

**Data Dictionary**

Rockbuster Co.

By Elena Dries

November, 2022

Table of contents

[Entity Relational Diagram (ERD) 2](#_Toc120310001)

[Fact Table 3](#_Toc120310002)

[**Rental** 3](#_Toc120310003)

[Dimension Tables 4](#_Toc120310004)

[**Payment** 4](#_Toc120310005)

[**Store** 4](#_Toc120310006)

[**Film Actor** 5](#_Toc120310007)

[**Inventory** 5](#_Toc120310008)

[**Film Category** 5](#_Toc120310009)

[**Customer** 6](#_Toc120310010)

[**Staff** 7](#_Toc120310011)

[**Actor** 8](#_Toc120310012)

[**Film** 8](#_Toc120310013)

[**Category** 9](#_Toc120310014)

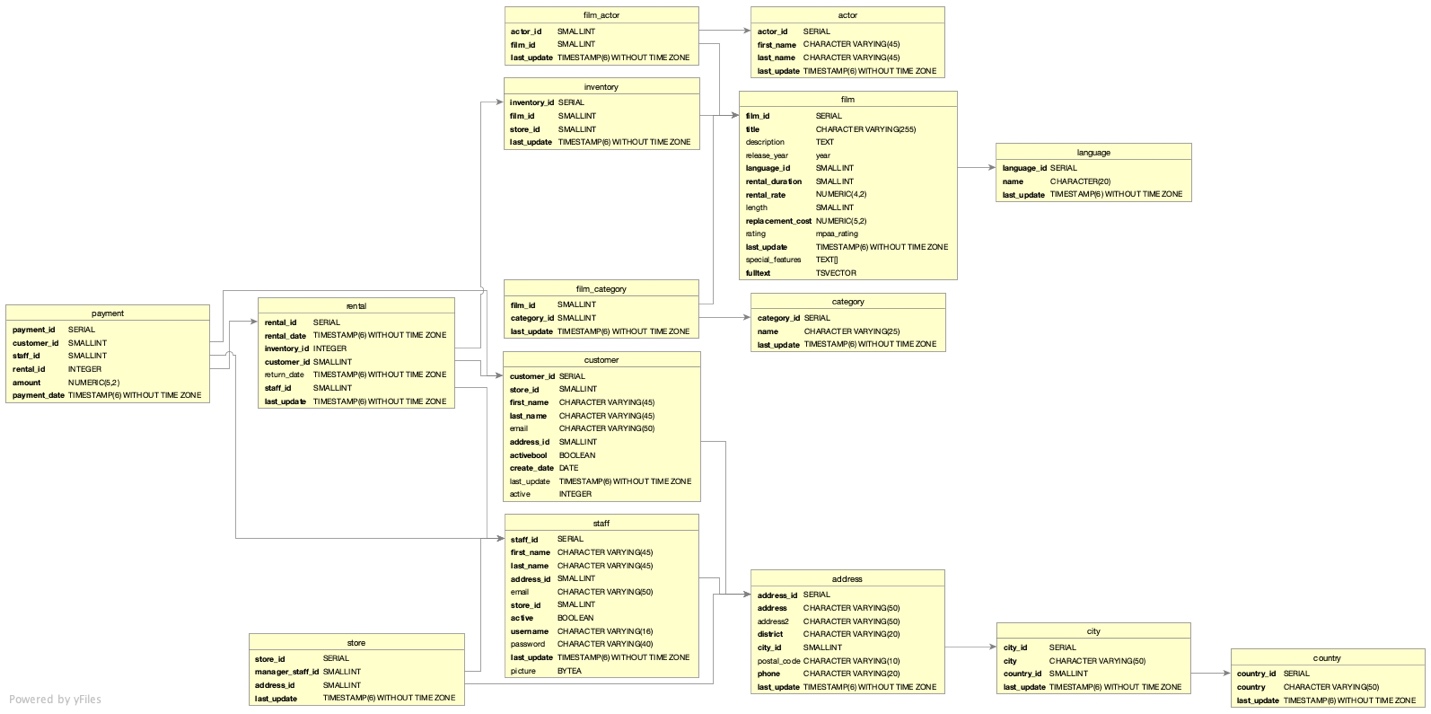
[**Address** 10](#_Toc120310015)

[**Language** 10](#_Toc120310016)

[**City** 11](#_Toc120310017)

[**Country** 11](#_Toc120310018)

# Entity Relational Diagram (ERD)



# Fact Table

Table Name:

## **Rental**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Unique/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| rental\_id | Primary | SERIAL | ID of a rental transaction | From: Payment |
| rental\_date |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when the rental took place |  |
| inventory\_id | Foreign | INTEGER | ID of an item in the inventory | To: Inventory |
| customer\_id | Foreign | SMALLINT | ID of a customer | To: Customer |
| return\_date |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when return took place |  |
| staff\_id | Foreign | SMALLINT | ID of a staff member | To: Staff |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update took place |  |

# Dimension Tables

Table Name:

## **Payment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| payment\_id | Primary | SERIAL | ID of a payment transaction |  |
| customer\_id | Foreign | SMALLINT | ID of a customer | To: Customer |
| staff\_id | Foreign | SMALLINT | ID of a staff member | To: Staff |
| rental\_id | Foreign | INTEGER | ID of a rental transaction | To: Rental |
| amount |  | NUMERIC(5,2) | The total amount of the transaction |  |
| payment\_date |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when the payment took place |  |

