

Rockbuster Movie Rental Analysis

Data Dictionary



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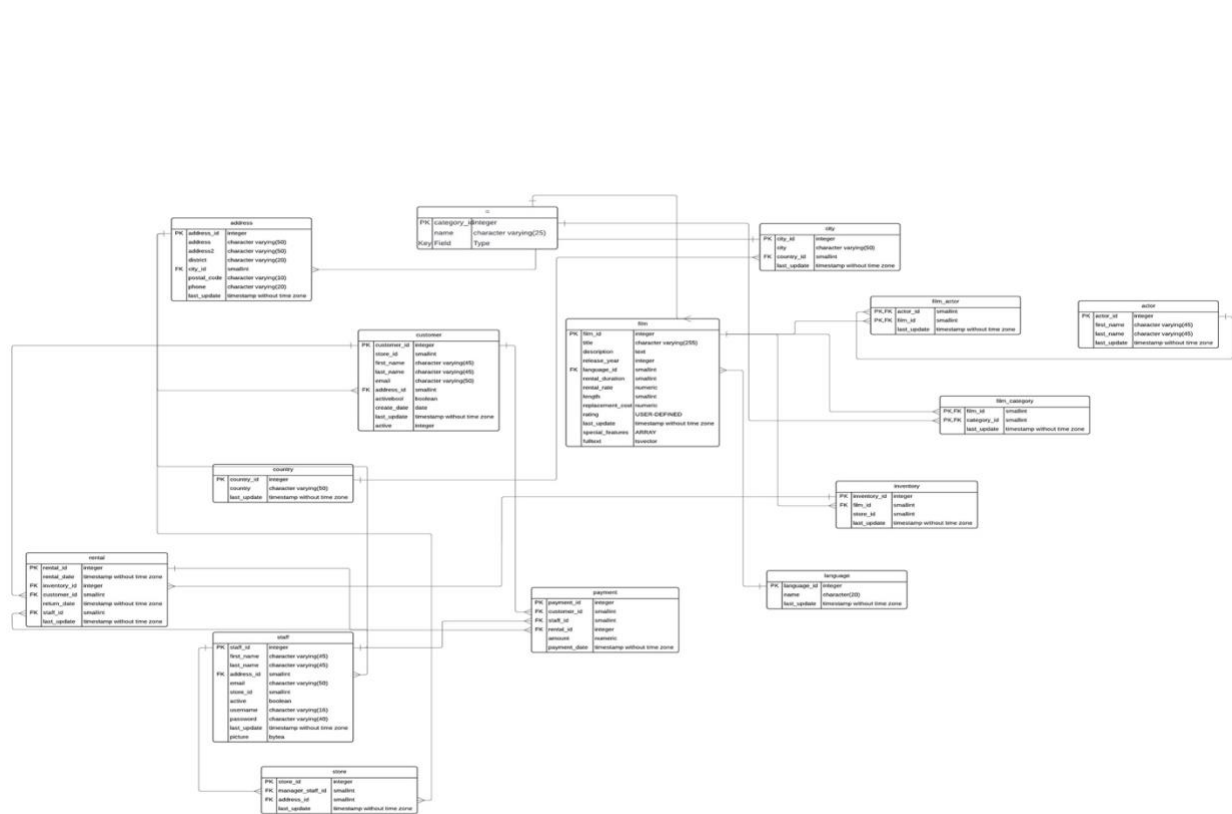
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I. Overview

This data dictionary serves as a reference for Rockbuster's 2024 Movie Rental Analysis project. The project looks at Rockbuster inventory and rental patterns across the global market.

The snowflake schema of this database is visible in the included Entity Relationship Diagram. For more details about each field and table, please refer to the Fact and Dimension Tables listed below.

