# **ROCKBUSTER LLC**

**Data Dictionary** 

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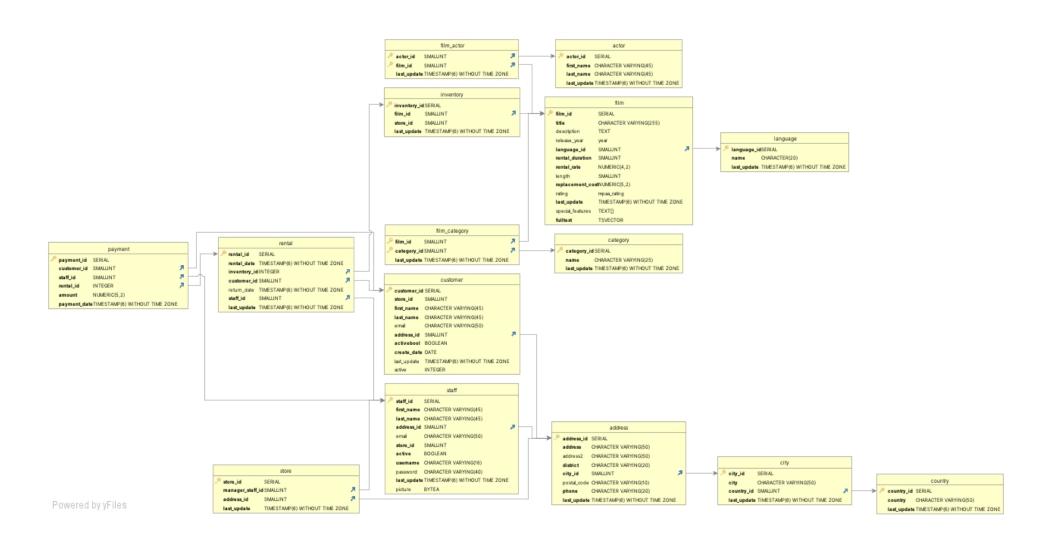
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# 1. The Company

Rockbuster Stealth LLC, a global movie rental enterprise that once boasted a widespread presence with physical stores worldwide, is currently confronted with intense competition from streaming giants like Netflix and Amazon Prime.

# 1. The Entity Relationship Diagram (ERD)

The Rockbuster database has a snowflake schema. The fact table (rental) is in the center and surrounded by dimension tables and sub-dimension tables.



# 2. Tables

0	Primary key
$\leftrightarrows$	Foreign key

# Fact Tables

#### Rental

	Column	Data Type	Description
0	Rental_id	SERIAL	Primary Key, identifying unique rental event
	Rental_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date of movie rental
$\leftrightarrows$	Inventory_id	INTEGER	Unique ID, linked to inventory information
$\leftrightarrows$	Customer_id	SMALLINT	Unique ID, linked to customer information
	Return_date	TIMESTAMP (6) WITHOUT TIMEZONE	Date, when movie is returned to the system
$\Longrightarrow$	Staff_id	SMALLINT	Unique ID, linked to staff information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

### **Payment**

	Column	Data Type	Description
<del>-</del>	Payment_id	SERIAL	Primary Key, identifying unique payment transaction
$\leftrightarrows$	Customer_id	SMALLINT	Unique ID, linked to customer information
$\leftrightarrows$	Staff_id	SMALLINT	Unique ID, linked to staff information
$\leftrightarrows$	Rental_id	INTEGER	Unique ID, linked to rental information
	Amount	NUMERIC(5,2)	Total amount linked to specific rental transaction
	Payment_date	TIMESTAMP (6) WITHOUT TIMEZONE	Transaction date

# **Dimension Tables**

#### Customer

	Column	Data Type	Description
0	Customer_id	SERIAL	Unique ID for each costumer record
	Store_id	SMALLINT	Unique ID, linked to store information
	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 from the customer
$\leftrightarrows$	Address_id	SMALLINT	Address of the customer
	Activebool	BOOLEAN	true or false statement
	Create_date	DATE	Date record was created
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update
	Active	INTEGER	Binary 1/0 if customer is active

