

Rockbuster

Data Dictionary

Version: 03/27/2022

Table of Contents

1.Entities	4
2. Sales.....	5
2.1 Tables	5
2.1.1 Table: rental.....	5
2.1.2 Table: payment.....	5
3.Products	6
3.1 Tables	6
3.1.1 Table: film	6
3.1.2 Table: film_actor.....	7
3.1.3 Table: film_category	7
3.1.4 Table: actor	7
3.1.5 Table: category	8
3.1.6 Table: language.....	8
4.Inventory.....	9
4.1 Tables	9
4.1.1 Table: inventory.....	9
5.Customer.....	9
5.1 Tables	9
5.1.1 Table: customer	9
6.Customer.....	10
6.1 Tables	10
6.1.1 Table: store	10
6.1.2 Table: staff	10
7. Geographical Information	11
7.1Tables	11
7.1.1 Table: address.....	11
7.1.2 Table:city	12
7.1.3 Table: country.....	12

Legend



Primary Key



Unique Key

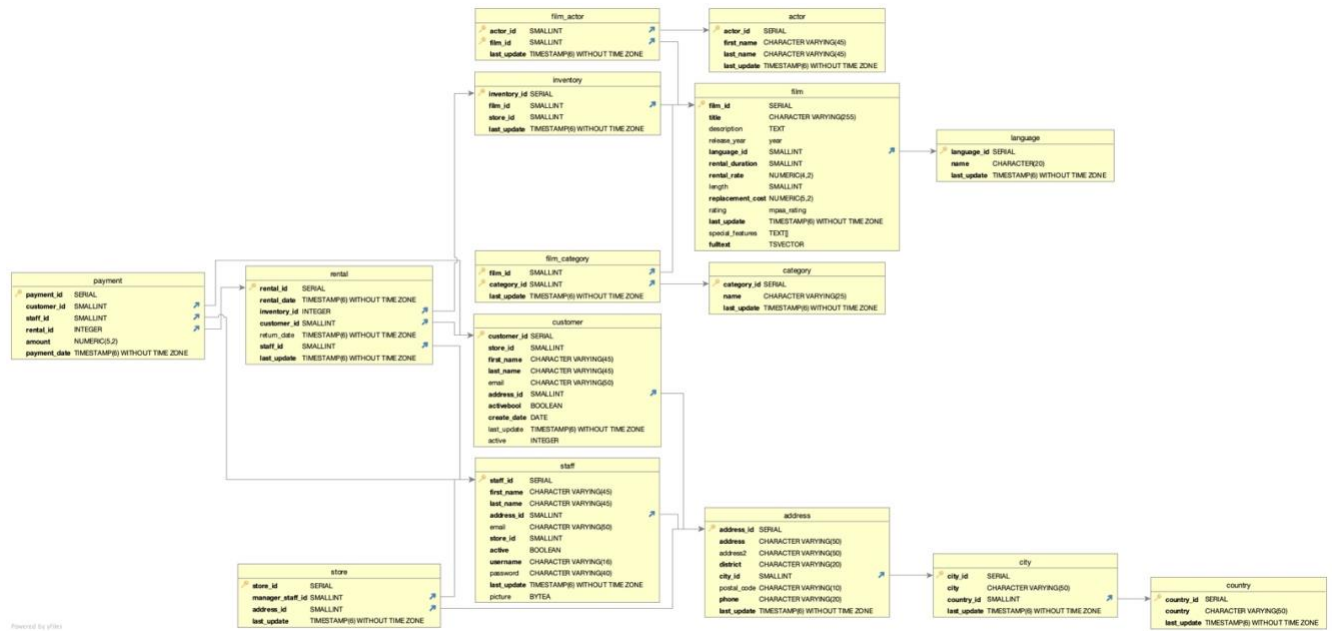


Foreign Key relation



Primary Key relation


1.Entities






2. Sales

2.1 Tables


2.1.1 Table: rental

	Column Name	Data Type	Description
	rental_id	serial	A system-generated surrogate key is used to identify each rental record.
	rental_date	timestamp	The date when customer rented the item.
	inventory_id	int	Indicate the id of the item which was rented.
	customer_id	int	Indicate the id of the customer who rented the item.
	return_date	timestamp	The date when customer returned the item.
	staff_id	int	Indicate the id of the staff who processed the transaction.
	last_update	timestamp	The date and time when the record was updated.


