



Rockbuster Data Dictionary

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Task 3.10_Step 3

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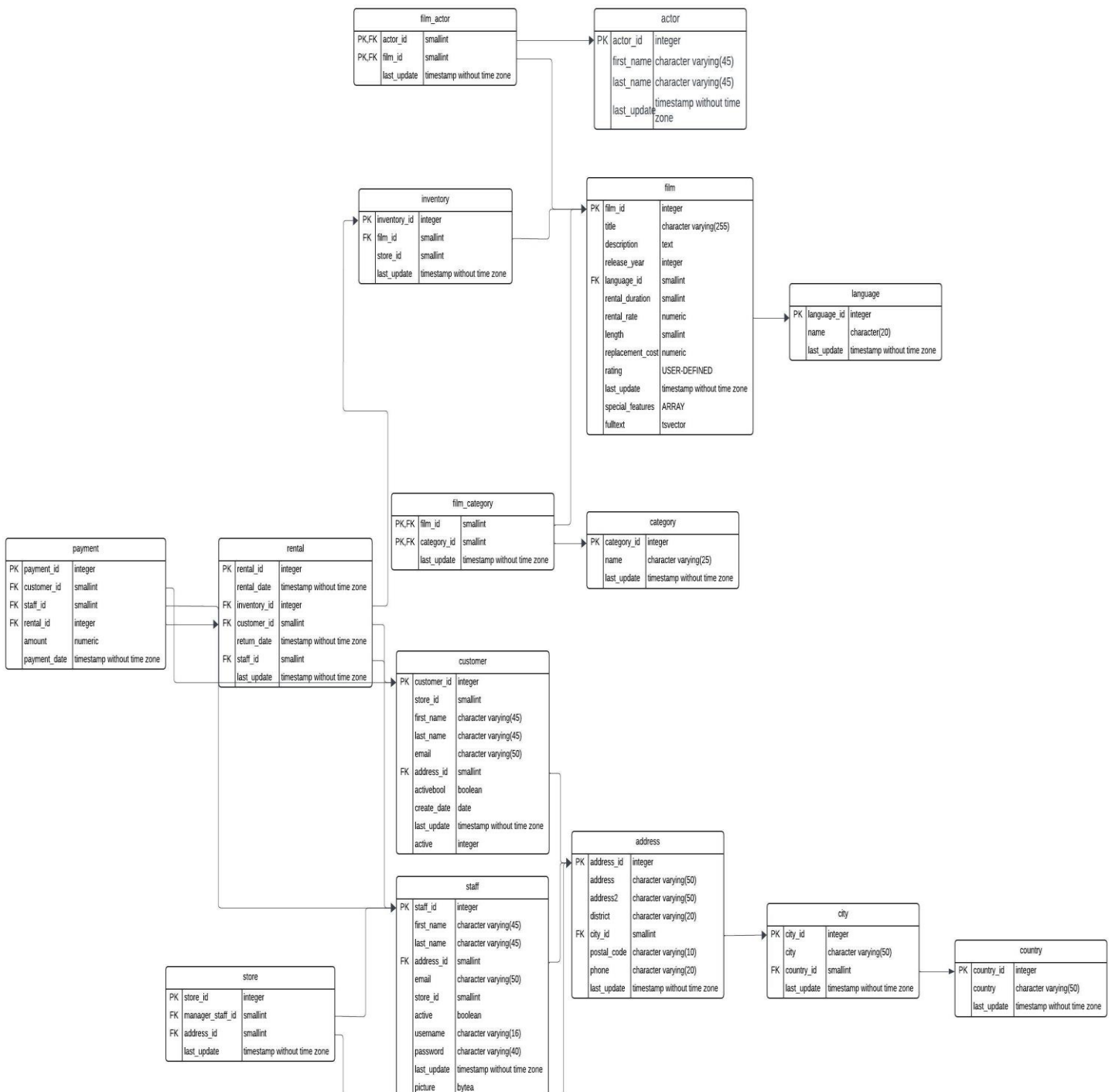
Rockbuster

This document serves as a data dictionary for the Rockbuster database, detailing structures such as tables and relationships to assist with data management and querying - PostgreSQL.

