2023

ROCKBUSTER

DATA DICTIONARY

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1) Entity Relationship Diagram
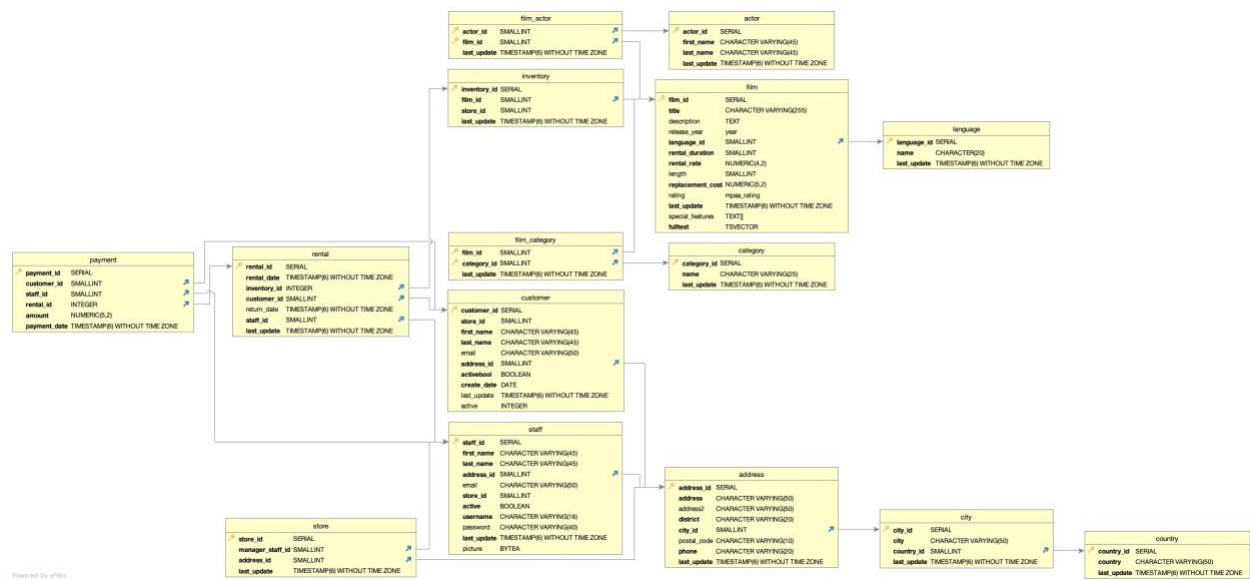
2) Fact Tables:

2.1 Payment		
Columns	**Data Type**	**Description**
Payment_id (Primary Key)	SERIAL	A number to represent a movie payment
Customer_id	SMALLINT	A number to represent a customer
Staff_id	SMALLINT	A number to represent a staff member
Rental_id	INTEGER	A number to represent a movie rental
Amount	NUMERIC (5,2)	The amount paid for a movie
Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date a movie was purchased
Linked Tables: Customer, rental, staff		

2.2 Rental		
Columns	**Data Type**	**Description**
Rental_id (Primary Key)	SERIAL	A number to represent a movie rental
Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date a movie was rented
Inventory_id	INTEGER	A number to represent an item in the inventory
Customer_id	SMALLINT	A number to represent a customer
Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date a movie was returned
Staff_id	SMALLINT	A number to represent a a staff member
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Customer, inventory, store		

3) Dimension Tables:

3.1 Film		
Columns	**Data Type**	**Description**
Film_id (Primary Key)	SERIAL	A number to represent a movie
Title	CHARACTER VARYING(255)	Title of the movie
Description	TEXT	Description of the movie
Release_year	year	The year the movie was released
Language_id	SMALLINT	A number to represent which language the movie is in
Rental_duration	SMALLINT	A number to represent how long a movie was rented
Rental_rate	NUMERIC(4,2)	A number to represent how often a movie is rented
Length	SMALLINT	A number to represent how long a movie is
Replacement_cost	NUMERIC(5,2)	How much a movie replacement costs
Rating	Mpaa_rating	What the movie rating is
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Special_features	TEXT[]	Specifies if a movie has additional features (trailers, behind the scenes)
fulltext	TSVECTOR	A variety of words that represent the movie
Linked Tables: Film_actor, inventory, film_category, language		

