

# HumanResources.uspUpdateEmployeePersonalInfo

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Assembly	

## Parameters

Name	Data Type	Length	Description
@BusinessEntityID	int	4	
@NationalIDNumber	nvarchar	15	
@BirthDate	datetime	8	
@MaritalStatus	nchar	1	
@Gender	nchar	1	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER PROCEDURE HumanResources.uspUpdateEmployeePersonalInfo
    @BusinessEntityID [int],
    @NationalIDNumber [nvarchar](15),
    @BirthDate [datetime],
    @MaritalStatus [nchar](1),
    @Gender [nchar](1)
WITH EXECUTE AS CALLER
AS
BEGIN
    SET NOCOUNT ON;

    BEGIN TRY
        UPDATE [HumanResources].[Employee]
        SET [NationalIDNumber] = @NationalIDNumber
            , [BirthDate] = @BirthDate
            , [MaritalStatus] = @MaritalStatus
            , [Gender] = @Gender
        WHERE [BusinessEntityID] = @BusinessEntityID;
    END TRY
    BEGIN CATCH
        EXECUTE [dbo].[uspLogError];
    END CATCH;
END;
GO
```

## Depends On 3


-  HumanResources
-  HumanResources.Employee

## Used By

No items found

# Functions

## Objects 2

 [Table-Valued Functions](#)

 [Scalar-Valued Functions](#)

## Table-Valued Functions

### Objects 2

Name	Description
<a href="#">dbo.TestFUNC_ENC</a>	
<a href="#">dbo.ufnGetContactInformation</a>	

# dbo.TestFUNC\_ENC

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	



## Parameters

Name	Data Type	Length	Description
@Department	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER FUNCTION dbo.TestFUNC_ENC
(
    @Department INT
)
RETURNS TABLE
AS RETURN
(SELECT *
 FROM HumanResources.Department d
 WHERE
    DepartmentID = @Department
);
GO
```

## Depends On 2

-  [dbo.Name](#)
-  [HumanResources.Department](#)

## Used By

No items found

# dbo.ufnGetContactInformation

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
@PersonID	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetContactInformation(@PersonID int)
RETURNS @retContactInformation TABLE
(
    -- Columns returned by the function
    [PersonID] int NOT NULL,
    [FirstName] [nvarchar](50) NULL,
    [LastName] [nvarchar](50) NULL,
    [JobTitle] [nvarchar](50) NULL,
    [BusinessEntityType] [nvarchar](50) NULL
)
AS
-- Returns the first name, last name, job title and business entity type for the specified contact.
-- Since a contact can serve multiple roles, more than one row may be returned.
BEGIN
    IF @PersonID IS NOT NULL
    BEGIN
        IF EXISTS(SELECT * FROM [HumanResources].[Employee] e
            WHERE e.[BusinessEntityID] = @PersonID)
            INSERT INTO @retContactInformation
            SELECT @PersonID, p.FirstName, p.LastName, e.[JobTitle], 'Employee'
            FROM [HumanResources].[Employee] AS e
            INNER JOIN [Person].[Person] p
            ON p.[BusinessEntityID] = e.[BusinessEntityID]
            WHERE e.[BusinessEntityID] = @PersonID;

        IF EXISTS(SELECT * FROM [Purchasing].[Vendor] AS v
            INNER JOIN [Person].[BusinessEntityContact] bec
            ON bec.[BusinessEntityID] = v.[BusinessEntityID]
            WHERE bec.[PersonID] = @PersonID)
            INSERT INTO @retContactInformation
            SELECT @PersonID, p.FirstName, p.LastName, ct.[Name], 'Vendor Contact'
            FROM [Purchasing].[Vendor] AS v
            INNER JOIN [Person].[BusinessEntityContact] bec
            ON bec.[BusinessEntityID] = v.[BusinessEntityID]
```



```

INNER JOIN [Person].ContactType ct
ON ct.[ContactTypeID] = bec.[ContactTypeID]
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = bec.[PersonID]
WHERE bec.[PersonID] = @PersonID;


IF EXISTS(SELECT * FROM [Sales].[Store] AS s
INNER JOIN [Person].[BusinessEntityContact] bec
ON bec.[BusinessEntityID] = s.[BusinessEntityID]
WHERE bec.[PersonID] = @PersonID)
INSERT INTO @retContactInformation
SELECT @PersonID, p.FirstName, p.LastName, ct.[Name], 'Store Contact'
FROM [Sales].[Store] AS s
INNER JOIN [Person].[BusinessEntityContact] bec
ON bec.[BusinessEntityID] = s.[BusinessEntityID]
INNER JOIN [Person].ContactType ct
ON ct.[ContactTypeID] = bec.[ContactTypeID]
INNER JOIN [Person].[Person] p
ON p.[BusinessEntityID] = bec.[PersonID]
WHERE bec.[PersonID] = @PersonID;

IF EXISTS(SELECT * FROM [Person].[Person] AS p
INNER JOIN [Sales].[Customer] AS c
ON c.[PersonID] = p.[BusinessEntityID]
WHERE p.[BusinessEntityID] = @PersonID AND c.[StoreID] IS NULL)
INSERT INTO @retContactInformation
SELECT @PersonID, p.FirstName, p.LastName, NULL, 'Consumer'
FROM [Person].[Person] AS p
INNER JOIN [Sales].[Customer] AS c
ON c.[PersonID] = p.[BusinessEntityID]
WHERE p.[BusinessEntityID] = @PersonID AND c.[StoreID] IS NULL;
END

