

ROCKBUSTER MOVIE RENTAL ANALYSIS PROJECT

DATA DICTIONARY



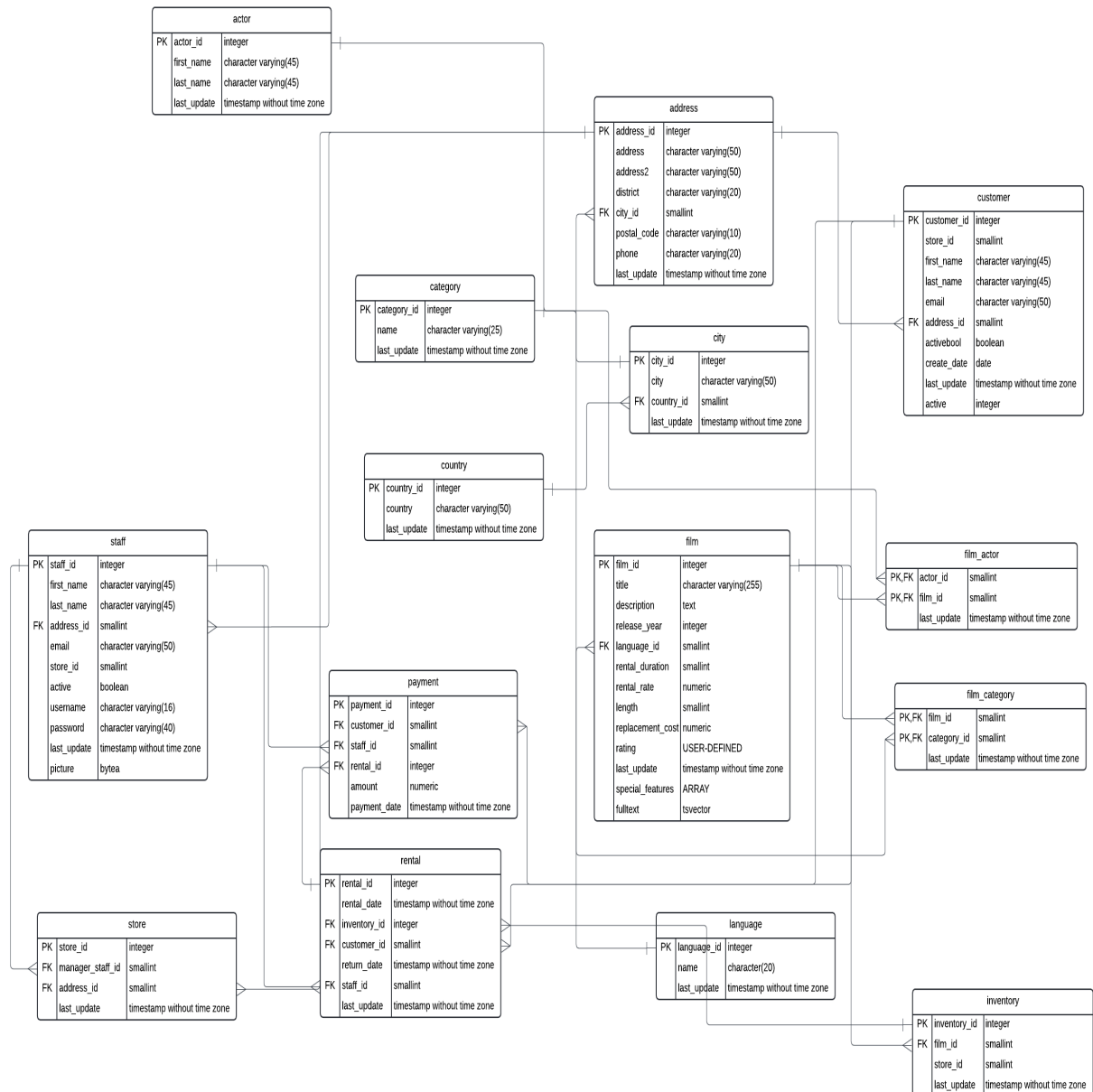
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Overview

- This document serves as a data dictionary for the Rockbuster database, outlining structures like tables and relationships Entity 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, then dimension tables are surrounded by subdimension table. All of these together form a snowflake schema.