3.2 Film-actor		
Columns	**Data Type**	**Description**
Actor_id (Primary Key)	SMALLINT	A number to represent a movie actor
Film_id (Primary Key)	SMALLINT	A number to represent a movie
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Actor, film		

3.3 Inventory		
Columns	**Data Type**	**Description**
Inventory_id (Primary Key)	SERIAL	A number to represent an item in the inventory
Film_id	SMALLINT	A number to represent a movie
Store_id	SMALLINT	A number to represent a store
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Rental, film		

3.4 Film_category		
Columns	**Data Type**	**Description**
Film_id (Primary Key)	SMALLINT	A number to represent a movie
Category_id (Primary Key)	SMALLINT	A number to represent a movie category
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Film, category		

3.5 Customer		
Columns	**Data Type**	**Description**
Customer_id (Primary Key)	SERIAL	A number to represent a customer
Store_id	SMALLINT	A number to represent 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	A number to represent the customer address
activebool	BOOLEAN	States if the information is true or false
Create_date	DATE	The date a customer created an account with the company
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
active	INTEGER	A number to represent whether the customer is active or not
Linked Tables: Rental, address		

3.6 Staff

Columns	Data Type	Description
Staff_id (Primary Key)	SERIAL	A number to represent a a staff member
First_name	CHARACTER VARYING(45)	A staff members first name
Last_name	CHARACTER VARYING(45)	A staff members last name
Address_id	SMALLINT	A number to represent an address
Email	CHARACTER VARYING(50)	A staff members email
Store_id	SMALLINT	A number to represent a store location
active	BOOLEAN	States if staff member is active or not
Username	CHARACTER VARYING(16)	A staff members username
Password	CHARACTER VARYING(40)	A staff members password
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
picture	BYTEA	A picture of the staff member
Linked Tables: Payment, store, rental, address		

3.7 Store

Columns	Data Type	Description
Store_id (Primary Key)	SERIAL	A number to represent a store location
Manager_staff_id	SMALLINT	A number to represent store manager staff
Address_id	SMALLINT	A number to represent an address
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Staff, address		

3.8 Actor

Columns	Data Type	Description
Actor_id (Primary Key)	SERIAL	A number to represent a movie actor
First_name	CHARACTER VARYING(45)	The first name of a movie actor
Last_name	CHARACTER VARYING(45)	The last name of a movie actor
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Film_actor		

3.9 Category

Columns	Data Type	Description
Category_id (Primary Key)	SERIAL	A number to represent a movie category
Name	CHARACTER VARYING(25)	The name of the movie category
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Film_category		

3.10 Address		
Columns	**Data Type**	**Description**
Address_id <mark>(Primary Key)</mark>	SERIAL	A number to represent an address
address	CHARACTER VARYING(50)	The first address of a customer
Address2	CHARACTER VARYING(50)	The second address of a customer
District	CHARACTER VARYING(20)	The district that the customer lives in
City_id	SMALLINT	A number to represent the city a customer lives in
Postal_code	CHARACTER VARYING(10)	The postal code a customer lives in
phone	CHARACTER VARYING(20)	The phone number of the customer
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Store, staff, customer, city		

3.11 Language		
Columns	**Data Type**	**Description**
Language_id <mark>(Primary Key)</mark>	SERIAL	A number to represent a language
Name	CHARACTER(20)	The name of the language
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Film		

3.12 City		
Columns	**Data Type**	**Description**
City_id <mark>(Primary Key)</mark>	SERIAL	A number to represent a city
City	CHARACTER VARYING(50)	The name of the city
Country_id	SMALLINT	A number to represent a country
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: Address, country		

3.13 Country		
Columns	**Data Type**	**Description**
Country_id <mark>(Primary Key)</mark>	SERIAL	A number to represent a country
Country	CHARACTER VARYING(50)	The name of the country
Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	The last date the information within this table was updated
Linked Tables: City		