RETURN;
END;
GO

```

## Depends On 7

-  HumanResources.Employee
-  Person.Person
-  Purchasing.Vendor
-  Person.BusinessEntityContact
-  Person.ContactType
-  Sales.Store
-  Sales.Customer

## Used By

No items found

## Scalar-Valued Functions

### Objects 10

Name	Description
<a href="#">dbo.ufnGetAccountingEndDate</a>	
<a href="#">dbo.ufnGetAccountingStartDate</a>	
<a href="#">dbo.ufnGetDocumentStatusText</a>	
<a href="#">dbo.ufnGetProductDealerPrice</a>	
<a href="#">dbo.ufnGetProductListPrice</a>	
<a href="#">dbo.ufnGetProductStandardCost</a>	
<a href="#">dbo.ufnGetPurchaseOrderStatusText</a>	
<a href="#">dbo.ufnGetSalesOrderStatusText</a>	
<a href="#">dbo.ufnGetStock</a>	
<a href="#">dbo.ufnLeadingZeros</a>	

# dbo.ufnGetAccountingEndDate

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetAccountingEndDate()
RETURNS [datetime]
AS
BEGIN
    RETURN DATEADD(millisecond, -2, CONVERT(datetime, '20040701', 112));
END;
GO
```

# dbo.ufnGetAccountingStartDate

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetAccountingStartDate()
RETURNS [datetime]
AS
BEGIN
    RETURN CONVERT(datetime, '20030701', 112);
END;
GO
```

# dbo.ufnGetDocumentStatusText

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	nvarchar	16	
@Status	tinyint	1	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetDocumentStatusText(@Status [tinyint])
RETURNS [nvarchar](16)
AS
-- Returns the sales order status text representation for the status value.
BEGIN
    DECLARE @ret [nvarchar](16);

    SET @ret =
        CASE @Status
            WHEN 1 THEN N'Pending approval'
            WHEN 2 THEN N'Approved'
            WHEN 3 THEN N'Obsolete'
            ELSE N'** Invalid **'
        END;

    RETURN @ret
END;
GO
```

# dbo.ufnGetProductDealerPrice

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	money	8	
@ProductID	int	4	
@OrderDate	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetProductDealerPrice(@ProductID [int], @OrderDate [datetime])
RETURNS [money]
AS
-- Returns the dealer price for the product on a specific date.
BEGIN
    DECLARE @DealerPrice money;
    DECLARE @DealerDiscount money;

    SET @DealerDiscount = 0.60 -- 60% of list price

    SELECT @DealerPrice = plph.[ListPrice] * @DealerDiscount
    FROM [Production].[Product] p
    INNER JOIN [Production].[ProductListPriceHistory] plph
    ON p.[ProductID] = plph.[ProductID]
    AND p.[ProductID] = @ProductID
    AND @OrderDate BETWEEN plph.[StartDate] AND COALESCE(plph.[EndDate], CONVERT(datetime, '
99991231', 112));
    -- Make sure we get all the prices!

    RETURN @DealerPrice;
END;
GO
```

# dbo.ufnGetProductListPrice

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	money	8	
@ProductID	int	4	
@OrderDate	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetProductListPrice(@ProductID [int], @OrderDate [datetime])
RETURNS [money]
AS
BEGIN
    DECLARE @ListPrice money;

    SELECT @ListPrice = plph.[ListPrice]
    FROM [Production].[Product] p
        INNER JOIN [Production].[ProductListPriceHistory] plph
            ON p.[ProductID] = plph.[ProductID]
            AND p.[ProductID] = @ProductID
            AND @OrderDate BETWEEN plph.[StartDate] AND COALESCE(plph.[EndDate], CONVERT(datetime, '99991231', 112));
    -- Make sure we get all the prices!

    RETURN @ListPrice;
END;
GO
```

# dbo.ufnGetProductStandardCost

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	money	8	
@ProductID	int	4	
@OrderDate	datetime	8	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetProductStandardCost(@ProductID [int], @OrderDate [datetime])
RETURNS [money]
AS
-- Returns the standard cost for the product on a specific date.
BEGIN
    DECLARE @StandardCost money;

    SELECT @StandardCost = pch.[StandardCost]
    FROM [Production].[Product] p
        INNER JOIN [Production].[ProductCostHistory] pch
            ON p.[ProductID] = pch.[ProductID]
            AND p.[ProductID] = @ProductID
            AND @OrderDate BETWEEN pch.[StartDate] AND COALESCE(pch.[EndDate], CONVERT(datetime, '
99991231', 112));
    -- Make sure we get all the prices!

    RETURN @StandardCost;
END;
GO
```



# dbo.ufnGetPurchaseOrderStatusText

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	nvarchar	15	
@Status	tinyint	1	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetPurchaseOrderStatusText(@Status [tinyint])
RETURNS [nvarchar](15)
AS
-- Returns the sales order status text representation for the status value.
BEGIN
    DECLARE @ret [nvarchar](15);

    SET @ret =
        CASE @Status
            WHEN 1 THEN 'Pending'
            WHEN 2 THEN 'Approved'
            WHEN 3 THEN 'Rejected'
            WHEN 4 THEN 'Complete'
            ELSE '** Invalid **'
        END;

    RETURN @ret
END;
GO
```

# dbo.ufnGetSalesOrderStatusText

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	nvarchar	15	
@Status	tinyint	1	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetSalesOrderStatusText(@Status [tinyint])
RETURNS [nvarchar](15)
AS
-- Returns the sales order status text representation for the status value.
BEGIN
    DECLARE @ret [nvarchar](15);

    SET @ret =
        CASE @Status
            WHEN 1 THEN 'In process'
            WHEN 2 THEN 'Approved'
            WHEN 3 THEN 'Backordered'
            WHEN 4 THEN 'Rejected'
            WHEN 5 THEN 'Shipped'
            WHEN 6 THEN 'Cancelled'
            ELSE '** Invalid **'
        END;