Table Name:

## **Store**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| store\_id | Primary | SERIAL | ID of a store |  |
| manager\_staff\_id | Foreign | SMALLINT | ID of the responsible manager | To: Staff |
| address\_id | Foreign | SMALLINT | ID of an address | To: Address |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Store” table took place |  |

Table Name:

## **Film Actor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| actor\_id | Foreign | SMALLINT | ID of an actor | To: Actor |
| film\_id | Foreign | SMALLINT | ID of a film | To: Film |
| last-update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Film Actor” table took place |  |

Table Name:

## **Inventory**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| inventory\_id | Primary | SERIAL | ID of an item in the inventory | From: Rental |
| film\_id | Foreign | SMALLINT | ID of a film | To: Film |
| store\_id |  | SMALLINT | ID od a store |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Inventory” table took place |  |

Table Name:

## **Film Category**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| film\_id | Foreign | SMALLINT | ID of a film | To: Film |
| category\_id | Foreign | SMALLINT | ID of a category | To: Category |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Film Category” table took place |  |

Table Name:

## **Customer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| customer\_id | Primary | SERIAL | ID of a customer | From: Rental, Payment |
| store\_id |  | SMALLINT | ID of a store |  |
| first\_name |  | CHARACTER VARYING (45) | Customer first name |  |
| last\_name |  | CHARACTER VARYING (45) | Customer last name |  |
| email |  | CHARACTER VARYING (50) | Customer e-mail address |  |
| address\_id | Foreign | SMALLINT | ID of the customer address | To: Address |
| activebool |  | BOOLEAN | Customer status: active or not |  |
| create\_date |  | DATE | Date of the entry creation |  |
| last-update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Customer” table took place |  |
| active |  | INTEGER | Customer status |  |

Table Name:

## **Staff**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| Staff\_id | Primary | SERIAL | Staff member ID | From: Rental, Payment, Store |
| First-Name |  | CHARACTER VARYING (45) | Staff member first name |  |
| Last\_name |  | CHARACTER VARYING (45) | Staff member last name |  |
| Address\_id | Foreign | SMALLINT | Address ID | To: Address |
| Email |  | CHARACTER VARYING (50) | Staff member e-mail address |  |
| Store\_id |  | SMALLINT | ID of a store |  |
| Active |  | BOOLEAN | Staff member status: active or not |  |
| Username |  | CHARACTER VARYING (16) | Staff member user name |  |
| Password |  | CHARACTER VARYING (40) | Password of a staff member |  |
| Last-update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Staff” table took place |  |
| picture |  | BYTEA | Picture of a staff member |  |

Table Name:

## **Actor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| actor\_id | Primary | SERIAL | ID of an actor | From: Film Actor |
| first\_name |  | CHARACTER VARYING (45) | Actor first name |  |
| last\_name |  | CHARACTER VARYING (45) | Actor last name |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Actor” table took place |  |

Table Name:

## **Film**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| film\_id | Primary | SERIAL | ID of a film | From: Film Actor, Inventory, Film Category |
| title |  | CHARACTER VERYING(255) | Film title |  |
| description |  | TEXT | Film description |  |
| release\_year |  | year | The year when the film was released |  |
| language\_id | Foreign | SMALLINT | ID of the film language | To: Language |
| rental\_duration |  | SMALLINT | Number of days the film is rented for |  |
| rental\_rate |  | NUMERIC(4,2) | Rate at which the film is rented |  |
| length |  | SMALLINT | Length of the film in minutes |  |
| replacement\_cost |  | NUMERIC(5,2) | The cost of the film replacement |  |
| rating |  | mpaa\_rating | Motion Picture Association rating |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Film” table took place |  |
| Special\_features |  | TEXT[] | List of special features |  |
| fulltext |  | TSVECTOR | Key words |  |

Table Name:

## **Category**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| category\_id | Primary | SERIAL | ID of a category | From: Film Category |
| name |  | CHARACTER VERYING(25) | Category name |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Category” table took place |  |

Table Name:

## **Address**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| address\_id | Primary | SERIAL | ID of an address | From: Customer, Staff, Store |
| address |  | CHARACTER VERYING(50) | Postal address |  |
| address2 |  | CHARACTER VERYING(50) | Another postal address |  |
| district |  | CHARACTER VERYING(20) | Name of a district |  |
| city\_id | Foreign | SMALLINT | ID of a city | To: City |
| postal\_code |  | CHARACTER VERYING(10) | Postal code |  |
| phone |  | CHARACTER VERYING(20) | Phone number |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Address” table took place |  |

Table Name:

## **Language**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| language\_id | Primary | SERIAL | ID of a language | From: Film |
| name |  | CHARACTER VERYING(20) | Name of a language |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Language” table took place |  |

Table Name:

## **City**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| city\_id | Primary | SERIAL | ID of a city | From: Address |
| city |  | CHARACTER VERYING(50) | Name of a city |  |
| country\_id | Foreign | SMALLINT | ID of a country | To: Country |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “City” table took place |  |

Table Name:

## **Country**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Primary/**  **Foreign Key** | **Data Type** | **Description** | **Links To/From Table** |
| country\_id | Primary | SERIAL | ID of a country | From: City |
| country |  | CHARACTER VERYING(50) | Country name |  |
| last\_update |  | TIMESTAMP(6) WITHOUT TIME ZONE | Date when last update of the “Country” table took place |  |