



SAKILA

Documentation for the sakila database

Servers

Servers ¹

[sakila.Production](#)

sakila.Production

Databases 1

sakila

Properties

Name	Value
Product	MySQL
Version	5.6.38
Version Comment	MySQL Community Server (GPL)
Version Compile Machine	x86_64
Version Compile Os	Linux
Collation	latin1_swedish_ci
Hostname	dbfmysqlast
Port	3309
Base Directory	/usr/

Databases

Databases 1





[sakila](#)



Properties

Name	Value
Collation	latin1_swedish_ci

Object Types 5

-  Tables
-  Views
-  Procedures
-  Functions
-  Triggers

Tables

Objects 17

Name	Description
actor	
address	
category	
city	
country	
customer	
film	
film_actor	
film_category	
film_text	
inventory	
language	
payment	
rental	
staff	Contains information on the staff members, including ID, photo, address, etc.
store	
wp_payments	



actor

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	201
Average Row Length	81
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	actor_id	SMALLINT		5		True	True		N/S	True	False	False	
	first_name	VARCHAR	45			True	False		N/S	False	False	False	
	last_name	VARCHAR	45			True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_actor_last_name	last_name	False	BTREE	
	PRIMARY	actor_id	True	BTREE	

SQL Script

```
CREATE TABLE actor (
  actor_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,
  first_name VARCHAR(45) NOT NULL,
  last_name VARCHAR(45) NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
```

```
PRIMARY KEY (actor_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
ALTER TABLE actor
ADD INDEX idx_actor_last_name(last_name);
```

Depends On

No items found

Used By ⁴

[film_actor](#)

[actor_info](#)

[film_list](#)

[nicer_but_slower_film_list](#)



address

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	606
Average Row Length	135
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	address_id	SMALLINT		5		True	True		N/S	True	False	False	
	address	VARCHAR	50			True	False		N/S	False	False	False	
	address2	VARCHAR	50			False	False	NULL	N/S	False	False	False	
	district	VARCHAR	20			True	False		N/S	False	False	False	
	city_id	SMALLINT		5		True	False		N/S	True	False	False	
	postal_code	VARCHAR	10			False	False	NULL	N/S	False	False	False	
	phone	VARCHAR	20			True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_city_id	city_id	False	BTREE	
	PRIMARY	address_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_address_city	city_id	RESTRICT	CASCADE

SQL Script

```
CREATE TABLE address (  
  address_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,  
  address VARCHAR(50) NOT NULL,  
  address2 VARCHAR(50) DEFAULT NULL,  
  district VARCHAR(20) NOT NULL,  
  city_id SMALLINT(5) UNSIGNED NOT NULL,  
  postal_code VARCHAR(10) DEFAULT NULL,  
  phone VARCHAR(20) NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (address_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE address  
  ADD CONSTRAINT fk_address_city FOREIGN KEY (city_id)  
  REFERENCES city(city_id) ON UPDATE CASCADE;
```

Depends On 1

city

Used By 6

customer
staff
store
customer_list
sales_by_store
staff_list


category

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	17
Average Row Length	1024
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	category_id	TINYINT		3		True	True		N/S	True	False	False	
	name	VARCHAR	25			True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	PRIMARY	category_id	True	BTREE	

SQL Script

```
CREATE TABLE category (
  category_id TINYINT(3) UNSIGNED NOT NULL AUTO_INCREMENT,
  name VARCHAR(25) NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (category_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
```

Depends On

No items found

Used By 5

[film_category](#)

[actor_info](#)

[film_list](#)

[nicer_but_slower_film_list](#)

[sales_by_film_category](#)



city

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	601
Average Row Length	81
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	city_id	SMALLINT		5		True	True		N/S	True	False	False	
	city	VARCHAR	50			True	False		N/S	False	False	False	
	country_id	SMALLINT		5		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_country_id	country_id	False	BTREE	
	PRIMARY	city_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_city_country	country_id	RESTRICT	CASCADE

SQL Script

```
CREATE TABLE city (  
  city_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,  
  city VARCHAR(50) NOT NULL,  
  country_id SMALLINT(5) UNSIGNED NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (city_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE city  
  ADD CONSTRAINT fk_city_country FOREIGN KEY (country_id)  
  REFERENCES country(country_id) ON UPDATE CASCADE;
```

Depends On ¹

country

Used By ⁴

address
customer_list
sales_by_store
staff_list


country

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	110
Average Row Length	150
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	country_id	SMALLINT		5		True	True		N/S	True	False	False	
	country	VARCHAR	50			True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	PRIMARY	country_id	True	BTREE	

SQL Script

```
CREATE TABLE country (
  country_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,
  country VARCHAR(50) NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (country_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
```

Depends On

No items found

Used By 4

[city](#)

[customer_list](#)

[sales_by_store](#)

[staff_list](#)





customer

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	600
Average Row Length	136
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	customer_id	SMALLINT		5		True	True		N/S	True	False	False	
	store_id	TINYINT		3		True	False		N/S	True	False	False	
	first_name	VARCHAR	45			True	False		N/S	False	False	False	
	last_name	VARCHAR	45			True	False		N/S	False	False	False	
	email	VARCHAR	50			False	False	NULL	N/S	False	False	False	
	address_id	SMALLINT		5		True	False		N/S	True	False	False	
	active	TINYINT		1		True	False	1	N/S	False	False	False	
	create_date	DATETIME			7	True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
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	idx_fk_address_id	address_id	False	BTREE	
	idx_fk_store_id	store_id	False	BTREE	
	idx_last_name	last_name	False	BTREE	
🔑	PRIMARY	customer_id	True	BTREE	

Triggers

Name	Type	Event	Security	Definer
customer_create_date	BEFORE	INSERT	Definer	root@localhost

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_customer_address	address_id	RESTRICT	CASCADE
fk_customer_store	store_id	RESTRICT	CASCADE

