

Rockbuster Stealth Data Dictionary

Prepared by Bisola Oyeyipo
CareerFoundry Data Analytics
28.02.2025

Table Of Contents

1. Overview
2. Facts Table
 - 2.1 Payment Table
 - 2.2 Rental Table
3. Dimension Table
 - 3.1 - Actor Table
 - 3.2 - Film Table
 - 3.3 – Film_actor Table
 - 3.4 - Inventory Table
 - 3.5 - Customer Table
 - 3.6 - Staff Table
 - 3.7 - Address Table
 - 3.8 - City Table
 - 3.9 - Country Table
 - 3.10 – Store Table
 - 3.11 - Film_Category Table
 - 3.12 - Category Table
4. Relationships and Key.
 - Relationship Diagram
 - Relationship between the Tables.

List of Abbreviations

- PK Primary Key.
- FK Foreign Key.

2. FACT TABLE

2.1 - Payment

Description: It contains information about payment transactions in Rockbuster.

Column	Data Type	Description
Payment_id (PK)	INTEGER	A unique identifier for payment transactions.
Customer_id (FK)	SMALLINT	A unique identifier for the customers.
Staff_id (FK)	SMALLINT	A unique identifier for staff.
Rental_id (FK)	INTEGER	A unique identifier for rental transactions.
Amount	NUMERICS (5,2)	Total amount of sales.
Payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	The date and time the payment was received.

Table Link to other Tables: staff, customer, rental

2.2 – Rental

Description: it records rentals transactions including the rental date and return date.

Column	Data Type	Description
Rental_id (PK)	INTEGER	A unique identifier for rental transactions.
Rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Time and dates when movies are rented.
Inventory_id (FK)	INTEGER	A unique identifier for the rental.
Customer_id (FK)	SMALLINT	A unique identifier for the customers.
Return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date when rental is due for return.
Staff_id (FK)	SMALLINT	A unique identifier for staff.
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date when the rental data was updated

Table Link to other Tables: customer, staff, inventory.

3. DIMENSION TABLES

3.1 – Actor

Description: Records about the actors including their names.

Columns	Data Type	Description
Actor_id (PK)	INTEGER	A 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 the data was updated

3.2 – Film

Description: Information about the films, including their rental characteristics and ratings.

Columns	Data Type	Description
Film_id (PK)	INTEGER	A unique identifier of the film
Title	CHARACTER VARYING (255)	Title of the film
Description	TEXT	Description of the film
Release_year	INTEGER	The year the film was released
Language_id (FK)	SMALLINT	A unique identifier of the primary language used in the film
Rental_duration	SMALLINT	The number of days the film was rented.
Rental_rate	NUMERIC (4,2)	Cost of renting a film per day
Length	SMALLINT	Length of film in minutes.
Replacement_cost	NUMERIC (5,2)	Cost of replacing the film if damaged or lost
Rating	Mpaa_rating	Motion Picture association of America rating system
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Time and date the data was last updated
Special_feature	TEXT	Special features included in the rental of the film.
Fulltext	tsvector	Keywords associated with the film.

Table Link to other Tables: Language Table.

3.3 - Film_actor

Description: Information about the actor that featured in the film.

Columns	Data Type	Description
Actor_id (FK)	SMALLINT	A unique identifier of an actor in a film
Film_id (FK)	SMALLINT	A unique identifier of a film
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when data was updated

Table Link to other Tables: actor and film table.

3.4 – Inventory

Description: Information about the inventory.

Columns	Data Type	Description
Inventory_id (PK)	INTEGER	A unique identifier for a specific rental unit
Film_id (FK)	SMALLINT	A unique identifier of a film
Store_id (FK)	SMALLINT	A unique identifier of the store
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when data was updated

Table Link to other Tables: Film and store table.

3.5 – Language

Description: Details about the language used in the film.

Columns	Data type	Description
Language_id (PK)	INTEGER	A unique identifier for the language used in the film

Name	CHARACTER (20)	The name of the language spoken in the film
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when data was updated

3.6 – Customer

Description: Information about the customer.