    RETURN @ret
END;
GO
```

# dbo.ufnGetStock

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	False
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	int	4	
@ProductID	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnGetStock(@ProductID [int])
RETURNS [int]
AS
-- Returns the stock level for the product. This function is used internally only
BEGIN
    DECLARE @ret int;

    SELECT @ret = SUM(p.[Quantity])
    FROM [Production].[ProductInventory] p
    WHERE p.[ProductID] = @ProductID
        AND p.[LocationID] = '6'; -- Only look at inventory in the misc storage

    IF (@ret IS NULL)
        SET @ret = 0

    RETURN @ret
END;
GO
```

# dbo.ufnLeadingZeros

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Execute As	
Null on Null Input	False
Schema Bound	True
Assembly	

## Parameters

Name	Data Type	Length	Description
(Result)	varchar	8	
@Value	int	4	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO

CREATE OR ALTER FUNCTION dbo.ufnLeadingZeros(
    @Value int
)
RETURNS varchar(8)
WITH SCHEMABINDING
AS
BEGIN
    DECLARE @ReturnValue varchar(8);

    SET @ReturnValue = CONVERT(varchar(8), @Value);
    SET @ReturnValue = REPLICATE('0', 8 - DATALENGTH(@ReturnValue)) + @ReturnValue;

    RETURN (@ReturnValue);
END;
GO
```

## Database Triggers

### Objects 1

Name	Description
<a href="#">ddlDatabaseTriggerLog</a>	

# ddlDatabaseTriggerLog

## Description

## Properties

Name	Value
ANSI Nulls ON	True
Quoted Identifier ON	True
Encrypted	False
Disabled	True
On	
Execute As	
Assembly	

## SQL Script

```
SET QUOTED_IDENTIFIER, ANSI_NULLS ON
GO
CREATE OR ALTER TRIGGER ddlDatabaseTriggerLog ON DATABASE
FOR DDL_DATABASE_LEVEL_EVENTS AS
BEGIN
    SET NOCOUNT ON;

    DECLARE @data XML;
    DECLARE @schema sysname;
    DECLARE @object sysname;
    DECLARE @eventType sysname;

    SET @data = EVENTDATA();
    SET @eventType = @data.value('/EVENT_INSTANCE/EventType[1]', 'sysname');
    SET @schema = @data.value('/EVENT_INSTANCE/SchemaName[1]', 'sysname');
    SET @object = @data.value('/EVENT_INSTANCE/ObjectName[1]', 'sysname')

    IF @object IS NOT NULL
        PRINT ' ' + @eventType + ' - ' + @schema + '.' + @object;
    ELSE
        PRINT ' ' + @eventType + ' - ' + @schema;

    IF @eventType IS NULL
        PRINT CONVERT(nvarchar(max), @data);

    INSERT [dbo].[DatabaseLog]
    (
        [PostTime],
        [DatabaseUser],
        [Event],
        [Schema],
        [Object],
        [TSQL],
        [XmlEvent]
    )
    VALUES
    (
        GETDATE(),
        CONVERT(sysname, CURRENT_USER),
        @eventType,
        CONVERT(sysname, @schema),
        CONVERT(sysname, @object),
        @data.value('/EVENT_INSTANCE/TSQLCommand[1]', 'nvarchar(max)'),
        @data
    );

```

```
END;  
GO
```

```
DISABLE TRIGGER ddlDatabaseTriggerLog ON DATABASE  
GO
```

## Types

### Objects 2

 [User-Defined Data Types](#)

 [XML Schema Collections](#)



## User-Defined Data Types

### Objects 6

Name	Description
<a href="#">dbo.AccountNumber</a>	
<a href="#">dbo.Flag</a>	
<a href="#">dbo.Name</a>	
<a href="#">dbo.NameStyle</a>	
<a href="#">dbo.OrderNumber</a>	
<a href="#">dbo.Phone</a>	

# dbo.AccountNumber

## Description

## Properties

Name	Value
Not Null	<b>False</b>
Base Type Name	nvarchar
Default	
Bound Rule	
Length	15



## SQL Script

```
CREATE TYPE dbo.AccountNumber FROM nvarchar(15)  
GO
```

## Depends On

No items found

## Used By 2

-  Purchasing.Vendor
-  Sales.SalesOrderHeader

# dbo.Flag

## Description

## Properties

Name	Value
Not Null	<b>True</b>
Base Type Name	bit
Default	
Bound Rule	
Length	1


## SQL Script

```
CREATE TYPE dbo.Flag FROM bit NOT NULL
GO
```

## Depends On

No items found

## Used By 9

-  HumanResources.Employee
-  Person.StateProvince
-  Production.Product
-  Production.ProductProductPhoto
-  Purchasing.Vendor
-  Sales.SalesOrderHeader
-  Person.vStateProvinceCountryRegion
-  HumanResources.uspUpdateEmployeeHireInfo
-  HumanResources.uspUpdateEmployeeLogin

# dbo.Name

## Description

## Properties

Name	Value
Not Null	<b>False</b>
Base Type Name	nvarchar
Default	
Bound Rule	
Length	50




























## SQL Script


