II. Entity Relationship Diagram



III. Fact Tables

Payment

Columns	Data Type	Description
Payment_id	SERIAL	Primary key, unique identifier for each payment
Customer_id	SMALLINT	Foreign key, unique identifier for customer
Staff_id	SMALLINT	Foreign key, unique identifier for staff member
Rental_id	INTEGER	Foreign key, unique identifier for rental event
amount	NUMERIC	Cost of the rental
Payment_date	TIMESTAMP W/O ZONE	Date of rental payment

Rental

Columns	Data Type	Description
Rental_id	INTEGER	Primary key, unique identifier for rental event
Rental_date	TIMESTAMP W/O ZONE	Date of rental event
Inventory_id	INTEGER	Foreign key, unique identifier for item rented
Customer_id	SMALLINT	Foreign key, unique identifier for customer
Return_date	TIMESTAMP W/O ZONE	Date item returned
Staff_id	SMALLINT	Foreign key, unique identifier for staff member
Last_update	TIMESTAMP W/O ZONE	Date of most recent update for rental event

IV. Dimension Tables

Store

Columns	Data Type	Description
Store_id	SERIAL	Primary key, unique identifier for Store dimension
Manager_staff_id	SMALLINT	Foreign key, unique identifier for store manager
Address_id	SMALLINT	Foreign key, unique identifier for store location
Last_update	TIMESTAMP W/O ZONE	Date of most recent update to store data

Staff

Columns	Data Type	Description
Staff_id	INTEGER	Primary key, unique identifier for staff member
First_name	VARCHAR(45)	First name of staff member
last_name	VARCHAR(45)	Last name of staff member
Address_id	SMALLINT	Foreign key, unique identifier for staff address
Email	VARCHAR(50)	Email address of staff member
Store_id	SMALLINT	Unique identifier for store
Active	BOOLEAN	Whether store is active (True) or not (False)
Username	VARCHAR(16)	Staff member login name
Password	VARCHAR(40)	Staff member login password
Last_update	TIMESTAMP W/O ZONE	Last date record updated
Picture	BYTEA	Photo of staff member

Customer

Columns	Data Type	Description
Customer_id	SERIAL	Primary key, unique identifier for customer
Store_id	SMALLINT	Identifier for customer's active store

First_name	VARCHAR(45)	First name of customer
Last_name	VARCHAR(45)	Last name of customer
Email	VARCHAR(50)	Customer email address
Address_id	SMALLINT	Identifier of customer address
Activebool	BOOLEAN	Active Yes/True or No/False
Create_date	DATE	Date record created
Last_update	TIMESTAMP W/O ZONE	Date record last updated
active	INTEGER	Customer status

Film_category

Columns	Data Type	Description
Film_id	SMALLINT	Primary and foreign key, unique identifier of film
Category_id	SMALLINT	Primary and foreign key, unique identifier of film category
Last_update	TIMESTAMP W/O ZONE	Date record last updated

Inventory

Columns	Data Type	Description
Inventory_id	INTEGER	Primary key, unique identifier for item
Film_id	SMALLINT	Foreign key, unique identifier for film
Store_id	SMALLINT	Identifier for store with item in stock
Last_update	TIMESTAMP W/O ZONE	Date record last updated

Film_actor

Columns	Data Type	Description
Actor_id	SMALLINT	Primary key, foreign key, unique identifier for actor
Film_id	SMALLINT	Primary key, foreign key, unique identifier for film
Last_update	TIMESTAMP W/O ZONE	Date record last updated

Actor

Columns	Data Type	Description
Actor_id	INTEGER	Primary key, unique identifier for actor
First_name	VARCHAR(45)	Actor's first name
Last_name	VARCHAR(45)	Actor's last name
Last_update	TIMESTAMP W/O ZONE	Date record last updated

Film

Columns	Data Type	Description
Film_id	INTEGER	Primary key, unique identifier for film
Title	VARCHAR(255)	Film title
Description	TEXT	Description of movie
Release_year	INTEGER	Year movie released
Language_id	SMALLINT	Foreign key, unique identifier for film language
Rental_duration	SMALLINT	Length of film
Rental_rate	NUMERIC	Cost of rental
Length	SMALLINT	Time duration of film
Replacement_cost	NUMERIC	Cost to customer for replacing item
Rating	USER-DEFINED	Film rating
Last_update	TIMESTAMP W/O ZONE	Date record last updated
Special_features	ARRAY	Special features on disc
Fulltext	TSVECTOR	Keywords for film

Category

Columns	Data Type	Description
Category_id	SERIAL	Primary key, unique identifier for film category
Name	VARCHAR(25)	Name of film category
Last update	TIMESTAMP W/O ZONE	Date record last updated

Language

Columns	Data Type	Description
Language_id	SERIAL	Primary key, unique identifier for film language
Name	VARCHAR(20)	Name of language

Last_update	TIMESTAMP W/O ZONE	Date record last updated
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