Columns	Data Type	Description
Customer_id (PK)	INTEGER	A Unique identifier of customer
Store_id (FK)	SMALLINT	A unique identifier of the store
First_name	CHARACTER VARYING (45)	The first name of the customer
Last_name	CHARACTER VARYING (45)	The last name of the customer
Email	CHARACTER VARYING (45)	The email address of the customer
Address_id (FK)	SMALLINT	A unique identifier is assigned to the customer address
Activebool	BOOLEAN	It identifies if customer is active in the system. (the true or false value)
Create_date	DATE	The date the customer was input into the system.
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time the system was updated
Active	INTEGER	If the customer is still active or not

Table Link to other Tables: Store and address table.

3.7 – Staff

Description: Information about the staff.

Column	Data Type	Description
Staff_id (PK)	INTEGER	A unique identifier of the staff
First_name	CHARACTER VARYING (45)	The first name of the staff
Last_name	CHARACTER VARYING (45)	The last name of the staff
Address_id (FK)	SMALLINT	A unique identifier is assigned to the address of the staff
Email	CHARACTER VARYING (50)	Email address of the the staff
Store_id (FK)	SMALLINT	A unique identifier for the store
Active	BOOLEAN	It identifies if the staff is still active
Username	CHARACTER VARYING (16)	Username of the staff
Password	CHARACTER VARYING (40)	Password of the staff
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time the data was updated.
Picture	BYTEA	Picture of the staff

Table Link to other Tables: address and store table:

3.8 – Address

Description: Information about the address of the customer and staff.

Columns	Data Type	Description
Address_id (PK)	INTEGER	A unique identifier of customer/staff address
Address	CHARACTER VARYING (50)	Address details
Address2	CHARACTER VARYING (50)	Additional address details
District	CHARACTER VARYING (20)	Name of district
City_id (FK)	SMALLINT	A unique identifier of the city where the customer/staff is located.
Postal_code	CHARACTER VARYING (10)	Postal code of the customer/staff
Phone	CHARACTER VARYING (20)	Phone number of the customer/staff
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of data that was updated.

Table Link to other Tables: City table.

3.9 – City

Description: Information about the city where the staff and customer are located.

Columns	Data Type	Description
City_id (PK)	INTEGER	A unique identifier of city where customer/staff is located.
City	CHARACTER VARYING (50)	Name of city of the staff/customer.
Country_id (FK)	SMALLINT	A unique identifier of the country where customer/staff is located.
Last_updated	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when the data was updated.

Table Link to other Tables: Country table.

3.10 – Country

Description: Information about the country where the customer and staff are located.

Column	Data Type	Description
Country_id (PK)	INTEGER	A unique identifier of country where customer/staff is located
Country	CHARACTER VARYING (50)	Name of country of the staff/customer
Last_updated	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when the data was updated

3.11 - Store

Description: Information about the store.

Column	Data Type	Description
Store_id (PK)	INTEGER	A unique identifier of the store.
Manager_staff_id (FK)	SMALLINT	A unique identifier for managers in the store of rockbuster

Address_id (FK)	SMALLINT	A unique identifier of the address of the store for rockbuster
Last_updated	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when the data was updated.

Table Link to other Tables: address and staff table.

3.12 - Film_Category

Description: Information about the category of the film.

Column	Data Type	Description
Film_id	SMALLINT	A unique identifier for film
Category_id	SMALLINT	A unique identifier for film category.
Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when the data was updated

Table Link to other Tables : Film and category table.