```
CREATE TYPE dbo.Name FROM nvarchar(50)
GO
```

## Depends On

No items found

## Used By 44

-  HumanResources.Department
-  HumanResources.Shift
-  Person.AddressType
-  Person.ContactType
-  Person.CountryRegion
-  Person.Person
-  Person.PhoneNumberType
-  Person.StateProvince
-  Production.Culture
-  Production.Location
-  Production.Product
-  Production.ProductCategory
-  Production.ProductModel
-  Production.ProductReview
-  Production.ProductSubcategory
-  Production.ScrapReason
-  Production.UnitMeasure
-  Purchasing.ShipMethod
-  Purchasing.Vendor
-  Sales.Currency
-  Sales.SalesReason
-  Sales.SalesTaxRate
-  Sales.SalesTerritory
-  Sales.Store
-  HumanResources.vEmployee
-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory

-  Person.vAdditionalContactInfo
-  Person.vStateProvinceCountryRegion
-  Production.vProductAndDescription
-  Production.vProductModelCatalogDescription
-  Production.vProductModelInstructions
-  Purchasing.vVendorWithAddresses
-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears
-  Sales.vStoreWithAddresses
-  Sales.vStoreWithContacts
-  Sales.vStoreWithDemographics
-  TABLE
-  dbo.uspGetBillOfMaterials
-  dbo.uspGetWhereUsedProductID
-  dbo.TestFUNC\_ENC

# dbo.NameStyle

## Description

## Properties

Name	Value
Not Null	<b>True</b>
Base Type Name	bit
Default	
Bound Rule	
Length	1

## SQL Script

```
CREATE TYPE dbo.NameStyle FROM bit NOT NULL  
GO
```

## Depends On

No items found

## Used By 1

 [Person.Person](#)

# dbo.OrderNumber

## Description

## Properties

Name	Value
Not Null	<b>False</b>
Base Type Name	nvarchar
Default	
Bound Rule	
Length	25

## SQL Script

```
CREATE TYPE dbo.OrderNumber FROM nvarchar(25)
GO
```

## Depends On

No items found

## Used By 1

 [Sales.SalesOrderHeader](#)

# dbo.Phone

## Description

## Properties

Name	Value
Not Null	<b>False</b>
Base Type Name	nvarchar
Default	
Bound Rule	
Length	25

## SQL Script

```
CREATE TYPE dbo.Phone FROM nvarchar(25)
GO
```

## Depends On

No items found

## Used By 6

-  Person.PersonPhone
-  HumanResources.vEmployee
-  Purchasing.vVendorWithContacts
-  Sales.vIndividualCustomer
-  Sales.vSalesPerson
-  Sales.vStoreWithContacts



## XML Schema Collections

### Objects 6

Name	Description
<a href="#">HumanResources.HRResumeSchemaCollection</a>	
<a href="#">Person.AdditionalContactInfoSchemaCollection</a>	
<a href="#">Person.IndividualSurveySchemaCollection</a>	
<a href="#">Production.ManulInstructionsSchemaCollection</a>	
<a href="#">Production.ProductDescriptionSchemaCollection</a>	
<a href="#">Sales.StoreSurveySchemaCollection</a>	

# HumanResources.HRRResumeSchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION HumanResources.HRRResumeSchemaCollection AS
```

```
N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/Resume" elementFormDefault="qualified"><xsd:element name="Address" type="t:AddressType" /><xsd:element name="Education" type="t:EducationType" /><xsd:element name="Employment" type="t:EmploymentType" /><xsd:element name="Location" type="t:LocationType" /><xsd:element name="Name" type="t:NameType" /><xsd:element name="Resume" type="t:ResumeType" /><xsd:element name="Telephone" type="t:TelephoneType" /><xsd:complexType name="AddressType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Addr.Type" type="xsd:string" /><xsd:element name="Addr.OrgName" type="xsd:string" minOccurs="0" /><xsd:element name="Addr.Street" type="xsd:string" maxOccurs="unbounded" /><xsd:element name="Addr.Location"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Location" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element><xsd:element name="Addr.PostalCode" type="xsd:string" /><xsd:element name="Addr.Telephone" minOccurs="0"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Telephone" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="EducationType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Edu.Level" type="xsd:string" /><xsd:element name="Edu.StartDate" type="xsd:date" /><xsd:element name="Edu.EndDate" type="xsd:date" /><xsd:element name="Edu.Degree" type="xsd:string" minOccurs="0" /><xsd:element name="Edu.Major" type="xsd:string" minOccurs="0" /><xsd:element name="Edu.Minor" type="xsd:string" minOccurs="0" /><xsd:element name="Edu.GPA" type="xsd:string" minOccurs="0" /><xsd:element name="Edu.GPAAlternate" type="xsd:decimal" minOccurs="0" /><xsd:element name="Edu.GPAScale" type="xsd:decimal" minOccurs="0" /><xsd:element name="Edu.School" type="xsd:string" minOccurs="0" /><xsd:element name="Edu.Location" minOccurs="0"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Location" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="EmploymentType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Emp.StartDate" type="xsd:date" minOccurs="0" /><xsd:element name="Emp.EndDate" type="xsd:date" minOccurs="0" /><xsd:element name="Emp.OrgName" type="xsd:string" /><xsd:element name="Emp.JobTitle" type="xsd:string" /><xsd:element name="Emp.Responsibility" type="xsd:string" /><xsd:element name="Emp.FunctionCategory" type="xsd:string" minOccurs="0" /><xsd:element name="Emp.IndustryCategory" type="xsd:string" minOccurs="0" /><xsd:element name="Emp.Location" minOccurs="0"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Location" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="LocationType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Loc.CountryRegion" type="xsd:string" /><xsd:element name="Loc.State" type="xsd:string" minOccurs="0" /><xsd:element name="Loc.City" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="NameType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Name.Prefix" type="xsd:string" minOccurs="0" /><xsd:element name="Name.First" type="xsd:string" /><xsd:element name="Name.Middle" type="xsd:string" minOccurs="0" /><xsd:element name="Name.Last" type="xsd:string" /><xsd:element name="Name.Suffix" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="ResumeType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Name" /><xsd:element name="Skills" type="xsd:string" minOccurs="0" /><xsd:element ref="t:Employment" maxOccurs="unbounded" /><xsd:element ref="t:Education" maxOccurs="unbounded" /><xsd:element ref="t:Address" maxOccurs="unbounded" /><xsd:element ref="t:Telephone" minOccurs="0" /><xsd:element name="EMail" type="xsd:string" minOccurs="0" /><xsd:element name="WebSite" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="TelephoneType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Tel.Type" type="xsd:anyType" minOccurs="0" /><xsd:element name="Tel.IntlCode" type="xsd:int" minOccurs="0" /><xsd:element name="Tel.AreaCode" type="xsd:int" minOccurs="0" /><xsd:element name="Tel.Number" type="xsd:string" /><xsd:element name="Tel.Extension" type="xsd:int" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:schema>
```

