



## Rockbuster Movie Rental Analysis Project Data Dictionary

---

### **Overview**

A data dictionary for Rockbuster database, outlining relationships structured through tables to aid in data management and querying in PostgreSQL.

The Rockbuster database is structured to manage and store information for a video rental business. It encompasses details about films, actors, inventory, rentals, payments, and other related aspects.

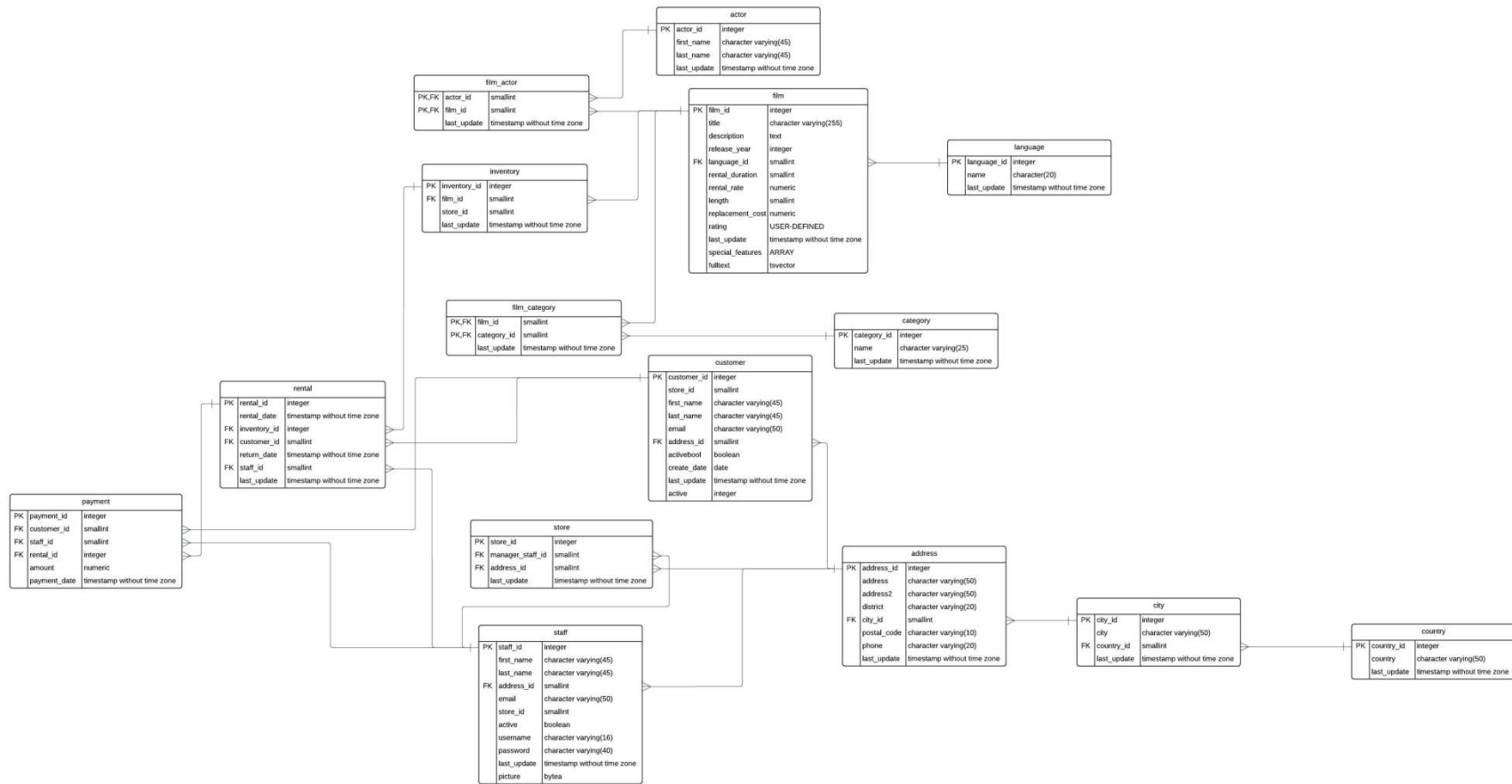
Rockbuster database has a snowflake schema. The fact table rental and payment are surrounded by dimension table such as inventory and customer, and then dimension tables are surrounded by sub dimension table. All of these together form a snowflake schema.

