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Data Dictionary Database

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ROCKBUSTER

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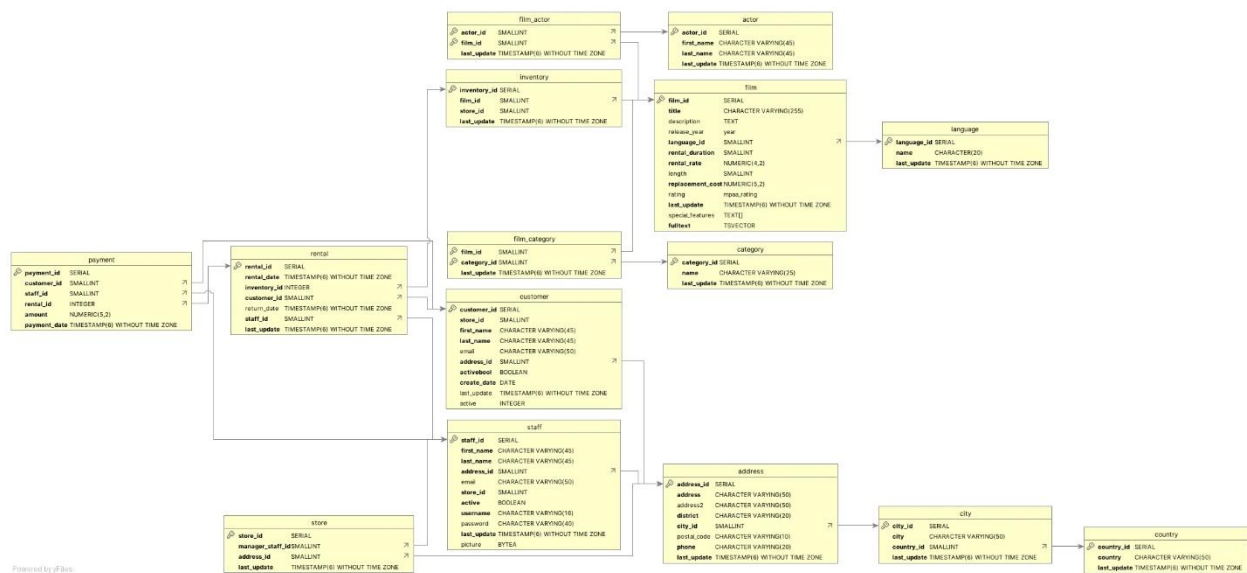
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Overview

This document serves as a detailed data dictionary for the Rockbuster database, outlining its tables and their relationships to facilitate efficient data management and querying in PostgreSQL.

The Rockbuster database is structured using a snowflake schema and is specifically designed for managing data related to a video rental business. It includes detailed information on films, actors, inventory, rentals, payments, customers, locations, etc.

Entity Relation Diagram



Fact Tables

Film Category

Column	Data Type	Description
Film ID	Small Integer	Primary key identifying individual films
Category ID	Small Integer	Category of film
Last Update	Time stamp without time zone	Most recent update of entry

Customer

Column	Data Type	Description
Customer ID	Integer	Primary key identifying individual customers
Store ID	Small Integer	Identifies which store the customer is associated with
First Name	Character Varying 45	Customer first name
Last Name	Character Varying 45	Customer last name
Email	Character Varying 50	Customer email address
Address ID	Small Integer	Number used to identify customer address, city, and country
Active?	Boolean (True or False)	Answers if customer is active
Create Date	Date	When customer started first purchase
Last Update	Time stamp without time zone	Most recent update of entry
Active	Integer	Indicates customer active status

Staff

Column	Data Type	Description
Staff ID	Integer	Primary key identifying individual staff
Store ID	Small Integer	Identifies which store staff is associated with
First Name	Character Varying 45	Staff first name
Last Name	Character Varying 45	Staff last name
Email	Character Varying 50	Staff email address
Address ID	Small Integer	Number used to identify staff address, city, and country
Active?	Boolean (True or False)	Answers if staff is active
Username	Character Varying 16	Staff username login
Password	Character Varying 40	Staff username password
Last Update	Time stamp without time zone	Most recent update of entry
Picture	Bytea	Staff picture

Inventory

Column	Data Type	Description
Inventory ID	Serial	Primary key identifying inventory
Film ID	Small Integer	Number used to identify film title
Store ID	Small Integer	Number used to identify which store location inventory is located at
Last Update	Time stamp without time zone	Most recent update of entry

Film Actor

Column	Data Type	Definition
Actor ID	Small Integer	Primary key used to identify actor in a film
Film ID	Small Integer	Foreign key used to identify film actor is in
Last Update	Time stamp without time zone	Most recent update of entry

Dimension Tables

Payment

Column	Data Type	Definition
Payment ID	Integer	Primary key used to identify a single transaction
Customer ID	Small Integer	Used to identify customer who made payment
Staff ID	Small Integer	Used to identify staff who oversaw payment
Rental ID	Integer	Rental order number
Amount	Numeric (5,2)	Total amount for payment
Payment Date	Timestamp without timezone	Date of payment

Rental

Column	Data Type	Description
Rental ID	Integer	Primary key to identify rental order
Rental Date	Timestamp without timezone	Start date of rental order
Inventory ID	Integer	Used to identify inventory item
Return Date	Timestamp without timezone	Date rental is due for return
Staff ID	Small Integer	Used to identify staff who oversaw rental order
Customer ID	Small Integer	Used to identify customer who placed rental order
Last Update	Time stamp without time zone	Most recent update of entry

Store

Column	Data Type	Description
Store ID	Integer	Primary key used to identify store location
Manager Staff ID	Small Integer	Used to identify manager of store location
Address ID	Small integer	Store address
Last Update	Time stamp without time zone	Most recent update of entry

Actor

Column	Data Type	Definition
Actor ID	Integer	Primary key used to identify actor
First Name	Character Varying 45	Actor first name
Last Name	Character Varying 45	Actor last name
Last Update	Time stamp without time zone	Most recent update of entry

Language

Column	Data Type	Definition
Language ID	Integer	Primary key used to identify type of language the film is
Name	Character	Name of language
Last Update	Time stamp without time zone	Most recent update of entry

Film

Column	Data Type	Definition
Film ID	Integer	Primary key to identify film name
Title	Character Varying 255	Film title
Description	Text	Film description
Release Year	Integer	Year film released
Language ID	Small Integer	Film language
Rental Duration	Small Integer	Days film was rented
Rental Rate	Numeric (4,2)	Cost to rent film
Length	Small Integer	Film length
Replacement Cost	Numeric (5,2)	Cost to replace missing film
Rating	Mpaa rating	Film's age rating
Last Update	Time stamp without time zone	Most recent update of entry
Special Features	Text	Special features included with film
Full Text	tsvector	Film keywords

Category

Column	Data Type	Definition
Category ID	Integer	Primary key used to identify genre of film
Name	Character Varying 25	Genre name
Last Update	Time stamp without time zone	Most recent update of entry