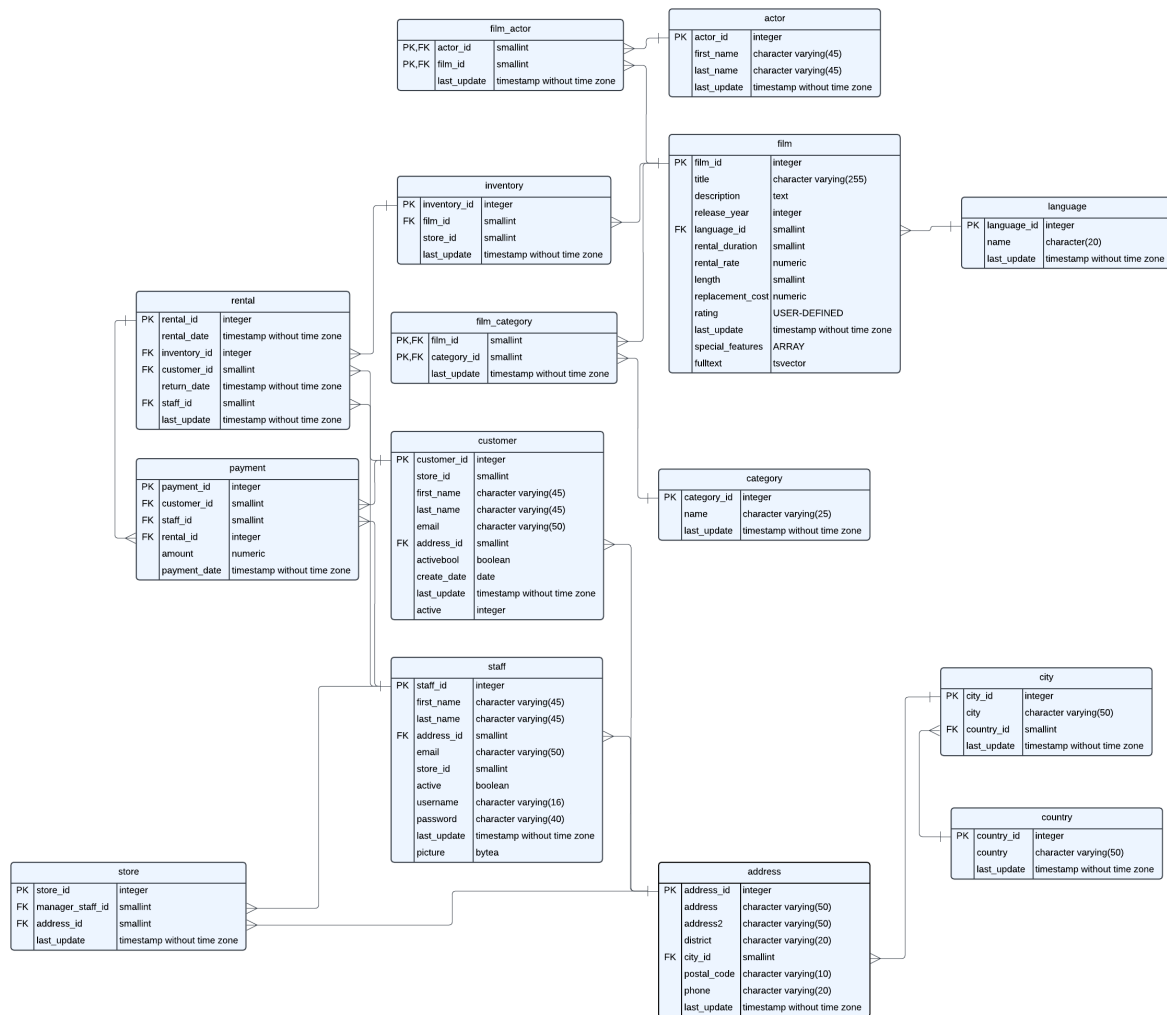
3.13 – Category

Description: Information about the film category.

Column	Data Type	Description
Category_id (PK)	INTEGER	A unique identifier of film category.
Name	CHARACTER VARYING (25)	Name of the category.
Last_Update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time when the data was updated

4 - Relationship and keys.

4.1 - Relationship Diagram



4.2 - Primary and Foreign Keys Reference

- Primary Key:** They are the unique identifiers for the tables and in this database the primary keys are Customer_id and Film_id.
- Foreign Keys:** The foreign key within this database is the language_id in film table which is linked to language table.