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## Depends On <sup>1</sup>

 HumanResources

Used By 1

 HumanResources.JobCandidate

# Person.AdditionalContactInfoSchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION Person.AdditionalContactInfoSchemaCollection AS

N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactInfo"><xsd:element name="AdditionalContactInfo"><xsd:complexType mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:any namespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactRecord http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:schema><xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactRecord" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactRecord"><xsd:element name="ContactRecord"><xsd:complexType mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:choice minOccurs="0" maxOccurs="unbounded"><xsd:any namespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes" /></xsd:choice><xsd:attribute name="date" type="xsd:date" /></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:schema><xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes" elementFormDefault="qualified"><xsd:element name="eMail" type="t:eMailType" /><xsd:element name="facsimileTelephoneNumber" type="t:phoneNumberType" /><xsd:element name="homePostalAddress" type="t:addressType" /><xsd:element name="internationaliSDNNNumber" type="t:phoneNumberType" /><xsd:element name="mobile" type="t:phoneNumberType" /><xsd:element name="pager" type="t:phoneNumberType" /><xsd:element name="physicalDeliveryOfficeName" type="t:addressType" /><xsd:element name="registeredAddress" type="t:addressType" /><xsd:element name="telephoneNumber" type="t:phoneNumberType" /><xsd:element name="telexNumber" type="t:phoneNumberType" /><xsd:complexType name="addressType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Street" type="xsd:string" maxOccurs="2" /><xsd:element name="City" type="xsd:string" /><xsd:element name="StateProvince" type="xsd:string" /><xsd:element name="PostalCode" type="xsd:string" minOccurs="0" /><xsd:element name="CountryRegion" type="xsd:string" /><xsd:element name="SpecialInstructions" type="t:specialInstructionsType" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="eMailType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="eMailAddress" type="xsd:string" /><xsd:element name="SpecialInstructions" type="t:specialInstructionsType" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="phoneNumberType"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="number"><xsd:simpleType><xsd:restriction base="xsd:string"><xsd:pattern value="[0-9\\(\\)\\-]*" /></xsd:restriction></xsd:simpleType></xsd:element><xsd:element name="SpecialInstructions" type="t:specialInstructionsType" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="specialInstructionsType" mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:any namespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ContactTypes" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:schema>'
```

60

## Depends On <sup>1</sup>

 [Person](#)

## Used By <sup>2</sup>

 [Person.Person](#)

 [HumanResources.vEmployee](#)

# Person.IndividualSurveySchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION Person.IndividualSurveySchemaCollection AS
```

```
N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/IndividualSurvey" elementFormDefault="qualified"><xsd:element name="IndividualSurvey"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="TotalPurchaseYTD" type="xsd:decimal" minOccurs="0" /><xsd:element name="DateFirstPurchase" type="xsd:date" minOccurs="0" /><xsd:element name="BirthDate" type="xsd:date" minOccurs="0" /><xsd:element name="MaritalStatus" type="xsd:string" minOccurs="0" /><xsd:element name="YearlyIncome" type="t:SalaryType" minOccurs="0" /><xsd:element name="Gender" type="xsd:string" minOccurs="0" /><xsd:element name="TotalChildren" type="xsd:int" minOccurs="0" /><xsd:element name="NumberChildrenAtHome" type="xsd:int" minOccurs="0" /><xsd:element name="Education" type="xsd:string" minOccurs="0" /><xsd:element name="Occupation" type="xsd:string" minOccurs="0" /><xsd:element name="HomeOwnerFlag" type="xsd:string" minOccurs="0" /><xsd:element name="NumberCarsOwned" type="xsd:int" minOccurs="0" /><xsd:element name="Hobby" type="xsd:string" minOccurs="0" maxOccurs="unbounded" /><xsd:element name="CommuteDistance" type="t:MileRangeType" minOccurs="0" /><xsd:element name="Comments" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element><xsd:simpleType name="MileRangeType"><xsd:restriction base="xsd:string"><xsd:enumeration value="0-1 Miles" /><xsd:enumeration value="1-2 Miles" /><xsd:enumeration value="2-5 Miles" /><xsd:enumeration value="5-10 Miles" /><xsd:enumeration value="10+ Miles" /></xsd:restriction></xsd:simpleType><xsd:simpleType name="SalaryType"><xsd:restriction base="xsd:string"><xsd:enumeration value="0-25000" /><xsd:enumeration value="25001-50000" /><xsd:enumeration value="50001-75000" /><xsd:enumeration value="75001-100000" /><xsd:enumeration value="greater than 100000" /></xsd:restriction></xsd:simpleType></xsd:schema>'
```

GO

## Depends On <sup>1</sup>

 Person

## Used By <sup>2</sup>

 Person.Person

 Sales.vIndividualCustomer

# Production.ManuInstructionsSchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION Production.ManuInstructionsSchemaCollection AS
```