Links to

	Table	Join	Title/Name/Description
	inventory	rental.inventory_id=inventory.inventory_id	Foreign key constraint referencing inventory.inventory_id
	customer	rental.customer_id=customer.customer_id	Foreign key constraint referencing customer.customer_id
	staff	rental.staff_id=staff.staff_id	Foreign key constraint referencing staff.staff_id


Linked from

	Table	Join	Title/Name/Description
	payment	rental.rental_id=payment.rental_id	Foreign key constraint referencing rental.rental_id


Unique Keys



	Columns	Name / Description
	rental_id	A system-generated surrogate key is used to identify each rental record.

2.1.2 Table: payment


	Column Name	Data Type	Description
	payment_id	serial	A system-generated surrogate key is used to identify each payment record.
	customer_id	smallint	Indicate the id of the customer who rented the item.
	staff_id	smallint	Indicate the id of the staff who processed the transaction.
	rental_id	int	Indicate the id of the rental.
	amount	number	Indicate the amount of the transaction.
	payment_date	timestamp	The date when the payment processed.

Links to

	Table	Join	Title/Name/Description
	rental	payment.rental_id=rental.rental_id	Foreign key constraint referencing rental.rental_id

	customer	payment.customer_id=customer.customer_id	Foreign key constraint referencing customer.customer_id
	staff	payment.staff_id=staff.staff_id	Foreign key constraint referencing staff.staff_id


Unique Keys

Columns		Name / Description
	payment_id	A system-generated surrogate key is used to identify each payment record.


3.Products

3.1 Tables

3.1.1 Table: film

	Column Name	Data Type	Description
	film_id	serial	A system-generated surrogate key is used to identify each film record.
	title	character varying	The title of the film.
	description	text	A brief of the film.
	release_year	year	The year when the film was released.
	language_id	smallint	Indicate the id of language which the film was used.
	rental_duration	smallint	The average days of the film was rented.
	rental_rate	numeric	The rate of the film was rental.
	length	smallint	Indicate the full duration of the film.
	replacement_cost	numeric	Indicate how much the cost if the film has to be replaced.
	rating	mpaa_rating	Indicate the customers rating for the film.
	last_update	timestamp	The date and time when the record was latest updated.
	special_features	text	The picture of the staff.
	fulltext	tsvector	The words of full text search for the film.


Links to

	Table	Join	Title/Name/Description
	language	film.language_id=language.language_id	Foreign key constraint referencing language.language_id



Linked from

	Table	Join	Title/Name/Description
→	inventory	film.inventory_id= inventory. inventory_id	Foreign key constraint referencing inventory. inventory_id
→	film_actor	film.film_id=film_actor.film_id	Foreign key constraint referencing film_actor.film_id
→	film_category	film.film_id=film_category.film_id	Foreign key constraint referencing film_category.film_id



Unique Keys

Columns		Name / Description
	film_id	A system-generated surrogate key is used to identify each film record.



3.1.2 Table: film_actor

Column Name		Data Type	Description
	actor_id	smallint	Indicate the id of the actor of the film in this record. One of the candidate keys of the record.
	film_id	smallint	Indicate the id of the film. One of the candidate keys of the record.
	last_update	timestamp	The date and time when the record was updated.



Links to

Table	Join	Title/Name/Description
 film	film_actor.film_id = film.film_id	Foreign key constraint referencing film.film_id
 actor	film_actor.film_id= actor.film_id	Foreign key constraint referencing actor.film_id



Unique Keys

Columns		Name / Description
	film_id	Indicate the id of the film. One of the candidate keys of the record.
	actor_id	Indicate the id of the actor of the film in this record. One of the candidate keys of the record.