Entity Relationship Diagram ERD



Fact tables

Rental

Column	Data Type	Description
Rental_id	Integer	Unique identifier for each rental transaction
Rental_Date	Timestamp without timezone	Data of rental occurred
Inventory_id	Integer	Unique identifier for inventory
Customer_id	Smallint	Unique identifier for customer
Return Date	Timestamp without timezone	Date of item be returned
Staff_id	Smallint	Unique identifier for staff
Last_update	Timestamp without timezone	Date and time of record last updated

Payment

Column	Data Type	Description
Payment_id	Integer	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 rental
Amount	Numeric(5,2)	Price of the rent
Payment_date	Timestamp without timezone	Date of the Payment

Dimension Tables

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 without timezone	Date and time of the record last updated

Customer

Column	Data Type	Description
Customer_id	Integer	Unique number of the 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 address of the customer
Address_id	Smallint	Address of the customer
Activebool	Boolean	Active or not
Create_date	Date	Date of being created
Last_update	Timestamp without timezone	Date and time of record last updated
Active	Integer	Active or not

Staff

Column	Data Type	Description
Staff_id	Integer	Unique number of the staff member
Store_id	Smallint	Unique identifier of a store
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 address of the staff person
Address_id	Smallint	Address of the staff person
Active	Boolean	Active or not
User_name	Character Varying(16)	User_name of the staff
Password	Character Varying(40)	Password of the staff
Last_update	Timestamp without timezone	Date and time of record last updated
Picture	Bytea	Photo of the staff person

Film

Column	Data Type	Description
Film_id	Integer	Unique number of a film
Title	Character Varying(255)	Title of the movie
Description	Text	Description of the movie
Release_year	Integer	Year of the movie release
Language_id	Smallint	Unique identifier of the language
Rental_duration	Smallint	How long the movie has been rented
Rental_rate	Numeric(4,2)	Percentage of rent
Length	Smallint	Duration of the movie
Replacement_cost	Numeric(5,2)	Costs to replace the rental movie
Rating	Mpaa_rating	Which age group can watch the movie
Last_update	Timestamp without timezone	Date and time of record last updated
Special_features	Text	Special features of the movie
Fulltext	TSVECTOR	Text of the movie

Store

Column	Data Type	Description
Store_id	Integer	Unique identifier of a store
Manager_staff_id	Smallint	Unique identifier of a store manager
Address_id	Smallint	Address of the store
Last_update	Timestamp without timezone	Date and time of the record last updated

Address

Column	Data Type	Description
Address_id	Integer	Unique number of address
Address	Character Varying(50)	Detailed Address
Address2	Character Varying(50)	Extra Address Details
District	Character Varying(20)	Name of the District
City_id	Smallint	Unique no.of the city
Postal_code	Character Varying(10)	Postal code details
Phone	Character Varying(20)	Contact number
Last_update	Timestamp without Timezone	Date and time of the record last updated

City

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

Country

Column	Data Type	Description
Country_id	Integer	Unique identifier of a country
Country	Character Varying(50)	Name of the country

Last_update	Timestamp without timezone	Date and time of the record last updated
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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 without timezone	Date and time of the record last updated

Category

Column	Data Type	Description
Category_id	Integer	Unique identifier of a category
Name	Character Varying(25)	Name of the category
Last_update	Timestamp without timezone	Date and time of the record last updated

Language

Column	Data Type	Description
Language_id	Integer	Unique identifier of the language
Name	Character	Name of the language
Last_update	Timestamp without timezone	Date and time of the 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 without timezone	Date and time of the record last updated