SQL Script

```

CREATE TABLE customer (
  customer_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,
  store_id TINYINT(3) UNSIGNED NOT NULL,
  first_name VARCHAR(45) NOT NULL,
  last_name VARCHAR(45) NOT NULL,
  email VARCHAR(50) DEFAULT NULL,
  address_id SMALLINT(5) UNSIGNED NOT NULL,
  active TINYINT(1) NOT NULL DEFAULT 1,
  create_date DATETIME NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (customer_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
ALTER TABLE customer
  ADD INDEX idx_last_name(last_name);
ALTER TABLE customer
  ADD CONSTRAINT fk_customer_address FOREIGN KEY (address_id)
  REFERENCES address(address_id) ON UPDATE CASCADE;
ALTER TABLE customer
  ADD CONSTRAINT fk_customer_store FOREIGN KEY (store_id)
  REFERENCES store(store_id) ON UPDATE CASCADE;

```

Depends On 2

address
store

Used By 5

customer_create_date
payment
rental
customer_list
rewards_report







Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	1001
Average Row Length	196
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	film_id	SMALLINT		5		True	True		N/S	True	False	False	
	title	VARCHAR	255			True	False		N/S	False	False	False	
	description	TEXT	0			False	False	NULL	N/S	False	False	False	
	release_year	YEAR	4			False	False	NULL	N/S	False	False	False	
	language_id	TINYINT		3		True	False		N/S	True	False	False	
	original_language_id	TINYINT		3		False	False	NULL	N/S	True	False	False	
	rental_duration	TINYINT		3		True	False	3	N/S	True	False	False	
	rental_rate	DECIMAL		4	2	True	False	4.99	N/S	False	False	False	
	length	SMALLINT		5		False	False	NULL	N/S	True	False	False	
	replacement_cost	DECIMAL		5	2	True	False	19.99	N/S	False	False	False	
	rating	ENUM				False	False	'G'	N/S	False	False	False	
	special_features	SET				False	False	NULL	N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_language_id	language_id	False	BTREE	
	idx_fk_original_language_id	original_language_id	False	BTREE	
	idx_title	title	False	BTREE	
🔑	PRIMARY	film_id	True	BTREE	

Triggers

Name	Type	Event	Security	Definer
del_film	AFTER	DELETE	Definer	root@localhost
ins_film	AFTER	INSERT	Definer	root@localhost
upd_film	AFTER	UPDATE	Definer	root@localhost

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_film_language	language_id	RESTRICT	CASCADE
fk_film_language_original	language_id	RESTRICT	CASCADE

SQL Script

```
CREATE TABLE film (  
  film_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,  
  title VARCHAR(255) NOT NULL,  
  description TEXT DEFAULT NULL,  
  release_year YEAR(4) DEFAULT NULL,  
  language_id TINYINT(3) UNSIGNED NOT NULL,  
  original_language_id TINYINT(3) UNSIGNED DEFAULT NULL,  
  rental_duration TINYINT(3) UNSIGNED NOT NULL DEFAULT 3,  
  rental_rate DECIMAL(4, 2) NOT NULL DEFAULT 4.99,  
  length SMALLINT(5) UNSIGNED DEFAULT NULL,  
  replacement_cost DECIMAL(5, 2) NOT NULL DEFAULT 19.99,  
  rating ENUM('G', 'PG', 'PG-13', 'R', 'NC-17') DEFAULT 'G',  
  special_features SET('Trailers', 'Commentaries', 'Deleted Scenes', 'Behind the Scenes') DEFAULT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (film_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE film  
  ADD INDEX idx_title(title);  
ALTER TABLE film  
  ADD CONSTRAINT fk_film_language FOREIGN KEY (language_id)  
    REFERENCES language(language_id) ON UPDATE CASCADE;  
ALTER TABLE film  
  ADD CONSTRAINT fk_film_language_original FOREIGN KEY (original_language_id)  
    REFERENCES language(language_id) ON UPDATE CASCADE;
```

Depends On 2

language
film_text

Used By 11

del_film
ins_film
upd_film
film_actor
film_category
inventory
actor_info

film_list
nicer_but_slower_film_list
sales_by_film_category
get_customer_balance







film_actor

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	0
Average Row Length	35
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
  	actor_id	SMALLINT		5		True	False		N/S	True	False	False	
  	film_id	SMALLINT		5		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_film_id	film_id	False	BTREE	
	PRIMARY	actor_id, film_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_film_actor_actor	actor_id	RESTRICT	CASCADE

fk_film_actor_film	film_id	RESTRICT	CASCADE
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SQL Script

```
CREATE TABLE film_actor (  
  actor_id SMALLINT(5) UNSIGNED NOT NULL,  
  film_id SMALLINT(5) UNSIGNED NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (actor_id, film_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE film_actor  
  ADD CONSTRAINT fk_film_actor_actor FOREIGN KEY (actor_id)  
  REFERENCES actor(actor_id) ON UPDATE CASCADE;  
ALTER TABLE film_actor  
  ADD CONSTRAINT fk_film_actor_film FOREIGN KEY (film_id)  
  REFERENCES film(film_id) ON UPDATE CASCADE;
```

Depends On ²

[actor](#)
[film](#)

Used By ³

[actor_info](#)
[film_list](#)
[nicer_but_slower_film_list](#)



film_category

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	0
Average Row Length	65
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	film_id	SMALLINT		5		True	False		N/S	True	False	False	
	category_id	TINYINT		3		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	fk_film_category_category	category_id	False	BTREE	
	PRIMARY	film_id, category_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_film_category_category	category_id	RESTRICT	CASCADE

fk_film_category_film	film_id	RESTRICT	CASCADE
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SQL Script

```
CREATE TABLE film_category (  
  film_id SMALLINT(5) UNSIGNED NOT NULL,  
  category_id TINYINT(3) UNSIGNED NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (film_id, category_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE film_category  
  ADD CONSTRAINT fk_film_category_category FOREIGN KEY (category_id)  
    REFERENCES category(category_id) ON UPDATE CASCADE;  
ALTER TABLE film_category  
  ADD CONSTRAINT fk_film_category_film FOREIGN KEY (film_id)  
    REFERENCES film(film_id) ON UPDATE CASCADE;
```

Depends On 2

category
film

Used By 4

actor_info
film_list
nicer_but_slower_film_list
sales_by_film_category




film_text

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	0
Average Row Length	180
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	film_id	SMALLINT		6		True	False		N/S	False	False	False	
	title	VARCHAR	255			True	False		N/S	False	False	False	
	description	TEXT	0			False	False	NULL	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_title_description	description, title	False	FULLTEXT	
	PRIMARY	film_id	True	BTREE	