Database Schema Overview

The Rockbuster database is designed to manage and store information related to a video rental business. It includes details about films, actors, inventory, rentals, and payments among other aspects.

Entity Relationship Diagram (ERD)



Actor Table

**Actor Table -
Columns it links to**
None

**Actor Table -
Columns it links
from**
Film_Actor Table

**Actor Table -
Unique keys**
actor_id

Column	Data Type	Description
actor_id	integer	Primary key, unique ID for each actor
first_name	character varying(45)	Actor's first name
last_name	character varying(45)	Actor's last name
last_update	timestamp without time zone	Timestamp of the last update to the actor record

Address Table

**Address Table -
Columns it links to**
City Table

**Address Table -
Columns it links
from**

Customer Table

Staff Table

Store Table

**Address Table -
Unique keys**
address_id

Column	Data Type	Description
address_id	integer	Primary key, unique ID for each address
address	character varying(50)	First line of the address
address2	character varying(50)	Second line of the address (optional)
district	character varying(20)	District or area of the address
city_id	smallint	Foreign key linking to the city table
postal_code	character varying(10)	Postal code for the address
phone	character varying(20)	Contact phone number for the address
last_update	timestamp without time zone	Timestamp of the last update to the address record

Category Table

**Category Table -
Columns it links
to**
None

**Category Table -
Columns it links
from**
Film_Category
Table

**Category Table -
Unique keys**
category_id

Column	Data Type	Description
category_id	integer	Primary key, unique ID for each category
name	character varying(25)	Name of the category
last_update	timestamp without time zone	Timestamp of the last update to the category record

City Table

**City Table -
Columns it links to**
Country Table

**City Table -
Columns it links
from**
Address Table

**City Table -
Unique keys**
city_id

Column	Data Type	Description
city_id	integer	Primary key, unique ID for each city
city	character varying(50)	Name of the city
country_id	smallint	Foreign key linking to the country table
last_update	timestamp without time zone	Timestamp of the last update to the city record

Country Table

**Country Table -
Columns it links to**
None

**Country Table -
Columns it links
from**
City Table

**Country Table -
Unique keys**
country_id

Column	Data Type	Description
country_id	integer	Primary key, unique ID for each country
country	character varying(50)	Name of the country
last_update	timestamp without time zone	Timestamp of the last update to the country record

Customer Table

**Customer Table -
Columns it links to**
Store Table

Address Table

**Customer Table -
Columns it links
from**

Rental Table

Payment Table

**Customer Table -
Unique keys**
customer_id

Column	Data Type	Description
customer_id	smallint	Primary key, unique ID for each customer
store_id	smallint	Foreign key linking to the store table
first_name	character varying(45)	Customer's first name
last_name	character varying(45)	Customer's last name
email	character varying(50)	Customer's email address
address_id	smallint	Foreign key linking to the address table
activebool	boolean	Boolean flag for active status
create_date	date	Date when the customer was created
last_update	timestamp without time zone	Timestamp of the last update to the customer record
active	integer	Numeric flag for active status (detailed)

Film Table

**Film Table -
Columns it links to**
Language Table

**Film Table -
Columns it links
from**
Film_Actor Table

Film_Category
Table

Inventory Table

**Film Table -
Unique keys**
film_id

Column	Data Type	Description
film_id	integer	Primary key, unique ID for each film
title	character varying(255)	Title of the film
description	text	Description of the film
release_year	integer	Year the film was released
language_id	smallint	Foreign key linking to the language table
rental_duration	smallint	Duration in days the film can be rented
rental_rate	numeric	Rental cost
length	smallint	Duration of the film in minutes
replacement_cost	numeric	Cost to replace the film
rating	user-defined	Film rating (PG, R, etc.)
last_update	timestamp without time zone	Timestamp of the last update to the film record
special_features	ARRAY	Array of special features of the film
fulltext	tsvector	Full text search vector for the film