# TABLE OF CONTENTS

---

<b>Over view .....</b>	<b>1</b>
<b>Entity Relationship Diagram (ERD) .....</b>	<b>3</b>
<b>Fact tables.....</b>	<b>4</b>
<b>Dimension tables .....</b>	<b>5-8</b>

# ENTITY RELATIONSHIP DIAGRAM



# FACT TABLES

---

- **Rental**

Column	Data Type	Description
Rental_id	Serial	Unique identifier for each rental transaction
Rental_date	Timestamp(6)without time zone	Data of rental occurred
Inventory_id	Integer	Unique identifier for inventory
Customer_id	Smallint	Unique identifier for customer
Return_date	Timestamp(6)without time zone	Date of item be returned
Staff_id	Smallint	Unique identifier for staff
Last_update	Timestamp(6)without time zone	Date and time of record last updated

- **Payment**

Column	Data Type	Description
Payment_id	Serial	Unique identifier of a payment
Customer_id	Smallint	Unique identifier of a customer
Staff_id	Smallint	Unique identifier of a staff member
Rental_id	Integer	Unique identifier of a rental
Amount	Numeric(5,2)	Price of the rental
Payment_date	Timestamp(6)without timezone	Date of the payment

# DIMENSION TABLES

---

- **Customer**

Column	Data Type	Description
Customer_id	Serial	Unique identifier of a customer
Store_id	Smallint	Unique identifier of a store
First_name	Character Varying(45)	First name of the customer
Last_name	Character Varying(45)	Last name of the customer
Email	Character Varying(50)	Email of the customer
Address_id	Smallint	Address of the customer
Activebool	Boolyan	Active or not
Create_date	Date	Data of being created
Last_update	Timestamp(6)without timezone	Date and time of record last updated
Active	Integer	Active or not

- **Staff**

Column	Data Type	Description
Staff_id	Serial	Unique identifier of a staff
Store_id	Smallint	Unique identifier of a store
First_name	Character Varying(45)	First name of the staff
Last_name	Character Varying(45)	Last name of the staff
Email	Character Varying(50)	Email of the staff
Adress_id	Smallint	Adress of the staff
Active	Boolyan	Active or not
User_name	Character Varying(16)	User_name of the staff
Password	Character Varying(40)	Password of the staff
Last_update	Timestamp(6)without timezone	Date and time of record last updated
Picture	Bytea	Photo of the staff

- **Store**

Column	Data Type	Description
Store_id	Serial	Unique identifier of a store
Manager_staff_id	Smallint	Unique identifier of the store manager
Adress_id	Smallint	Adress of the store
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Address**

Column	Data Type	Description
Adress_id	Serial	Unique identifier of an address
Adress	Character Varying(50)	Adress details
Adress2	Character Varying(50)	Extra address details
District	Character Varying(20)	Name of the district
City_id	Smallint	Unique identifier of a city
Postal_code	Character Varying(10)	Postal code details
Phone	Character Varying(20)	Postal code details
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **City**

Column	Data Type	Description
City_id	Serial	Unique identifier of a city
City	Character Varying(50)	Name of the city
Country_id	Smallint	Unique identifier of a country
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Country**

Column	Data Type	Description
Country_id	Serial	Unique identifier of a country
Country	Character Varying(50)	Name of the country
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Film\_Category**

Column	Data Type	Description
Film_id	Smallint	Unique identifier of a film
Category_id	Smallint	Unique identifier of a category
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Category**

Column	Data Type	Description
Category_id	Serial	Unique identifier of a category
Name	Character Varying (25)	Name of the category
Last_update	Character Varying (25)	Date and time of record last updated

- **Inventory**

Column	Data Type	Description
Inventory_id	Serial	Unique identifier of an inventory
Film_id	Smallint	Unique identifier of a film
Store_id	Smallint	Unique identifier of a store
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Film**

Column	Data Type	Description
Film_id	Serial	Unique identifier of a film
Title	Character Varying(255)	Title of the movie
Description	TEXT	Description of the movie
Release_year	Year	Year that the movie came out
Language_id	Smallint	Unique identifier of the language
Rental_duration	Smallint	How long the movie has been rented
Rental_rate	Numeric(4,2)	Data of rental occurred
Length	Smallint	Duration of the movie
Replacement_cost	Numeric(5,2)	Costs to replace the rental movie
Rating	Mpaa_rating	Which age groups can watch the movie

Last_update	Timestamp(6)without timezone	Date and time of record last updated
Special_features	Text[]	Special features of the movie
Fulltext	TSVECTOR	Text of the movie

- **Language**

Column	Data Type	Description
Language_id	Serial	Unique identifier of the language
Name	Character (20)	Name of the language
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Film\_actor**

Column	Data Type	Description
Actor_id	Smallint	Unique identifier of the actor
Film_id	Smallint	Unique identifier of the film
Last_update	Timestamp(6)without timezone	Date and time of record last updated

- **Actor**

Column	Data Type	Description
Actor_id	Serial	Unique identifier of the actor
First_name	Character Varying(45)	First name of the actor
Last_name	Character Varying(45)	Last name of the actor
Last_update	Timestamp(6)without timezone	Date and time of record last updated