

**ROCKBUSTER**

**Data Dictionary**

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# 1. Entity Relationship Diagram (ERD)



## 2. Fact tables

### 2.1 film\_actor

#### Columns

Columns	Data Type	Description
actor_id	smallint	Unique serial number of the actor
film_id	smallint	Unique serial number of the film
last_update	timestamp without time zone	When the table was last updated

#### Links from

Table	Join
film	film_actor.film_id = film.film_id
actor	film_actor.actor_id = actor.actor_id

#### Unique keys

Columns	Name / Description
actor_id	Foreign key
film_id	Foreign key

### 2.2 film\_category

#### Columns

Columns	Data Type	Description
category_id	smallint	Unique serial number of the category
film_id	smallint	Unique serial number of the film
last_update	timestamp without time zone	When the table was last updated

Links from

Table	Join
film	film_category.film_id = film.film_id
category	film_category.category_id = category.category_id

Unique keys

Columns	Name / Description
category_id	Foreign key
film_id	Foreign key

## 2.3 customer

Columns

Columns	Data Type	Description
active	integer	Is the customer active or not (1,0)
activebool	boolean	Is the customer active or not (True, False)
address_id	smallint	Unique serial number of the customer address
create_date	date	The date the account was created
customer_id	integer	Unique serial number of the customer
email	character varying	Email of the customer
first_name	character varying	Name of the customer
last_name	character varying	Surname of the customer
last_update	timestamp without time zone	When the table was last updated
store_id	smallint	Unique serial number of the store

Links to

Table	Join
address	customer.address_id = address.address_id
store	customer.store_id = store.store_id

Links from

Table	Join
payment	payment.customer_id = customer.customer_id
rental	rental.customer_id = customer.customer_id

Unique keys

Columns	Name / Description
customer_id	Primary key
address_id	Foreign key
store_id	Foreign key

## 2.4 inventory

Columns

Columns	Data Type	Description
film_id	smallint	Unique serial number of the movie
inventory_id	integer	Unique serial number of the inventory
last_update	timestamp without time zone	When the table was last updated
store_id	smallint	Unique serial number of the store

Links to

Table	Join
store	inventory.store_id = store.store_id

Links from

Table	Join
film	film.inventory_id = inventory.inventory_id

Unique keys

Columns	Name / Description
inventory_id	Primary key
film_id	Foreign key
store_id	Foreign key

## 2.5 rental

Columns

Columns	Data Type	Description
customer_id	smallint	Unique serial number of the customer
inventory_id	integer	Unique serial number of the inventory
last_update	timestamp without time zone	When the table was last updated
rental_date	timestamp without time zone	When the film was rented
rental_id	integer	Unique rental serial number
return_date	timestamp without time zone	When the film was returned



Links to

Table	Join
staff	rental.staff_id = staff.staff_id
inventory	rental.inventory_id = inventory.inventory_id
customer	rental.customer_id = customer.customer_id

Links from

Table	Join
payment	payment.rental_id = rental.rental_id

Unique keys

Columns	Name / Description
rental_id	Primary key
inventory_id	Foreign key
customer_id	Foreign key
staff.id	Foreign key

## 2.6 payment

Columns

Columns	Data Type	Description
amount	numeric	The payment amount
customer_id	smallint	Unique serial number of the customer
payment_date	timestamp without time zone	The date of the transaction
payment_id	integer	Unique serial number of the payment
rental_id	integer	Unique serial number of the rental
staff_id	smallint	Unique serial number of the employee

Links to

Table	Join
rental	payment.rental_id = rental.rental_id
customer	payment.customer_id = customer.customer_id
staff	payment.staff_id = staff.staff_id

Unique keys

Columns	Name / Description
payment_id	Primary key
customer_id	Foreign key
staff_id	Foreign key
rental_id	Foreign key

## 2.7 staff

Columns

Columns	Data Type	Description
active	boolean	Is employee active or not (True, False)
address_id	smallint	Unique serial number of the employee address
email	character varying	Email of the employee
first_name	character varying	Name of the employee
last_name	character varying	Surname of the employee
last_update	timestamp without time zone	When the table was last updated
password	character varying	Password of the employee
picture	bytea	Picture of the employee
staff_id	integer	Unique serial number of the employee
store_id	smallint	Unique serial number of the store
username	character varying	Username of the employee

Links to

Table	Join
address	staff.address_id = address.address_id
store	staff.store_id = store.store_id

