Rockbuster Movie Rental Analysis Project Data Dictionary

Lisely Hernandez

Table of Contents
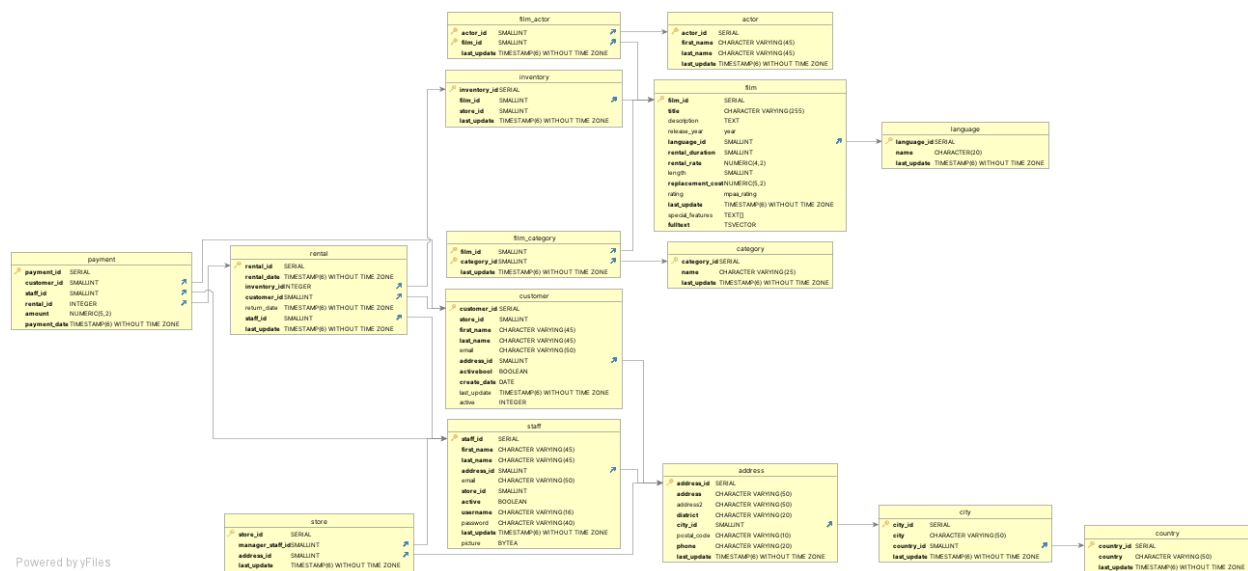
Overview

This document contains a detailed data dictionary for the Rockbuster database intended to facilitate efficient data management and querying in PostgreSQL.

The Rockbuster database is designed to manage and store data for a video rental business. It encompasses information about films, actors, inventory, rentals, payments, and other relevant details. The database follows a snowflake schema where the central fact tables (rental and payment) are connected to dimension tables such as inventory and customer, which in turn are linked to sub-dimension tables, creating a complete snowflake schema structure

- **Payment**

	Columns	Data Type	Description
🔑	Payment_id	Serial	Unique identifier of payment
	Customer_id	Smallint	Unique identifier of customer information
	Staff_id	Smallint	Unique identifier of staff information
	Rental_id	Integer	Unique identifier or number that represents the rental
	amount	Numeric	It is the price of the rental
	payment _date	Timestamp(6) without time zone	This is the timestamp of when the payment was made

- **Rental**

	Columns	Data Type	Description
🔑	rental_id	Serial	Unique identifier of the rental
	rental_date	Timestamp(6) without time zone	This is the timestamp of when the rental was rented
	inventory_id	Integer	This is the unique identifier for inventory
	Customer_id	Smallint	Unique identifier for customer information
	return_date	Timestamp(6) without time zone	This is the timestamp of when the rental was returned
	staff_id	smallint	Unique identifier for staff
	last_update	Timestamp(6) without time zone	This is the timestamp of the last updated record

- **Actor**

	Columns	Data Type	Description
🔑	actor_id	serial	Unique identifier of actor
	first_name	Character varying(45)	First name of actor
	last_name	Character varying(45)	Last name of actor
	last_update	Timestamp(6) without time zone	Timestamp of last recorded record

