DATA DICTIONARY
ROCKBUSTER DATABASE

ISAAC CONTRERAS

ROCKBUST
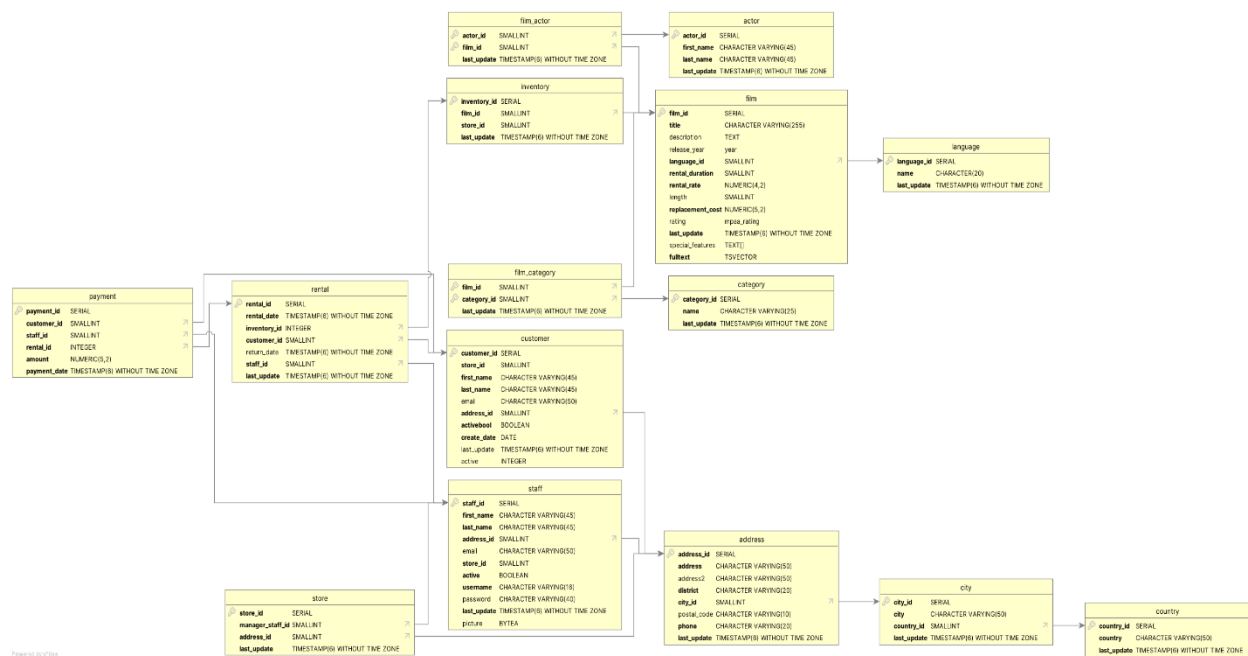
Contents

Context

   This document provides a comprehensive data dictionary for the Rockbuster database, detailing its tables and relationships to support effective data management and querying in PostgreSQL.

   The Rockbuster database is designed to handle and store data for a video rental business. It includes information on films, actors, inventory, rentals, payments, and other relevant details. The database employs a snowflake schema.

Entity Relation Diagram

Fact Tables

Payment

Name	Data Type	Description
payment_id **(Key)**	integer	Unique identifier of a payment
customer_id	smallint	Unique identifier of customer
staff_id	smallint	Unique identifier of a staff member
rental_id	integer	Unique identifier of a rental
amount	Numeric(5,2)	Price of the rental

Rental

Name	Data Type	Description
rental_id **(Key)**	integer	Unique identifier of each rental transaction
rental_date	timestamp without time zone	Date of rental occurrence
inventory_id	integer	Unique identifier of inventory
customer_id	smallint	Unique identifier of customer
return_date	timestamp without time zone	Date of item returned
staff_id	smallint	Unique identifier of staff

Dimensions Tables

Actor

Name	Data Type	Description
actor_id (**Key**)	integer	Primary key
first_name	character varying (45)	Actor's first name
last_name	character varying (45)	Actor's last name

Address

Name	Data Type	Description
address_id **(Key)**	integer	Primary Key
address	character varying (50)	First street address line
address2	character varying (50)	Second street address line
district	character varying (20)	District/region name
city_id	smallint	Foreign key - City
postal_code	character varying (10)	Postal code
phone	character varying (20)	Phone number
last_update	timestamp without time zone	Date of the last update

Category

Name	Data Type	Description
category_id **(Key)**	integer	Primary Key
name	character varying (25)	Name of the film category
last_update	timestamp without time zone	Date of the last update

City

Name	Data Type	Description
city_id **(Key)**	integer	Primary Key
city	character varying (50)	City name
country_id	smallint	Foreign key - Country
last_update	timestamp without time zone	Date of the last update
city_id	integer	Primary Key

Country

Name	Data Type	Description
country_id **(Key)**	integer	Primary Key
country	character varying (50)	Country name
last_update	timestamp without time zone	Date of the last update

Film

Name	Data Type	Description
film_id **(Key)**	integer	Primary Key
title	character varying (255)	Film title
description	text	Film synopsis with unlimited length
release_year	year	Year the film was released
language_id	smallint	Foreign key - Language
rental_duration	smallint	Number of days the item was rented
rental_rate	numeric(4,2)	Rental rate
length	smallint	Length of film

replacement_cost	numeric(5,2)	Cost the customer can be charged in case of loss or damage
rating	mpaa_rating	Film rating
last_update	timestamp without time zone	Date of the last update
special_features	text	A list of special features included with the film
fulltext	tsvector	A full-text search vector that enables efficient text search capabilities for film descriptions and other relevant textual content.

Film_actor

Name	Data Type	Description
actor_id **(Key)**	smallint	Primary Key (Foreign key to Actor)
film_id **(Key)**	smallint	Primary Key (Foreign key to Film)
last_update	timestamp without time zone	Date of the last update

Film_category

Name	Data Type	Description
film_id	smallint	Primary Key (Foreign key to Film)
category_id	smallint	Primary Key (Foreign key to Category)
last_update	timestamp without time zone	Date of the last update

Inventory

Name	Data Type	Description
inventory_id	integer	Primary Key
film_id	smallint	Foreign key - Film
store_id	smallint	Foreign key - Store
last_update	timestamp without time zone	Date of the last update

Language

Name	Data Type	Description
language_id	integer	Primary Key
name	character(20)	Language of the film
last_update	timestamp without time zone	Date of the last update

Staff

Name	Data Type	Description
staff_id	integer	Primary Key
first_name	character varying (45)	Employee's first name
last_name	character varying (45)	Employee's last name
address_id	smallint	Employee's address
email	character varying (50)	Employee's email
store_id	smallint	Foreign key - Store
active	boolean	Statement to indicate the employee's status (true/false)
username	character varying	Employee's username

password	character varying	Employee's password
last_update	timestamp without time zone	Date of the last update
picture	bytea	Employee's picture

Store

Name	Data Type	Description
store_id	smallint	Primary Key
manager_staff_id	smallint	Foreign key - Manager
address_id	smallint	Foreign key - Address
last_update	timestamp without time zone	Date of the last update