```
N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelManuInstructions" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelManuInstructions" elementFormDefault="qualified"><xsd:element name="root"><xsd:complexType mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Location" maxOccurs="unbounded"><xsd:complexType mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="step" type="t:StepType" maxOccurs="unbounded" /></xsd:sequence><xsd:attribute name="LocationID" type="xsd:integer" use="required" /><xsd:attribute name="SetupHours" type="xsd:decimal" /><xsd:attribute name="MachineHours" type="xsd:decimal" /><xsd:attribute name="LaborHours" type="xsd:decimal" /><xsd:attribute name="LotSize" type="xsd:decimal" /></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element><xsd:complexType name="StepType" mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:choice minOccurs="0" maxOccurs="unbounded"><xsd:element name="tool" type="xsd:string" /><xsd:element name="material" type="xsd:string" /><xsd:element name="blueprint" type="xsd:string" /><xsd:element name="specs" type="xsd:string" /><xsd:element name="diag" type="xsd:string" /></xsd:choice></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:schema>'
```

GO

## Depends On <sup>1</sup>

 Production

## Used By <sup>1</sup>

 Production.ProductModel

# Production.ProductDescriptionSchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION Production.ProductDescriptionSchemaCollection AS
```

```
N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelWarrAndMain" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelWarrAndMain" elementFormDefault="qualified"><xsd:element name="Maintenance"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="NoOfYears" type="xsd:string" /><xsd:element name="Description" type="xsd:string" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element><xsd:element name="Warranty"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="WarrantyPeriod" type="xsd:string" /><xsd:element name="Description" type="xsd:string" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element></xsd:schema><xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:ns1="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelWarrAndMain" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelDescription" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelDescription" elementFormDefault="qualified"><xsd:import namespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/ProductModelWarrAndMain" /><xsd:element name="Code" type="xsd:string" /><xsd:element name="Description" type="xsd:string" /><xsd:element name="ProductDescription" type="t:ProductDescription" /><xsd:element name="Taxonomy" type="xsd:string" /><xsd:complexType name="Category"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="t:Taxonomy" /><xsd:element ref="t:Code" /><xsd:element ref="t:Description" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="Features" mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element ref="ns1:Warranty" /><xsd:element ref="ns1:Maintenance" /><xsd:any namespace="##other" processContents="skip" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="Manufacturer"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Name" type="xsd:string" minOccurs="0" /><xsd:element name="CopyrightURL" type="xsd:string" minOccurs="0" /><xsd:element name="Copyright" type="xsd:string" minOccurs="0" /><xsd:element name="ProductURL" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="Picture"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Name" type="xsd:string" minOccurs="0" /><xsd:element name="Angle" type="xsd:string" minOccurs="0" /><xsd:element name="Size" type="xsd:string" minOccurs="0" /><xsd:element name="ProductPhotoID" type="xsd:integer" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="ProductDescription"><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="Summary" type="t:Summary" minOccurs="0" /><xsd:element name="Manufacturer" type="t:Manufacturer" minOccurs="0" /><xsd:element name="Features" type="t:Features" minOccurs="0" maxOccurs="unbounded" /><xsd:element name="Picture" type="t:Picture" minOccurs="0" maxOccurs="unbounded" /><xsd:element name="Category" type="t:Category" minOccurs="0" maxOccurs="unbounded" /><xsd:element name="Specifications" type="t:Specifications" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence><xsd:attribute name="ProductModelID" type="xsd:string" /><xsd:attribute name="ProductModelName" type="xsd:string" /></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="Specifications" mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:any processContents="skip" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType><xsd:complexType name="Summary" mixed="true"><xsd:complexContent mixed="true"><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:any namespace="http://www.w3.org/1999/xhtml" processContents="skip" minOccurs="0" maxOccurs="unbounded" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:schema>'
```

GO

## Depends On <sup>1</sup>

 Production

## Used By <sup>1</sup>

 Production.ProductModel

# Sales.StoreSurveySchemaCollection

## Description

## Dependent Message Types

No items found

## SQL Script

```
CREATE XML SCHEMA COLLECTION Sales.StoreSurveySchemaCollection AS
```

```
N'<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:t="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey" targetNamespace="http://schemas.microsoft.com/sqlserver/2004/07/adventure-works/StoreSurvey" elementFormDefault="qualified"><xsd:element name="StoreSurvey"><xsd:complexType><xsd:complexContent><xsd:restriction base="xsd:anyType"><xsd:sequence><xsd:element name="ContactName" type="xsd:string" minOccurs="0" /><xsd:element name="JobTitle" type="xsd:string" minOccurs="0" /><xsd:element name="AnnualSales" type="xsd:decimal" minOccurs="0" /><xsd:element name="AnnualRevenue" type="xsd:decimal" minOccurs="0" /><xsd:element name="BankName" type="xsd:string" minOccurs="0" /><xsd:element name="BusinessType" type="t:BusinessType" minOccurs="0" /><xsd:element name="YearOpened" type="xsd:gYear" minOccurs="0" /><xsd:element name="Specialty" type="t:SpecialtyType" minOccurs="0" /><xsd:element name="SquareFeet" type="xsd:float" minOccurs="0" /><xsd:element name="Brands" type="t:BrandType" minOccurs="0" /><xsd:element name="Internet" type="t:InternetType" minOccurs="0" /><xsd:element name="NumberEmployees" type="xsd:int" minOccurs="0" /><xsd:element name="Comments" type="xsd:string" minOccurs="0" /></xsd:sequence></xsd:restriction></xsd:complexContent></xsd:complexType></xsd:element><xsd:simpleType name="BrandType"><xsd:restriction base="xsd:string"><xsd:enumeration value="AW" /><xsd:enumeration value="2" /><xsd:enumeration value="3" /><xsd:enumeration value="4+" /></xsd:restriction></xsd:simpleType><xsd:simpleType name="BusinessType"><xsd:restriction base="xsd:string"><xsd:enumeration value="BM" /><xsd:enumeration value="BS" /><xsd:enumeration value="D" /><xsd:enumeration value="OS" /><xsd:enumeration value="SGS" /></xsd:restriction></xsd:simpleType><xsd:simpleType name="InternetType"><xsd:restriction base="xsd:string"><xsd:enumeration value="56kb" /><xsd:enumeration value="ISDN" /><xsd:enumeration value="DSL" /><xsd:enumeration value="T1" /><xsd:enumeration value="T2" /><xsd:enumeration value="T3" /></xsd:restriction></xsd:simpleType><xsd:simpleType name="SpecialtyType"><xsd:restriction base="xsd:string"><xsd:enumeration value="Family" /><xsd:enumeration value="Kids" /><xsd:enumeration value="BMX" /><xsd:enumeration value="Touring" /><xsd:enumeration value="Road" /><xsd:enumeration value="Mountain" /><xsd:enumeration value="All" /></xsd:restriction></xsd:simpleType></xsd:schema>'
```