SQL Script

```
CREATE TABLE film_text (
  film_id SMALLINT(6) NOT NULL,
  title VARCHAR(255) NOT NULL,
  description TEXT DEFAULT NULL,
```

```
PRIMARY KEY (film_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
ALTER TABLE film_text
ADD FULLTEXT INDEX idx_title_description(description, title);
```

Depends On

No items found

Used By 4

- film
- del_film
- ins_film
- upd_film




inventory

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	4582
Average Row Length	39
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	inventory_id	MEDIUMINT		8		True	True		N/S	True	False	False	
	film_id	SMALLINT		5		True	False		N/S	True	False	False	
	store_id	TINYINT		3		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_film_id	film_id	False	BTREE	
	idx_store_id_film_id	film_id, store_id	False	BTREE	
	PRIMARY	inventory_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
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fk_inventory_film	film_id	RESTRICT	CASCADE
fk_inventory_store	store_id	RESTRICT	CASCADE

SQL Script

```
CREATE TABLE inventory (  
  inventory_id MEDIUMINT(8) UNSIGNED NOT NULL AUTO_INCREMENT,  
  film_id SMALLINT(5) UNSIGNED NOT NULL,  
  store_id TINYINT(3) UNSIGNED NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (inventory_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE inventory  
  ADD INDEX idx_store_id_film_id(film_id, store_id);  
ALTER TABLE inventory  
  ADD CONSTRAINT fk_inventory_film FOREIGN KEY (film_id)  
    REFERENCES film(film_id) ON UPDATE CASCADE;  
ALTER TABLE inventory  
  ADD CONSTRAINT fk_inventory_store FOREIGN KEY (store_id)  
    REFERENCES store(store_id) ON UPDATE CASCADE;
```

Depends On 2

film
store

Used By 7

rental
sales_by_film_category
sales_by_store
film_in_stock
film_not_in_stock
get_customer_balance
inventory_in_stock


language

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	7
Average Row Length	2730
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	language_id	TINYINT		3		True	True		N/S	True	False	False	
	name	CHAR	20			True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	PRIMARY	language_id	True	BTREE	

SQL Script

```
CREATE TABLE language (
  language_id TINYINT(3) UNSIGNED NOT NULL AUTO_INCREMENT,
  name CHAR(20) NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (language_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
```

Depends On

No items found

Used By ¹

film





payment

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	16050
Average Row Length	98
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	payment_id	SMALLINT		5		True	True		N/S	True	False	False	
	customer_id	SMALLINT		5		True	False		N/S	True	False	False	
	staff_id	TINYINT		3		True	False		N/S	True	False	False	
	rental_id	INT		11		False	False	NULL	N/S	False	False	False	
	amount	DECIMAL		5	2	True	False		N/S	False	False	False	
	payment_date	DATETIME			7	True	False		N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	fk_payment_rental	rental_id	False	BTREE	
	idx_fk_customer_id	customer_id	False	BTREE	

	idx_fk_staff_id	staff_id	False	BTREE	
🔑	PRIMARY	payment_id	True	BTREE	

Triggers

Name	Type	Event	Security	Definer
payment_date	BEFORE	INSERT	Definer	root@localhost

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_payment_customer	customer_id	RESTRICT	CASCADE
fk_payment_rental	rental_id	SET NULL	CASCADE
fk_payment_staff	staff_id	RESTRICT	CASCADE

SQL Script

```

CREATE TABLE payment (
  payment_id SMALLINT(5) UNSIGNED NOT NULL AUTO_INCREMENT,
  customer_id SMALLINT(5) UNSIGNED NOT NULL,
  staff_id TINYINT(3) UNSIGNED NOT NULL,
  rental_id INT(11) DEFAULT NULL,
  amount DECIMAL(5, 2) NOT NULL,
  payment_date DATETIME NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (payment_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
ALTER TABLE payment
  ADD CONSTRAINT fk_payment_customer FOREIGN KEY (customer_id)
    REFERENCES customer(customer_id) ON UPDATE CASCADE;
ALTER TABLE payment
  ADD CONSTRAINT fk_payment_rental FOREIGN KEY (rental_id)
    REFERENCES rental(rental_id) ON DELETE SET NULL ON UPDATE CASCADE;
ALTER TABLE payment
  ADD CONSTRAINT fk_payment_staff FOREIGN KEY (staff_id)
    REFERENCES staff(staff_id) ON UPDATE CASCADE;

```

Depends On 3

customer
rental
staff

Used By 5

payment_date
sales_by_film_category
sales_by_store
rewards_report
get_customer_balance








rental

Description

Properties

Name	Value
Engine	InnoDB
Auto Increment	16050
Average Row Length	99
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	rental_id	INT		11		True	True		N/S	False	False	False	
	rental_date	DATETIME			7	True	False		N/S	False	False	False	
 	inventory_id	MEDIUMINT		8		True	False		N/S	True	False	False	
 	customer_id	SMALLINT		5		True	False		N/S	True	False	False	
	return_date	DATETIME			7	False	False	NULL	N/S	False	False	False	
	staff_id	TINYINT		3		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_customer_id	customer_id	False	BTREE	
	idx_fk_inventory_id	inventory_id	False	BTREE	

	idx_fk_staff_id	staff_id	False	BTREE	
🔑	PRIMARY	rental_id	True	BTREE	
	rental_date	rental_date, inventory_id, customer_id	True	BTREE	

Triggers

Name	Type	Event	Security	Definer
rental_date	BEFORE	INSERT	Definer	root@localhost

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_rental_customer	customer_id	RESTRICT	CASCADE
fk_rental_inventory	inventory_id	RESTRICT	CASCADE
fk_rental_staff	staff_id	RESTRICT	CASCADE