Links from

Table	Join
payment	payment.staff_id = staff.staff_id
rental	rental.staff_id = staff.staff_id
store	store.manager_staff_id = staff.staff_id

Unique keys

Columns	Name / Description
staff_id	Primary key
address_id	Foreign key
store_id	Foreign key

### 3. Dimension tables

#### 3.1 category

Columns

Columns	Data Type	Description
category_id	integer	Unique serial number of the category
last_update	timestamp without time zone	When the table was last updated
name	character varying	Name of the film genre

Links from

Table	Join
film_category	film_category.category_id = category.category_id

Unique keys

Columns	Name / Description
category_id	Primary key

## 3.2 film

Columns

Columns	Data Type	Description
description	text	Description of the movie
film_id	integer	Unique serial number of the film
fulltext	tsvector	Film-related keywords
language_id	smallint	Unique serial number of the language
last_update	timestamp without time zone	When the table was last updated
length	smallint	The length of the movie
rating	mpaa_rating	The film rating
release_year	integer	The year the movie was released
rental_duration	smallint	How many days the rental lasted
rental_rate	numeric	The price of the rental
replacement_cost	numeric	The cost to replace the movie
special_features	text[]	Extra features like trailers or deleted scenes available
title	character varying	Name of the movie

Links to

Table	Join
language	film.language_id = language.language_id

Links from

Table	Join
film_actor	film.actor.film_id = film.film_id
film_category	film_category.film_id = film.film_id
inventory	inventory.film_id = film.film_id

Unique keys

Columns	Name / Description
film_id	Primary key
language_id	Foreign key

### 3.3 actor

Columns

Columns	Data Type	Description
actor_id	integer	Unique serial number of the actor
first_name	character varying	Name of the actor
last_name	character varying	Surname of the actor
last_update	timestamp without time zone	When the table was last updated

Links from

Table	Join
film_actor	film_actor.actor_id = actor.actor_id

## Unique keys

Columns	Name / Description
actor_id	Primary key

## 3.4 store

### Columns

Columns	Data Type	Description
address_id	smallint	Unique serial number of the store address
last_update	timestamp without time zone	When the table was last updated
manager_staff_id	smallint	Unique serial number of the employee
store_id	integer	Unique serial number of the store

### Links to

Table	Join
address	store.address_id = address.address_id
staff	store.manager_staff_id = staff.staff_id

### Links from

Table	Join
staff	staff.store_id = store.store_id
customer	customer.store_id = store.store_id
inventory	inventory.store_id = store.store_id

#### Unique keys

Columns	Name / Description
store_id	Primary key
address_id	Foreign key
manager_staff_id	Foreign key

### 3.5 language

#### Columns

Columns	Data Type	Description
language_id	integer	Unique serial number of the language
last_update	timestamp without time zone	When the table was last updated
name	character	Name of the language

#### Links from

Table	Join
film	film.language_id = language.language_id

#### Unique keys

Columns	Name / Description
language_id	Primary key

## 3.6 address

### Columns

Columns	Data Type	Description
address	character varying	Street and house number
address_id	integer	Unique serial number of the address
address2	character varying	Alternative address, empty column
city_id	smallint	Unique serial number of the city
district	character varying	The district the address is in
last_update	timestamp without time zone	When the table was last updated
phone	character varying	Phone number
postal_code	character varying	Postal code

### Links to

Table	Join
city	address.city_id = city.city_id

### Links from

Table	Join
customer	customer.address_id = address.address_id
staff	staff.address_id = address.address_id
store	store.address_id = address.address_id

### Unique keys

Columns	Name / Description
address_id	Primary key
city_id	Foreign key



### 3.7 city

#### Columns

Columns	Data Type	Description
city	character varying	City
city_id	integer	Unique serial number of the city
country_id	smallint	Unique serial number of the country
last_update	timestamp without time zone	When the table was last updated

#### Links to

Table	Join
country	city.country_id = country.country_id

#### Links from

Table	Join
address	address.city_id = city.city_id

#### Unique keys

Columns	Name / Description
city_id	Primary key
country_id	Foreign key

### 3.8 country

#### Columns

Columns	Data Type	Description
country	character varying	Country
country_id	integer	Unique serial number of the country
last_update	timestamp without time zone	When the table was last updated

Links from

Table	Join
city	city.country_id = country.country_id

Unique keys

Columns	Name / Description
country_id	Primary key