GO

## Depends On <sup>1</sup>

 Sales

## Used By <sup>1</sup>

 Sales.Store



# Security


## Objects 2

 Roles

 Schemas

## Roles

### Objects 1

 Database Roles

## Database Roles

### Objects 10

Name	Description
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	
db_denydatareader	
db_denydatawriter	
db_owner	
db_securityadmin	
public	

# db\_accessadmin

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_accessadmin  
GO
```

## Depends On 1

 dbo

## Used By

No items found

# db\_backupoperator

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_backupoperator  
GO
```

## Depends On <sup>1</sup>

 dbo

## Used By

No items found

# db\_datareader

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_datareader  
GO
```

## Depends On 1

 dbo

## Used By

No items found

# db\_datawriter

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_datawriter  
GO
```

## Depends On 1

 dbo

## Used By

No items found

# db\_ddladmin

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_ddladmin  
GO
```

## Depends On 1

 dbo

## Used By

No items found



# db\_denydatareader

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_denydatareader  
GO
```

## Depends On 1

 dbo

## Used By

No items found

# db\_denydatawriter

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_denydatawriter  
GO
```

## Depends On <sup>1</sup>

 dbo

## Used By

No items found

# db\_owner

## Properties

Name	Value
Owner	dbo

## Members 1

dbo

## SQL Script

```
CREATE ROLE db_owner
GO

EXEC sp_addrolemember N'db_owner', N'dbo'
GO
```

## Depends On 1

 dbo

## Used By

No items found

# db\_securityadmin

## Properties

Name	Value
Owner	dbo

## Members

No items found

## SQL Script

```
CREATE ROLE db_securityadmin  
GO
```

## Depends On <sup>1</sup>

 dbo

## Used By

No items found

# public

## Properties

Name	Value
Owner	dbo

## Members

No items found

## Database Level Permissions

Type	Action
Grant	VIEW ANY COLUMN ENCRYPTION KEY DEFINITION
Grant	VIEW ANY COLUMN MASTER KEY DEFINITION

## SQL Script

```
CREATE ROLE [public]
GO
```

## Depends On 1

 dbo

## Used By

No items found

## Schemas

### Objects 18

Name	Description
db_accessadmin	
db_backupoperator	
db_datareader	
db_datawriter	
db_ddladmin	
db_denydatareader	
db_denydatawriter	
db_owner	
db_securityadmin	
dbo	
guest	
HumanResources	
INFORMATION_SCHEMA	
Person	
Production	
Purchasing	
Sales	
sys	

## db\_accessadmin

### Properties

Name	Value
Owner	db_accessadmin

### SQL Script

```
CREATE SCHEMA db_accessadmin AUTHORIZATION db_accessadmin  
GO
```

### Depends On

No items found

### Used By

No items found

# db\_backupoperator

## Properties

Name	Value
Owner	db_backupoperator

## SQL Script

```
CREATE SCHEMA db_backupoperator AUTHORIZATION db_backupoperator  
GO
```

## Depends On

No items found

## Used By

No items found



# db\_datareader

## Properties

Name	Value
Owner	db_datareader

## SQL Script

```
CREATE SCHEMA db_datareader AUTHORIZATION db_datareader  
GO
```

## Depends On

No items found

## Used By

No items found

## db\_datawriter

### Properties

Name	Value
Owner	db_datawriter

### SQL Script

```
CREATE SCHEMA db_datawriter AUTHORIZATION db_datawriter
GO
```

### Depends On

No items found

### Used By

No items found

# db\_ddladmin

## Properties

Name	Value
Owner	db_ddladmin

## SQL Script

```
CREATE SCHEMA db_ddladmin AUTHORIZATION db_ddladmin
GO
```

## Depends On

No items found

## Used By

No items found

# db\_denydatareader

## Properties

Name	Value
Owner	db_denydatareader

## SQL Script

```
CREATE SCHEMA db_denydatareader AUTHORIZATION db_denydatareader  
GO
```

## Depends On

No items found

## Used By

No items found

# db\_denydatawriter

## Properties

Name	Value
Owner	db_denydatawriter

## SQL Script

```
CREATE SCHEMA db_denydatawriter AUTHORIZATION db_denydatawriter  
GO
```

## Depends On

No items found

## Used By

No items found

## db\_owner

### Properties

Name	Value
Owner	db_owner

### SQL Script

```
CREATE SCHEMA db_owner AUTHORIZATION db_owner  
GO
```

### Depends On

No items found

### Used By

No items found

## db\_securityadmin

### Properties

Name	Value
Owner	db_securityadmin

### SQL Script

```
CREATE SCHEMA db_securityadmin AUTHORIZATION db_securityadmin
GO
```

### Depends On

No items found

### Used By

No items found

# dbo

## Description

## Properties

Name	Value
Owner	dbo

## SQL Script

```
CREATE SCHEMA dbo AUTHORIZATION dbo
GO
```

## Depends On

No items found

## Used By

No items found



# guest

## Description

## Properties

Name	Value
Owner	guest

## SQL Script