SQL Script

```

CREATE TABLE rental (
  rental_id INT(11) NOT NULL AUTO_INCREMENT,
  rental_date DATETIME NOT NULL,
  inventory_id MEDIUMINT(8) UNSIGNED NOT NULL,
  customer_id SMALLINT(5) UNSIGNED NOT NULL,
  return_date DATETIME DEFAULT NULL,
  staff_id TINYINT(3) UNSIGNED NOT NULL,
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (rental_id)
)
ENGINE = INNODB,
CHARACTER SET utf8,
COLLATE utf8_general_ci,
ROW_FORMAT = Compact;
ALTER TABLE rental
  ADD UNIQUE INDEX rental_date(rental_date, inventory_id, customer_id);
ALTER TABLE rental
  ADD CONSTRAINT fk_rental_customer FOREIGN KEY (customer_id)
    REFERENCES customer(customer_id) ON UPDATE CASCADE;
ALTER TABLE rental
  ADD CONSTRAINT fk_rental_inventory FOREIGN KEY (inventory_id)
    REFERENCES inventory(inventory_id) ON UPDATE CASCADE;
ALTER TABLE rental
  ADD CONSTRAINT fk_rental_staff FOREIGN KEY (staff_id)
    REFERENCES staff(staff_id) ON UPDATE CASCADE;

```

Depends On 3

customer
inventory
staff

Used By 7

payment
rental_date
sales_by_film_category
sales_by_store
get_customer_balance
inventory_held_by_customer
inventory_in_stock

staff




Description

Contains information on the staff members, including ID, photo, address, etc.


Properties

Name	Value
Engine	InnoDB
Auto Increment	3
Average Row Length	32768
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	12-Apr-18 10:08:55
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	staff_id	TINYINT		3		True	True		N/S	True	False	False	
	first_name	VARCHAR	45			True	False		N/S	False	False	False	
	last_name	VARCHAR	45			True	False		N/S	False	False	False	
	address_id	SMALLINT		5		True	False		N/S	True	False	False	
	picture	BLOB	0			False	False	NULL	N/S	False	False	False	
	email	VARCHAR	50			False	False	NULL	N/S	False	False	False	
	store_id	TINYINT		3		True	False		N/S	True	False	False	
	active	TINYINT		1		True	False	1	N/S	False	False	False	
	username	VARCHAR	16			True	False		N/S	False	False	False	
	password	VARCHAR	40			False	False	NULL	N/S	False	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_address_id	address_id	False	BTREE	
	idx_fk_store_id	store_id	False	BTREE	
	PRIMARY	staff_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_staff_address	address_id	RESTRICT	CASCADE
fk_staff_store	store_id	RESTRICT	CASCADE

SQL Script

```
CREATE TABLE staff (  
  staff_id TINYINT(3) UNSIGNED NOT NULL AUTO_INCREMENT,  
  first_name VARCHAR(45) NOT NULL,  
  last_name VARCHAR(45) NOT NULL,  
  address_id SMALLINT(5) UNSIGNED NOT NULL,  
  picture BLOB DEFAULT NULL,  
  email VARCHAR(50) DEFAULT NULL,  
  store_id TINYINT(3) UNSIGNED NOT NULL,  
  active TINYINT(1) NOT NULL DEFAULT 1,  
  username VARCHAR(16) NOT NULL,  
  password VARCHAR(40) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (staff_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
COMMENT = 'Contains information on the staff members, including ID, photo, address, etc.',  
ROW_FORMAT = Compact;  
ALTER TABLE staff  
  ADD CONSTRAINT fk_staff_address FOREIGN KEY (address_id)  
    REFERENCES address(address_id) ON UPDATE CASCADE;  
ALTER TABLE staff  
  ADD CONSTRAINT fk_staff_store FOREIGN KEY (store_id)  
    REFERENCES store(store_id) ON UPDATE CASCADE;
```

Depends On ²

address
store

Used By ⁵

payment
rental
store
sales_by_store
staff_list




store

Description


Properties

Name	Value
Engine	InnoDB
Auto Increment	3
Average Row Length	8192
Charset	utf8
Collation	utf8_general_ci
Row Format	Compact
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	27-Mar-18 9:04:17
Last Modified	01-Jan-01 0:00:00

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	store_id	TINYINT		3		True	True		N/S	True	False	False	
	manager_staff_id	TINYINT		3		True	False		N/S	True	False	False	
	address_id	SMALLINT		5		True	False		N/S	True	False	False	
	last_update	TIMESTAMP			7	True	False	CURRENT_TIMESTAMP	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	idx_fk_address_id	address_id	False	BTREE	
	idx_unique_manager	manager_staff_id	True	BTREE	
	PRIMARY	store_id	True	BTREE	

Foreign Keys

Name	Columns	Delete Rule	Update Rule
fk_store_address	address_id	RESTRICT	CASCADE

fk_store_staff	staff_id	RESTRICT	CASCADE
----------------	----------	----------	---------

SQL Script

```
CREATE TABLE store (  
  store_id TINYINT(3) UNSIGNED NOT NULL AUTO_INCREMENT,  
  manager_staff_id TINYINT(3) UNSIGNED NOT NULL,  
  address_id SMALLINT(5) UNSIGNED NOT NULL,  
  last_update TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  PRIMARY KEY (store_id)  
)  
ENGINE = INNODB,  
CHARACTER SET utf8,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Compact;  
ALTER TABLE store  
  ADD UNIQUE INDEX idx_unique_manager(manager_staff_id);  
ALTER TABLE store  
  ADD CONSTRAINT fk_store_address FOREIGN KEY (address_id)  
  REFERENCES address(address_id) ON UPDATE CASCADE;  
ALTER TABLE store  
  ADD CONSTRAINT fk_store_staff FOREIGN KEY (manager_staff_id)  
  REFERENCES staff(staff_id) ON UPDATE CASCADE;
```

Depends On ²

address
staff

Used By ⁴

customer
inventory
staff
sales_by_store


wp_payments

Description

Properties

Name	Value
Engine	MyISAM
Auto Increment	6
Average Row Length	52
Charset	utf8
Collation	utf8_general_ci
Row Format	Fixed
Min Rows	0
Max Rows	0
Checksum	False
Page Checksum	False
Pack Keys	False
Delay Key Write	False
Is Partitioned	False
Created	28-Dec-17 10:27:18
Last Modified	28-Dec-17 10:27:18