#### Staff

	Column	Data Type	Description
0	Staff_id	SERIAL	Unique ID for each staff member
	Store_id	SMALLINT	Unique ID, linked to store information
	First_name	CHARACTER VARYING(45)	First name of the staff member
	Last_name	CHARACTER VARYING(45)	Last name of the staff member
	Email	CHARACTER VARYING(50)	Email from the staff member
$\leftrightarrows$	Address_id	SMALLINT	Address of the staff member
	Active	BOOLEAN	staff member account is active – true/false
	User_name	CHARACTER VARYING(16)	Online username of staff member
	Password	CHARACTER VARYING(40)	Online password of staff member
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update
	Picture	BYTEA	Photo of staff member

#### Store

	Column	Data Type	Description
0	Store_id	SERIAL	Unique ID, linked to store information
$\leftrightarrows$	Manager_staff_id	SMALLINT	Unique ID, linked to staff information
$\stackrel{\longleftarrow}{\longrightarrow}$	Address_id	SMALLINT	Unique ID, linked to address information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

#### Address

	Column	Data Type	Description
0	Address_id	SERIAL	Unique ID
	Address	CHARACTER VARYING(50)	Address details
	Address2	CHARACTER VARYING(50)	Extra address details
	District	CHARACTER VARYING(20)	Name of the district
$\leftrightarrows$	City_id	SMALLINT	Unique city number
	Postal_code		Postal code details
	Phone	CHARACTER VARYING(20)	Phone number
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

# City

	Column	Data Type	Description
0	City_id	SERIAL	Unique ID
	City	CHARACTER VARYING(50)	Name of the city
$\leftrightarrows$	Country_id	SMALLINT	Unique country number
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

# Country

	Column	Data Type	Description
0	Country_id	SERIAL	Unique ID
	Country	CHARACTER VARYING(50)	Name of the country
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

#### Film Actor

	Column	Data Type	Description
$\leftrightarrows$	Actor_id	SMALLINT	Unique ID, linked to actor information
$\leftrightarrows$	Film_id	SMALLINT	Unique ID, linked to film information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

#### Actor

	Column	Data Type	Description
8	Actor_id	SERIAL	Unique ID, linked to actor information
	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 the last update

# Inventory

	Column	Data Type	Description
0	Inventory_id	SERIAL	Unique ID, linked to inventory information
$\stackrel{\longleftarrow}{\longrightarrow}$	Film_id	SMALLINT	Unique ID, linked to film information
	Store_id	SMALLINT	Unique ID, linked to store information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

# Language

	Column	Data Type	Description
0	Language_i d	SERIAL	Unique ID, linked to language information
	Name	CHARACTER (20)	Name of the language
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

### Film

	Column	Data Type	Description
<del>0</del>	Film_id	SERIAL	Unique ID
	Title	CHARACTER VARYING(255)	Title of the movie
	Description	TEXT	Description of the movie
	Release_year	YEAR	Release year
$\leftrightarrows$	Language_id	SMALLINT	Unique ID, linked to language information
	Rental_duration	SMALLINT	Duration of movie rental
	Rental_rate	NUMERIC(4,2)	Rating score by customers
	Length	SMALLINT	Duration of the movie
	Replacement_cos t	NUMERIC(5,2)	Costs to replace the rental movie
	Rating	MPAA_RATING	Age rating
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update
	Special_features	TEXT[]	Special features of the movie
	Fulltext	TSVECTOR	Additional movie information

### Film Category

	Column	Data Type	Description
	Film_id	SMALLINT	Unique ID, linked to film information
<b>∴</b> ≒	Category_id	SMALLINT	Unique ID, linked to category information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update

# Category

	Column	Data Type	Description
	Film_id	SMALLINT	Unique ID, linked to film information
<b>⊕</b> ≒	Category_id	SMALLINT	Unique ID, linked to category information
	Last_update	TIMESTAMP (6) WITHOUT TIMEZONE	Date and time of the last update