Film_Actor Table

**Film_Actor Table -
Columns it links to**
Actor Table

Film Table

**Film_Actor Table -
Columns it links
from**

None

**Film_Actor Table -
Unique keys**

actor_id

film_id

Column	Data Type	Description
actor_id	integer	Foreign key linking to the actor table
film_id	integer	Foreign key linking to the film table
last_update	timestamp without time zone	Timestamp of the last update to the film_actor record

Film_Category Table

**Film_Category Table -
Columns it links to**
Film Table

Category Table

**Film_Category Table -
Columns it links from**
None

**Film_Category Table -
Unique keys**
film_id
category_id

Column	Data Type	Description
film_id	integer	Foreign key linking to the film table
category_id	integer	Foreign key linking to the category table
last_update	timestamp without time zone	Timestamp of the last update to the film_category record

Inventory Table

**Inventory Table -
Columns it links to**
Film Table

Store Table

**Inventory Table -
Columns it links
from**

Rental Table

**Inventory Table -
Unique keys**
inventory_id

Column	Data Type	Description
inventory_id	integer	Primary key, unique ID for each inventory item
film_id	smallint	Foreign key linking to the film table
store_id	smallint	Foreign key linking to the store table
last_update	timestamp without time zone	Timestamp of the last update to the inventory record

Language Table

Language Table - Columns it links to

None

Language Table - Columns it links from

Film Table

Language Table - Unique keys

language_id

Column	Data Type	Description
language_id	integer	Primary key, unique ID for each language
name	character(20)	Name of the language
last_update	timestamp without time zone	Timestamp of the last update to the language record

Payment Table

**Payment Table -
Columns it links to**

Customer Table

Staff Table

**Payment Table -
Columns it links
from**

None

**Payment Table -
Unique keys**
payment_id

Column	Data Type	Description
payment_id	integer	Primary key, unique ID for each payment
customer_id	smallint	Foreign key linking to the customer table
staff_id	smallint	Foreign key linking to the staff table
rental_id	integer	Foreign key linking to the rental table
amount	numeric	Amount of the payment
payment_date	timestamp without time zone	Date and time the payment was made

Rental Table

**Rental Table -
Columns it links to**
Inventory Table
Customer Table
Staff Table

**Rental Table -
Columns it links
from**
Payment Table

**Rental Table -
Unique keys**
rental_id

Column	Data Type	Description
rental_id	integer	Primary key, unique ID for each rental
rental_date	timestamp without time zone	Date and time the rental began
inventory_id	integer	Foreign key linking to the inventory table
customer_id	smallint	Foreign key linking to the customer table
return_date	timestamp without time zone	Date and time the item was returned
staff_id	smallint	Foreign key linking to the staff table
last_update	timestamp without time zone	Timestamp of the last update to the rental record

Staff Table

**Staff Table -
Columns it links to**
Address Table

Store Table

**Staff Table -
Columns it links
from**

Rental Table

Payment Table

**Staff Table - Unique
keys**

staff_id

Column	Data Type	Description
staff_id	smallint	Primary key, unique ID for each staff member
first_name	character varying(45)	Staff member's first name
last_name	character varying(45)	Staff member's last name
address_id	smallint	Foreign key linking to the address table
email	character varying(50)	Staff member's email address
store_id	smallint	Foreign key linking to the store table
active	boolean	Boolean flag for active status
username	character varying(16)	Username for system login
password	character varying(40)	Hashed password for system login
last_update	timestamp without time zone	Timestamp of the last update to the staff record
picture	bytea	Binary data for the staff member's picture (optional)

Store Table

**Store Table -
Columns it links to**
Staff Table

Address Table

**Store Table -
Columns it links
from**

Inventory Table

Customer Table

**Store Table -
Unique keys**
store_id

Column	Data Type	Description
store_id	integer	Primary key, unique ID for each store
manager_staff_id	smallint	Foreign key linking to the staff table (store manager)
address_id	smallint	Foreign key linking to the address table
last_update	timestamp without time zone	Timestamp of the last update to the store record