Columns

Key	Name	Data Type	Length	Precision	Scale	Not Null	Auto Increment	Default	Virtual	Unsigned	Zerofill	Binary	Description
	id	INT		11		True	True		N/S	False	False	False	
	created	INT		15		False	False	NULL	N/S	False	False	False	
	paid	INT		15		False	False	NULL	N/S	False	False	False	
	packet	VARCHAR	255			True	False		N/S	False	False	False	
	system	VARCHAR	255			True	False		N/S	False	False	False	
	monthes	INT		2		False	False	1	N/S	False	False	False	
	amount	DECIMAL		8	2	False	False	0.00	N/S	False	False	False	
	baner	TEXT	0			False	False	NULL	N/S	False	False	False	

Indexes

Key	Name	Columns	Unique	Type	Key Lengths
	PRIMARY	id	True	BTREE	

SQL Script

```
CREATE TABLE wp_payments (  
  id INT(11) NOT NULL AUTO_INCREMENT,  
  created INT(15) DEFAULT NULL,  
  paid INT(15) DEFAULT NULL,  
  packet VARCHAR(255) NOT NULL,  
  system VARCHAR(255) NOT NULL,  
  monthes INT(2) DEFAULT 1,  
  amount DECIMAL(8, 2) DEFAULT 0.00,  
  baner TEXT DEFAULT NULL,  
  PRIMARY KEY (id)  
)  
ENGINE = MYISAM,  
CHARACTER SET utf8,  
CHECKSUM = 0,  
COLLATE utf8_general_ci,  
ROW_FORMAT = Fixed;
```

Depends On

No items found

Used By

No items found

Views

Objects 7

Name
actor_info
customer_list
film_list
nicer_but_slower_film_list
sales_by_film_category
sales_by_store
staff_list

actor_info

Properties

Name	Value
With Check Option	NONE
Security	Invoker
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
actor_id	SMALLINT		True	True	False	False
first_name	VARCHAR	45	True	False	False	False
last_name	VARCHAR	45	True	False	False	False
film_info	TEXT	0	False	False	False	False

SQL Script

```
CREATE
SQL SECURITY INVOKER
VIEW actor_info
AS
SELECT
  `a`.`actor_id` AS `actor_id`,
  `a`.`first_name` AS `first_name`,
  `a`.`last_name` AS `last_name`,
  GROUP_CONCAT(DISTINCT CONCAT(`c`.`name`, ': '), (SELECT
    GROUP_CONCAT(`f`.`title` ORDER BY `f`.`title` ASC SEPARATOR ', ') AS `GROUP_CONCAT(f.title ORDER BY f.title SEPARATOR
', ')`
  FROM ((`sakila`.`film` `f`
    JOIN `sakila`.`film_category` `fc`
      ON ((`f`.`film_id` = `fc`.`film_id`)))
    JOIN `sakila`.`film_actor` `fa`
      ON ((`f`.`film_id` = `fa`.`film_id`)))
    WHERE ((`fc`.`category_id` = `c`.`category_id`)
      AND (`fa`.`actor_id` = `a`.`actor_id`))) ORDER BY `c`.`name` ASC SEPARATOR '; ') AS `film_info`
FROM (((`sakila`.`actor` `a`
  LEFT JOIN `sakila`.`film_actor` `fa`
    ON ((`a`.`actor_id` = `fa`.`actor_id`)))
  LEFT JOIN `sakila`.`film_category` `fc`
    ON ((`fa`.`film_id` = `fc`.`film_id`)))
  LEFT JOIN `sakila`.`category` `c`
    ON ((`fc`.`category_id` = `c`.`category_id`)))
GROUP BY `a`.`actor_id`,
  `a`.`first_name`,
  `a`.`last_name`;
```

Depends On 5

- film
- film_category
- film_actor
- actor
- category

Used By

No items found

customer_list

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
ID	SMALLINT		True	True	False	False
name	VARCHAR	91	True	False	False	False
address	VARCHAR	50	True	False	False	False
zip code	VARCHAR	10	False	False	False	False
phone	VARCHAR	20	True	False	False	False
city	VARCHAR	50	True	False	False	False
country	VARCHAR	50	True	False	False	False
notes	VARCHAR	6	True	False	False	False
SID	TINYINT		True	True	False	False

SQL Script

```
CREATE
DEFINER = 'root'@'%'
VIEW customer_list
AS
SELECT
  `cu`.`customer_id` AS `ID`,
  CONCAT(`cu`.`first_name`, ' ', `cu`.`last_name`) AS `name`,
  `a`.`address` AS `address`,
  `a`.`postal_code` AS `zip code`,
  `a`.`phone` AS `phone`,
  `sakila`.`city`.`city` AS `city`,
  `sakila`.`country`.`country` AS `country`,
  IF(`cu`.`active`, 'active', '') AS `notes`,
  `cu`.`store_id` AS `SID`
FROM (((`sakila`.`customer` `cu`
JOIN `sakila`.`address` `a`
  ON ((`cu`.`address_id` = `a`.`address_id`)))
JOIN `sakila`.`city`
  ON ((`a`.`city_id` = `sakila`.`city`.`city_id`)))
JOIN `sakila`.`country`
  ON ((`sakila`.`city`.`country_id` = `sakila`.`country`.`country_id`)));
```

Depends On 4

[address](#)
[city](#)
[country](#)
[customer](#)

Used By

No items found

film_list

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
FID	SMALLINT		False	True	False	False
title	VARCHAR	255	False	False	False	False
description	TEXT	0	False	False	False	False
category	VARCHAR	25	True	False	False	False
price	DECIMAL		False	False	False	False
length	SMALLINT		False	True	False	False
rating	ENUM		False	False	False	False
actors	TEXT	0	False	False	False	False