```
CREATE SCHEMA guest AUTHORIZATION guest  
GO
```

## Depends On

No items found

## Used By

No items found

# HumanResources

## Description

## Properties

Name	Value
Owner	dbo









## SQL Script

```
CREATE SCHEMA HumanResources AUTHORIZATION dbo
GO
```

## Depends On 1

-  dbo

## Used By 17

-  HumanResources.Department
-  HumanResources.Employee
-  HumanResources.EmployeeDepartmentHistory
-  HumanResources.EmployeePayHistory
-  HumanResources.JobCandidate
-  HumanResources.Shift
-  HumanResources.vEmployee
-  HumanResources.vEmployeeDepartment
-  HumanResources.vEmployeeDepartmentHistory
-  HumanResources.vJobCandidate
-  HumanResources.vJobCandidateEducation
-  HumanResources.vJobCandidateEmployment
-  HumanResources.uspUpdateEmployeeHireInfo
-  HumanResources.uspUpdateEmployeeLogin
-  HumanResources.uspUpdateEmployeePersonalInfo
-  HumanResources.dEmployee
-  HumanResources.HRRResumeSchemaCollection

# INFORMATION\_SCHEMA

## Properties

Name	Value
Owner	INFORMATION_SCHEMA

## SQL Script

```
CREATE SCHEMA INFORMATION_SCHEMA AUTHORIZATION INFORMATION_SCHEMA  
GO
```

## Depends On

No items found

## Used By

No items found

# Person

## Description

## Properties

Name	Value
Owner	dbo



















## SQL Script

```
CREATE SCHEMA Person AUTHORIZATION dbo
GO
```

## Depends On 1

-  dbo

## Used By 18

-  Person.Address
-  Person.AddressType
-  Person.BusinessEntity
-  Person.BusinessEntityAddress
-  Person.BusinessEntityContact
-  Person.ContactType
-  Person.CountryRegion
-  Person.EmailAddress
-  Person.Password
-  Person.Person
-  Person.PersonPhone
-  Person.PhoneNumberType
-  Person.StateProvince
-  Person.vAdditionalContactInfo
-  Person.vStateProvinceCountryRegion
-  Person.iuPerson
-  Person.AdditionalContactInfoSchemaCollection
-  Person.IndividualSurveySchemaCollection

# Production

## Description

## Properties

Name	Value
Owner	dbo
































## SQL Script

```
CREATE SCHEMA Production AUTHORIZATION dbo
GO
```

## Depends On 1

-  dbo

## Used By 32

-  Production.BillOfMaterials
-  Production.Culture
-  Production.Document
-  Production.Illustration
-  Production.Location
-  Production.Product
-  Production.ProductCategory
-  Production.ProductCostHistory
-  Production.ProductDescription
-  Production.ProductDocument
-  Production.ProductInventory
-  Production.ProductListPriceHistory
-  Production.ProductModel
-  Production.ProductModelIllustration
-  Production.ProductModelProductDescriptionCulture
-  Production.ProductPhoto
-  Production.ProductProductPhoto
-  Production.ProductReview
-  Production.ProductSubcategory
-  Production.ScrapReason
-  Production.TransactionHistory
-  Production.TransactionHistoryArchive
-  Production.UnitMeasure
-  Production.WorkOrder
-  Production.WorkOrderRouting
-  Production.vProductAndDescription
-  Production.vProductModelCatalogDescription
-  Production.vProductModelInstructions
-  Production.iWorkOrder
-  Production.uWorkOrder
-  Production.ManuInstructionsSchemaCollection
-  Production.ProductDescriptionSchemaCollection



# Purchasing

## Description

## Properties

Name	Value
Owner	dbo












## SQL Script

```
CREATE SCHEMA Purchasing AUTHORIZATION dbo
GO
```

## Depends On 1

-  dbo

## Used By 11

-  Purchasing.ProductVendor
-  Purchasing.PurchaseOrderDetail
-  Purchasing.PurchaseOrderHeader
-  Purchasing.ShipMethod
-  Purchasing.Vendor
-  Purchasing.vVendorWithAddresses
-  Purchasing.vVendorWithContacts
-  Purchasing.dVendor
-  Purchasing.iPurchaseOrderDetail
-  Purchasing.uPurchaseOrderDetail
-  Purchasing.uPurchaseOrderHeader

# Sales

## Description

## Properties

Name	Value
Owner	dbo






























## SQL Script

```
CREATE SCHEMA Sales AUTHORIZATION dbo
GO
```

## Depends On 1

-  dbo

## Used By 29

-  Sales.CountryRegionCurrency
-  Sales.CreditCard
-  Sales.Currency
-  Sales.CurrencyRate
-  Sales.Customer
-  Sales.PersonCreditCard
-  Sales.SalesOrderDetail
-  Sales.SalesOrderHeader
-  Sales.SalesOrderHeaderSalesReason
-  Sales.SalesPerson
-  Sales.SalesPersonQuotaHistory
-  Sales.SalesReason
-  Sales.SalesTaxRate
-  Sales.SalesTerritory
-  Sales.SalesTerritoryHistory
-  Sales.ShoppingCartItem
-  Sales.SpecialOffer
-  Sales.SpecialOfferProduct
-  Sales.Store
-  Sales.vIndividualCustomer
-  Sales.vPersonDemographics
-  Sales.vSalesPerson
-  Sales.vSalesPersonSalesByFiscalYears
-  Sales.vStoreWithAddresses
-  Sales.vStoreWithContacts
-  Sales.vStoreWithDemographics
-  Sales.iduSalesOrderDetail
-  Sales.usalesOrderHeader
-  Sales.StoreSurveySchemaCollection



## sys

### Properties

Name	Value
Owner	sys

### SQL Script

```
CREATE SCHEMA sys AUTHORIZATION sys
GO
```

### Depends On

No items found

### Used By

No items found