3.1.3 Table: film_category

Column Name		Data Type	Description
	film_id	smallint	Indicate the id of the film. One of the candidate keys of the record.
	category_id	smallint	Indicate the id of the film category. One of the candidate keys of the record.
	last_update	timestamp	The date and time when the record was updated.


Links to

Table	Join	Title/Name/Description
 film	film_category.film_id =film.film_id	Foreign key constraint referencing film.film_id
 category	film_category.category_id = category.category_id	Foreign key constraint referencing film_category.category_id

Unique Keys

Columns		Name / Description
	film_id	Indicate the id of the film. One of the candidate keys of the record.
	category_id	Indicate the id of the film category. One of the candidate keys of the record.


3.1.4 Table: actor

Column Name		Data Type	Description
	actor_id	smallint	A system-generated surrogate key is used to identify each actor record.
	first_name	character varying	First name of the actor.
	last_name	character varying	Last name of the actor.
	last_update	timestamp	The date and time when the record was updated.


Linked from

Table		Join	Title/Name/Description
→	film_actor	actor.actor_id= film_actor. actor_id	Foreign key constraint referencing film_actor. actor_id

Unique Keys

Columns		Name / Description
	actor_id	A system-generated surrogate key is used to identify each actor record.


3.1.5 Table: category

Column Name		Data Type	Description
	category_id	serial	A system-generated surrogate key is used to identify each category record.
	name	character varying	The name of the category.
	last_update	timestamp	The date and time when the record was updated.


Linked from

Table		Join	Title/Name/Description
→	film_category	category.category_id= film_category. category_id	Foreign key constraint referencing category.category_id

Unique Keys

Columns		Name / Description
	category_id	A system-generated surrogate key is used to identify each category record.


3.1.6 Table: language

Column Name		Data Type	Description
	language_id	serial	A system-generated surrogate key is used to identify each language record.
	name	character varying	The name of the language.
	last_update	timestamp	The date and time when the record was updated.

Linked from

Table		Join	Title/Name/Description
→	film	language. language_id= film.language_id	Foreign key constraint referencing language. language_id


Unique Keys

Columns		Name / Description
	language_id	A system-generated surrogate key is used to identify each language record.

4.Inventory

4.1 Tables


4.1.1 Table: inventory

	Column Name	Data Type	Description
	inventory_id	serial	A system-generated surrogate key is used to identify each inventory record.
	film_id	smallint	Indicate the id of the film .
	store_id	smallint	Indicate the id of the store.
	last_update	timestamp	The date and time when the record was updated.


Links to

	Table	Join	Title/Name/Description
	film	inventory.film_id= film.film_id	Foreign key constraint referencing film.film_id

Linked from

	Table	Join	Title/Name/Description
	rental	inventory.inventory_id= rental.inventory_id	Foreign key constraint referencing inventory.inventory_id


Unique Keys

	Columns	Name / Description
	inventory_id	A system-generated surrogate key is used to identify each inventory record.

5.Customer

5.1 Tables

5.1.1 Table: customer

	Column Name	Data Type	Description
	customer_id	serial	A system-generated surrogate key is used to identify each customer record.
	store_id	smallint	Indicate the id of the store.
	first_name	character varying	First name of the customer.
	last_name	character varying	Last name of the customer.
	email	character varying	Email address of the customer
	address_id	smallint	Indicate the id of contact address of the customer.
	activebool	boolean	Boolean value is indicated if the customer is active or not.
	create_date	date	The date when the record was created.
	last_update	timestamp	The date and time when the record was latest updated.
	active	int	Indicates if the record is active or not.


Links to

	Table	Join	Title/Name/Description
	address	customer.address_id= address.address_id	Foreign key constraint referencing address.address_id

Linked from

	Table	Join	Title/Name/Description
→	rental	address.customer_id = rental. customer_id	Foreign key constraint referencing address.customer_id
→	payment	address.customer_id=payment.customer_id	Foreign key constraint referencing address.customer_id


Unique Keys

	Columns	Name / Description
	customer_id	A system-generated surrogate key is used to identify each customer record.