SQL Script

```
CREATE
DEFINER = 'root'@'%'
VIEW film_list
AS
SELECT
`sakila`.`film`.`film_id` AS `FID`,
`sakila`.`film`.`title` AS `title`,
`sakila`.`film`.`description` AS `description`,
`sakila`.`category`.`name` AS `category`,
`sakila`.`film`.`rental_rate` AS `price`,
`sakila`.`film`.`length` AS `length`,
`sakila`.`film`.`rating` AS `rating`,
GROUP_CONCAT(CONCAT(`sakila`.`actor`.`first_name`, ' ', `sakila`.`actor`.`last_name`) SEPARATOR ', ') AS `actors`
FROM (((`sakila`.`category`
LEFT JOIN `sakila`.`film_category`
ON ((`sakila`.`category`.`category_id` = `sakila`.`film_category`.`category_id`)))
LEFT JOIN `sakila`.`film`
ON ((`sakila`.`film_category`.`film_id` = `sakila`.`film`.`film_id`)))
JOIN `sakila`.`film_actor`
ON ((`sakila`.`film`.`film_id` = `sakila`.`film_actor`.`film_id`)))
JOIN `sakila`.`actor`
ON ((`sakila`.`film_actor`.`actor_id` = `sakila`.`actor`.`actor_id`)))
GROUP BY `sakila`.`film`.`film_id`;
```

Depends On 5

- category
- film_category
- film
- film_actor

actor

Used By

No items found

nicer_but_slower_film_list

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
FID	SMALLINT		False	True	False	False
title	VARCHAR	255	False	False	False	False
description	TEXT	0	False	False	False	False
category	VARCHAR	25	True	False	False	False
price	DECIMAL		False	False	False	False
length	SMALLINT		False	True	False	False
rating	ENUM		False	False	False	False
actors	TEXT	0	False	False	False	False

SQL Script

```
CREATE
DEFINER = 'root'@'%'
VIEW nicer_but_slower_film_list
AS
SELECT
`sakila`.`film`.`film_id` AS `FID`,
`sakila`.`film`.`title` AS `title`,
`sakila`.`film`.`description` AS `description`,
`sakila`.`category`.`name` AS `category`,
`sakila`.`film`.`rental_rate` AS `price`,
`sakila`.`film`.`length` AS `length`,
`sakila`.`film`.`rating` AS `rating`,
GROUP_CONCAT(CONCAT(CONCAT(UCASE(SUBSTR(`sakila`.`actor`.`first_name`, 1, 1)), LCASE(SUBSTR(`sakila`.`actor`.`first_name`, 2, LENGTH(`sakila`.`actor`.`first_name`))),
', CONCAT(UCASE(SUBSTR(`sakila`.`actor`.`last_name`, 1, 1)), LCASE(SUBSTR(`sakila`.`actor`.`last_name`, 2, LENGTH(`sakila`.`actor`.`last_name`)))))) SEPARATOR ',
') AS `actors`
FROM (((`sakila`.`category`
LEFT JOIN `sakila`.`film_category`
ON ((`sakila`.`category`.`category_id` = `sakila`.`film_category`.`category_id`))
LEFT JOIN `sakila`.`film`
ON ((`sakila`.`film_category`.`film_id` = `sakila`.`film`.`film_id`))
JOIN `sakila`.`film_actor`
ON ((`sakila`.`film`.`film_id` = `sakila`.`film_actor`.`film_id`))
JOIN `sakila`.`actor`
ON ((`sakila`.`film_actor`.`actor_id` = `sakila`.`actor`.`actor_id`))
GROUP BY `sakila`.`film`.`film_id`;
```

Depends On

- category
- film_category
- film
- film_actor
- actor

Used By

No items found

sales_by_film_category

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
category	VARCHAR	25	True	False	False	False
total_sales	DECIMAL		False	False	False	False

SQL Script

```
CREATE
DEFINER = 'root'@'%'
VIEW sales_by_film_category
AS
SELECT
  `c`.`name` AS `category`,
  SUM(`p`.`amount`) AS `total_sales`
FROM (((((`sakila`.`payment` `p`
JOIN `sakila`.`rental` `r`
  ON ((`p`.`rental_id` = `r`.`rental_id`)))
JOIN `sakila`.`inventory` `i`
  ON ((`r`.`inventory_id` = `i`.`inventory_id`)))
JOIN `sakila`.`film` `f`
  ON ((`i`.`film_id` = `f`.`film_id`)))
JOIN `sakila`.`film_category` `fc`
  ON ((`f`.`film_id` = `fc`.`film_id`)))
JOIN `sakila`.`category` `c`
  ON ((`fc`.`category_id` = `c`.`category_id`)))
GROUP BY `c`.`name`
ORDER BY SUM(`p`.`amount`) DESC;
```

Depends On 6

- category
- payment
- rental
- inventory
- film
- film_category

Used By

No items found

sales_by_store

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
store	VARCHAR	101	True	False	False	False
manager	VARCHAR	91	True	False	False	False
total_sales	DECIMAL		False	False	False	False

SQL Script

```
CREATE
DEFINER = 'root'@'%'
VIEW sales_by_store
AS
SELECT
  CONCAT(`c`.`city`, ', ', `cy`.`country`) AS `store`,
  CONCAT(`m`.`first_name`, ' ', `m`.`last_name`) AS `manager`,
  SUM(`p`.`amount`) AS `total_sales`
FROM (((((((`sakila`.`payment` `p`
JOIN `sakila`.`rental` `r`
  ON ((`p`.`rental_id` = `r`.`rental_id`)))
JOIN `sakila`.`inventory` `i`
  ON ((`r`.`inventory_id` = `i`.`inventory_id`)))
JOIN `sakila`.`store` `s`
  ON ((`i`.`store_id` = `s`.`store_id`)))
JOIN `sakila`.`address` `a`
  ON ((`s`.`address_id` = `a`.`address_id`)))
JOIN `sakila`.`city` `c`
  ON ((`a`.`city_id` = `c`.`city_id`)))
JOIN `sakila`.`country` `cy`
  ON ((`c`.`country_id` = `cy`.`country_id`)))
JOIN `sakila`.`staff` `m`
  ON ((`s`.`manager_staff_id` = `m`.`staff_id`)))
GROUP BY `s`.`store_id`
ORDER BY `cy`.`country`, `c`.`city`;
```

Depends On 8

- store
- payment
- rental
- inventory
- address
- city
- country
- staff

Used By

No items found

staff_list

Properties

Name	Value
With Check Option	NONE
Security	Definer
Definer	root@%
ANSI Quotes	False