- **Address**

	Columns	Data Type	Description
🔑	adress_id	serial	Unique identifier of address
	address	Character varying(50)	address
	Address 2	Character varying(50)	The second address line
	District	Character varying(20)	The district
	city_id	smallint	unique identifier of city
	postal_code	Character varying(10)	The postal or zip code
	phone	Character varying(20)	The phone number address
	Last update	timestamp(6) without time zone	Timestamp of last recorded record

- **Category**

	Columns	Data Type	Description
🔑	Category_id	serial	Unique identifier of film category
	name	Character varying(25)	Name of the category
	last_update	timestamp(6) without time zone	Timestamp of last recorded record

- **City**

	Columns	Data Type	Description
🔑	city_id	serial	Unique identifier of city
	city	Character varying(50)	Name of city
	country_id	smallint	Unique identifier of country
	last_update	timestamp(6) without time zone	Timestamp of last recorded record

- **Country**

	Columns	Data type	Description
🔑	country_id	serial	Unique identifier of country
	country	Character varying(50)	Name of country
	Last update	timestamp(6) without time zone	Timestamp of last recorded record

- **Customer**

	Columns	Data Type	Description
🔑	customer_id	serial	Unique identifier of customer
	store_id	smallint	Unique identifier of the stores
	first_name	Character varying(45)	First name of customer
	last_name	Character varying(45)	Last name of customer
	email	Character varying(50)	Email of customer
	adress_id	smallint	Address of customer
	activebool	boolean	Active or not
	create_date	date	When account was created
	last_update	timestamp(6) without time zone	When account was last updated

	active	integer	Active or not

● Film

	Columns	Data Type	Description
🔑	film_id	serial	Unique identifier of film
	title	Character varying	Title of the film
	description	text	Description of the film
	release_year	year	Release year of the film
	language_id	smallint	The language of the film
	rental_duration	smallint	How long the rental can be rented for
	rental_rate	numeric(4,2)	The amount the rental costs
	length	smallint	The length of the film
	replacement _cost	numeric(5,2)	The replacement cost of the rental
	rating	mpaa_rating	The age group rating of the film
	last_update	timestamp(6) without time zone	Timestamp of last recorded record
	special_features	text[]	Special features of the movie
	fulltext	tsvector	Full text of the movie

● Film Actor

	Columns	Data Type	Description
🔑	actor_id	smallint	Unique identifier of actor
🔑	film_id	smallint	Unique identifier of film
	last_update	Timestamp (6) without time zone	Timestamp of the last recorded record

- **Film Category**

	Columns	Data Type	Descriptions
🔑	film_id	smallint	Unique identifier of film
🔑	category_id	smallint	Unique identifier of film category
	last_updates	timestamp(g) without time zone	Timestamp of last recorded record

- **Inventory**

	Columns	Data Type	Description
🔑	Inventory_id	serial	Unique identifier of inventory
	film_id	smallint	Unique identifier of film
	store_id	smallint	Unique identifier for the stores
	last_update	timestamp(6) without time zone	Timestamp of last recorded record

- **Language**

	Columns	Data Type	Description
🔑	Language_id	serial	Unique identifier of the language
	name	character(20)	Name of the language
	last_update	last_update	Timestamp of last recorded record

- **Staff**

	Columns	Data Type	Description
🔑	staff_id	serial	Unique identifier of staff
	first_name	Character varying(45)	First name of staff
	last_name	Character varying(45)	Last name of staff
	adress_id	smallint	Address of staff
	email	Character varying(50)	Email of staff
	store_id	smallint	Unique identifier of stores
	active	boolean	Active or not
	username	Character varying(16)	Username of staff
	password	Character varying(40)	Password of staff
	last_update	Timestamp(6) without time zone	Timestamp of last recorded record
	picture	bytea	Picture of staff

- **store**

	Columns	Data Type	Description
🔑	store_id	serial	Unique identifier of stores
	manager_staff_id	smallint	Unique identifier of managers
	adress_id	smallint	Store address
	last_update	timestamp(6) without time zone	Timestamp of last recorded record