6.Customer

6.1 Tables


6.1.1 Table: store

	Column Name	Data Type	Description
	store_id	serial	A system-generated surrogate key is used to identify each store record.
	manager_staff_id	smallint	Indicate the id of the staff who supervises the store.
	address_id	smallint	Indicate the id of the address which the store locates.
	last_update	timestamp	The date and time when the record was updated.


Links to

	Table	Join	Title/Name/Description
	address	store.address_id= address.address_id	Foreign key constraint referencing address.address_id
	staff	store.staff_id=staff.staff_id	Foreign key constraint referencing staff.staff_id

Unique Keys

	Columns	Name / Description
	store_id	A system-generated surrogate key is used to identify each store record.

6.1.2 Table: staff

	Column Name	Data Type	Description
	staff_id	serial	A system-generated surrogate key is used to identify each staff record.
	first_name	character varying	First name of the staff.

	last_name	character varying	Last name of the staff.
	address_id	smallint	Indicate the id of contact address of the staff.
	email	character varying	Email address of the staff
	store_id	smallint	Indicate the id of the store where the staff works at.
	active	boolean	Indicates if the record is active or not.
	username	character varying	The username the staff used to login the work computer system.
	password	boolean	The password the staff used to login the work computer system.
	last_update	timestamp	The date and time when the record was latest updated.
	picture	bytea	The picture of the staff.


Links to

	Table	Join	Title/Name/Description
	address	staff.address_id= address.address_id	Foreign key constraint referencing address.address_id

Linked from

	Table	Join	Title/Name/Description
→	rental	staff.staff_id = rental.staff_id	Foreign key constraint referencing staff.staff_id
→	payment	staff.staff_id=payment.staff_id	Foreign key constraint referencing staff.staff_id
→	store	staff.staff_id=store.staff_id	Foreign key constraint referencing staff.staff_id


Unique Keys

	Columns	Name / Description
	staff_id	A system-generated surrogate key is used to identify each staff record.


7. Geographical Information

7.1 Tables

7.1.1 Table: address

	Column Name	Data Type	Description
	address_id	serial	A system-generated surrogate key is used to identify each address record.
	address	character varying	The detailed address.
	address2	character varying	The detailed address when the address column can't accommodate.
	district	character varying	District of the address.
	city_id	smallint	Indicate the id of the city.
	postal_code	character varying	Postal code of the address.
	phone	character varying	The first 3 numbers of the city.
	last_update	timestamp	The date and time when the record was latest updated.


Links to

	Table	Join	Title/Name/Description
	city	address.city_id=ctiy.ctiy_id	Foreign key constraint referencingctiy.ctiy_id


Linked from

	Table	Join	Title/Name/Description
→	customer	address.address_id = customer.address_id	Foreign key constraint referencing address.address_id
→	staff	address.address_id= staff.address_id	Foreign key constraint referencing address.address_id
→	store	address.address_id=store.address_id	Foreign key constraint referencing address.address_id

Unique Keys

	Columns	Name / Description
	address_id	A system-generated surrogate key is used to identify each address record.

7.1.2 Table:city

	Column Name	Data Type	Description
	city_id	serial	A system-generated surrogate key is used to identify each city record.
	city	character varying	The name of the city.
	country_id	Smallint	Indicate the id of the country where the city belongs to.
	last_update	timestamp	The date and time when the record was updated.


Links to

	Table	Join	Title/Name/Description
	country	city.country_id=country.country_id	Foreign key constraint referencingctiy.country_id


Linked from

	Table	Join	Title/Name/Description
→	address	city.city_id = address.city_id	Foreign key constraint referencing city.city_id

Unique Keys

	Columns	Name / Description
	city_id	A system-generated surrogate key is used to identify each city record.


7.1.3 Table: country

	Column Name	Data Type	Description
	country_id	serial	A system-generated surrogate key is used to identify each country record.
	country	character varying	The name of the country.
	last_update	timestamp	The date and time when the record was updated.

Linked from

Table		Join	Title/Name/Description
→	city	country.country_id = city.country_id	Foreign key constraint referencing city.country_id

Unique Keys

Columns		Name / Description
	country_id	A system-generated surrogate key is used to identify each country record.