Columns

Name	Data Type	Length	Not Null	Unsigned	Zerofill	Binary
ID	TINYINT		True	True	False	False
name	VARCHAR	91	True	False	False	False
address	VARCHAR	50	True	False	False	False
zip code	VARCHAR	10	False	False	False	False
phone	VARCHAR	20	True	False	False	False
city	VARCHAR	50	True	False	False	False
country	VARCHAR	50	True	False	False	False
SID	TINYINT		True	True	False	False

SQL Script

```
CREATE
DEFINER = 'root'@ '%'
VIEW staff_list
AS
SELECT
`s`.`staff_id` AS `ID`,
CONCAT(`s`.`first_name`, ' ', `s`.`last_name`) AS `name`,
`a`.`address` AS `address`,
`a`.`postal_code` AS `zip code`,
`a`.`phone` AS `phone`,
`sakila`.`city`.`city` AS `city`,
`sakila`.`country`.`country` AS `country`,
`s`.`store_id` AS `SID`
FROM (((`sakila`.`staff` `s`
JOIN `sakila`.`address` `a`
ON ((`s`.`address_id` = `a`.`address_id`)))
JOIN `sakila`.`city`
ON ((`a`.`city_id` = `sakila`.`city`.`city_id`)))
JOIN `sakila`.`country`
ON ((`sakila`.`city`.`country_id` = `sakila`.`country`.`country_id`)));
```

Depends On 4

address
city
country
staff

Used By

No items found

Procedures

Objects 3

Name	Description
film_in_stock	
film_not_in_stock	
rewards_report	Provides a customizable report on best customers

film_in_stock

Description

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	False
Security	Definer
Definer	root@localhost
SQL Mode	NO_ENGINE_SUBSTITUTION
Language	
Created	04-Apr-18 13:22:28
Last Modified	04-Apr-18 13:22:28

Parameters

Name	Data Type	Length	Precision	Scale
p_film_id	INT		11	0
p_store_id	INT		11	0
p_film_count	INT		11	0

SQL Script

```

DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
PROCEDURE film_in_stock(IN p_film_id INT, IN p_store_id INT, OUT p_film_count INT)
  READS SQL DATA
BEGIN
  SELECT inventory_id
  FROM inventory
  WHERE film_id = p_film_id
  AND store_id = p_store_id
  AND inventory_in_stock(inventory_id);
  SELECT FOUND_ROWS() INTO p_film_count;
END
$$
DELIMITER ;

```

Depends On 2

[inventory](#)

[inventory_in_stock](#)

Used By

No items found

film_not_in_stock

Description

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	False
Security	Definer
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Language	
Created	18-Dec-17 8:03:29
Last Modified	18-Dec-17 8:03:29

Parameters

Name	Data Type	Length	Precision	Scale
p_film_id	INT		11	0
p_store_id	INT		11	0
p_film_count	INT		11	0

SQL Script

```
DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
PROCEDURE film_not_in_stock(IN p_film_id INT, IN p_store_id INT, OUT p_film_count INT)
  READS SQL DATA
BEGIN
  SELECT inventory_id
  FROM inventory
  WHERE film_id = p_film_id
  AND store_id = p_store_id
  AND NOT inventory_in_stock(inventory_id);
  SELECT FOUND_ROWS() INTO p_film_count;
END
$$
DELIMITER ;
```

Depends On ²

[inventory](#)
[inventory_in_stock](#)

Used By

No items found

rewards_report

Description

Provides a customizable report on best customers

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	False
Security	Definer
Definer	root@localhost
SQL Mode	NO_ENGINE_SUBSTITUTION
Language	
Created	04-Apr-18 13:24:05
Last Modified	04-Apr-18 13:24:05

Parameters

Name	Data Type	Length	Precision	Scale
min_monthly_purchases	TINYINT		3	0
min_dollar_amount_purchased	DECIMAL		10	2
count_rewardees	INT		11	0

SQL Script

```

DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
PROCEDURE rewards_report(IN min_monthly_purchases TINYINT(3), IN min_dollar_amount_purchased DECIMAL(10, 2), OUT count_rewardees INT)
  READS SQL DATA
  COMMENT 'Provides a customizable report on best customers'
proc: BEGIN
  DECLARE last_month_start DATE;
  DECLARE last_month_end DATE;

  IF min_monthly_purchases = 0 THEN
    SELECT 'Minimum monthly purchases parameter must be > 0';
    LEAVE proc;
  END IF;
  IF min_dollar_amount_purchased = 0.00 THEN
    SELECT 'Minimum monthly dollar amount purchased parameter must be > $0.00';
    LEAVE proc;
  END IF;

  SET last_month_start = DATE_SUB(CURRENT_DATE(), INTERVAL 1 MONTH);
  SET last_month_start = STR_TO_DATE(CONCAT(YEAR(last_month_start), '-', MONTH(last_month_start), '-01'), '%Y-%m-%d');
  SET last_month_end = LAST_DAY(last_month_start);

  CREATE TEMPORARY TABLE tmpCustomer (customer_id SMALLINT UNSIGNED NOT NULL PRIMARY KEY);

  INSERT INTO tmpCustomer (customer_id)
  SELECT p.customer_id
  FROM payment AS p
  WHERE DATE(p.payment_date) BETWEEN last_month_start AND last_month_end
  GROUP BY customer_id
  HAVING SUM(p.amount) > min_dollar_amount_purchased
  AND COUNT(customer_id) > min_monthly_purchases;

```

```
SELECT COUNT(*) FROM tmpCustomer INTO count_rewardees;

SELECT c.*
FROM tmpCustomer AS t
INNER JOIN customer AS c ON t.customer_id = c.customer_id;

DROP TABLE tmpCustomer;
END
$$
DELIMITER ;
```

Depends On 2

payment

customer

Used By

No items found

Functions

Objects 3

Name	Description
get_customer_balance	
inventory_held_by_customer	
inventory_in_stock	

fx get_customer_balance

Description

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	True
Security	Definer
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Language	
Created	18-Dec-17 8:03:29
Last Modified	18-Dec-17 8:03:29

Parameters

Name	Data Type	Length	Precision	Scale
(Result)	DECIMAL		5	2
p_customer_id	INT		11	0
p_effective_date	DATETIME		0	7

SQL Script

```

DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
FUNCTION get_customer_balance(p_customer_id INT, p_effective_date DATETIME)
  RETURNS DECIMAL(5, 2)
  DETERMINISTIC
  READS SQL DATA
  BEGIN

  DECLARE v_rentfees DECIMAL(5,2);
  DECLARE v_overfees INTEGER;
  DECLARE v_payments DECIMAL(5,2);
  SELECT IFNULL(SUM(film.rental_rate),0) INTO v_rentfees
  FROM film, inventory, rental
  WHERE film.film_id = inventory.film_id
  AND inventory.inventory_id = rental.inventory_id
  AND rental.rental_date <= p_effective_date
  AND rental.customer_id = p_customer_id;
  SELECT IFNULL(SUM(IF((TO_DAYS(rental.return_date) - TO_DAYS(rental.rental_date)) > film.rental_duration,
  ((TO_DAYS(rental.return_date) - TO_DAYS(rental.rental_date)) - film.rental_duration),0)),0) INTO v_overfees
  FROM rental, inventory, film
  WHERE film.film_id = inventory.film_id
  AND inventory.inventory_id = rental.inventory_id
  AND rental.rental_date <= p_effective_date
  AND rental.customer_id = p_customer_id;
  SELECT IFNULL(SUM(payment.amount),0) INTO v_payments
  FROM payment
  WHERE payment.payment_date <= p_effective_date
  AND payment.customer_id = p_customer_id;
  RETURN v_rentfees + v_overfees - v_payments;
END
$$
DELIMITER ;

```

Depends On ⁴

- film
- inventory
- rental
- payment

Used By

No items found

fx inventory_held_by_customer

Description

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	False
Security	Definer
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Language	
Created	18-Dec-17 8:03:29
Last Modified	18-Dec-17 8:03:29

Parameters

Name	Data Type	Length	Precision	Scale
(Result)	INT		11	0
p_inventory_id	INT		11	0

SQL Script

```
DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
FUNCTION inventory_held_by_customer(p_inventory_id INT)
RETURNS INT(11)
READS SQL DATA
BEGIN
  DECLARE v_customer_id INT;
  DECLARE EXIT HANDLER FOR NOT FOUND RETURN NULL;
  SELECT customer_id INTO v_customer_id
  FROM rental
  WHERE return_date IS NULL
  AND inventory_id = p_inventory_id;
  RETURN v_customer_id;
END
$$
DELIMITER ;
```

Depends On ¹

[rental](#)

Used By

No items found

fx inventory_in_stock

Description

Properties

Name	Value
SQL Access	READS SQL DATA
Deterministic	False
Security	Definer
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Language	
Created	18-Dec-17 8:03:29
Last Modified	18-Dec-17 8:03:29

Parameters

Name	Data Type	Length	Precision	Scale
(Result)	TINYINT		1	0
p_inventory_id	INT		11	0

SQL Script

```

DELIMITER $$
CREATE DEFINER = 'root'@'localhost'
FUNCTION inventory_in_stock(p_inventory_id INT)
RETURNS TINYINT(1)
READS SQL DATA
BEGIN
    DECLARE v_rentals INT;
    DECLARE v_out INT;

    SELECT COUNT(*) INTO v_rentals
    FROM rental
    WHERE inventory_id = p_inventory_id;
    IF v_rentals = 0 THEN
        RETURN TRUE;
    END IF;
    SELECT COUNT(rental_id) INTO v_out
    FROM inventory LEFT JOIN rental USING(inventory_id)
    WHERE inventory.inventory_id = p_inventory_id
    AND rental.return_date IS NULL;
    IF v_out > 0 THEN
        RETURN FALSE;
    ELSE
        RETURN TRUE;
    END IF;
END
$$
DELIMITER ;

```

Depends On ²

rental
inventory

Used By ²

film_in_stock
film_not_in_stock

Triggers

Objects 6

Name
customer_create_date
del_film
ins_film
payment_date
rental_date
upd_film

customer_create_date

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	INSERT
Timing	BEFORE
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER customer_create_date
BEFORE INSERT
ON customer
FOR EACH ROW
SET NEW.create_date = NOW()
$$
DELIMITER ;
```

Depends On

[customer](#)

Used By

No items found

del_film

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	DELETE
Timing	AFTER
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER del_film
AFTER DELETE
ON film
FOR EACH ROW
BEGIN
    DELETE FROM film_text WHERE film_id = old.film_id;
END
$$
DELIMITER ;
```

Depends On ²

[film](#)
[film_text](#)

Used By

No items found

ins_film

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	INSERT
Timing	AFTER
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER ins_film
AFTER INSERT
ON film
FOR EACH ROW
BEGIN
    INSERT INTO film_text (film_id, title, description)
        VALUES (new.film_id, new.title, new.description);
END
$$
DELIMITER ;
```

Depends On 2

- film
- film_text

Used By

No items found

payment_date

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	INSERT
Timing	BEFORE
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER payment_date
BEFORE INSERT
ON payment
FOR EACH ROW
SET NEW.payment_date = NOW()
$$
DELIMITER ;
```

Depends On

[payment](#)

Used By

No items found

rental_date

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	INSERT
Timing	BEFORE
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER rental_date
BEFORE INSERT
ON rental
FOR EACH ROW
SET NEW.rental_date = NOW()
$$
DELIMITER ;
```

Depends On

[rental](#)

Used By

No items found

upd_film

Properties

Name	Value
Definer	root@localhost
SQL Mode	STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_AUTO_CREATE_USER,NO_ENGINE_SUBSTITUTION
Event	UPDATE
Timing	AFTER
Created	01-Jan-01 0:00:00

SQL Script

```
DELIMITER $$
CREATE
DEFINER = 'root'@'localhost'
TRIGGER upd_film
AFTER UPDATE
ON film
FOR EACH ROW
BEGIN
    IF (old.title != new.title) OR (old.description != new.description) OR (old.film_id != new.film_id)
    THEN
        UPDATE film_text
        SET title=new.title,
            description=new.description,
            film_id=new.film_id
        WHERE film_id=old.film_id;
    END IF;
END
$$
DELIMITER ;
```

Depends On 2

film
film_text

Used By

No items found