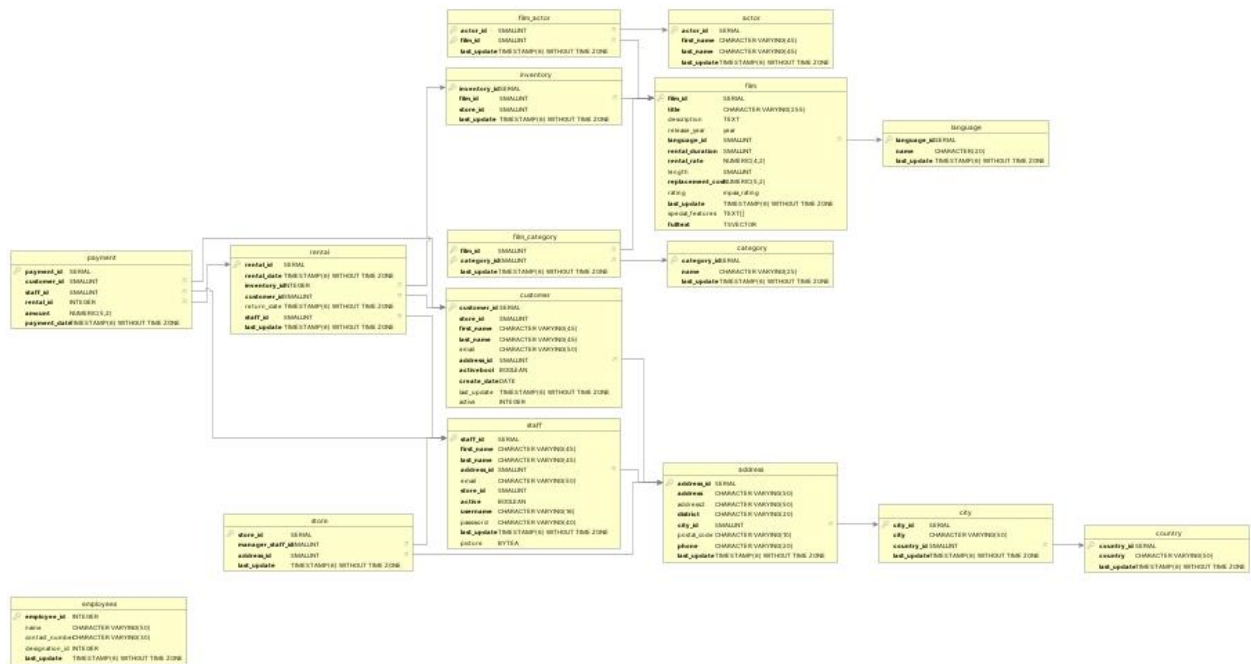# Rockbuster
DATA DICTIONARY

Marzena Wodzisz

Task 3.10 Step 3

Table of Contents

Overview

The Rockbuster database, designed for managing and storing business information on video rental company Rockbuster, is a relational database using a snowflake schema in PostgreSQL. It includes details about films, actors, inventory, rentals, payments, and more. The schema is structured with core fact tables like rental and payment on the leftmost side, encircled by dimension tables such as inventory and customer, which are further surrounded by sub-dimension tables. This ensures efficient data management and querying.

Entity Relation Diagram (ERD)

Fact Tables

Payment

Columns	Data Type	Description
🔑 payment_id	SERIAL	Unique identifier for each payment
customer_id	SMALLINT	Foreign key referencing the customer
staff_id	SMALLINT	Foreign key referencing the staff
rental_id	INTEGER	Foreign key referencing the rental
amount	NUMERIC(5,2)	Amount paid
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of payment

Payment Links

Links To	Links From
Rental, Customer, Staff	N/A

Rental

Columns	Data Type	Description
🔑 rental_id	SERIAL	Unique identifier for each rental
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the rental
inventory_id	INTEGER	Foreign key referencing the inventory
customer_id	SMALLINT	Foreign key referencing the customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date and time of the return
staff_id	SMALLINT	Foreign key referencing the staff
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Rental Links

Links To	Links From
Inventory, Customer, Staff	Payment

Dimension Tables

Inventory

Columns	Data Type	Description
🔑 inventory_id	SERIAL	Unique identifier for each inventory item
film_id	SMALLINT	Foreign key referencing the film
store_id	SMALLINT	Foreign key referencing the store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Inventory Links

Links To	Links From
Film	Rental

Film_category

Columns	Data Type	Description
🔑 film_id	SMALLINT	Foreign key referencing the film
🔑 category_id	SMALLINT	Foreign key referencing the category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Film_category Links

Links To	Links From
Category, Film	N/A

Customer

Columns	Data Type	Description
🔑 customer_id	SERIAL	Unique identifier for each customer
store_id	SMALLINT	Foreign key referencing the 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	Foreign key referencing the address
activebool	BOOLEAN	Active or not
create_date	DATE	Date the customer was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp
active	INTEGER	Indicates if the customer is active

Customer Links

Links To	Links From
Address	Payment, Rental

Staff

Columns	Data Type	Description
🔑 staff_id	SERIAL	Unique identifier for each staff member
first_name	CHARACTER VARYING(45)	First name of the staff member
last_name	CHARACTER VARYING(45)	Last name of the staff member
address_id	SMALLINT	Foreign key referencing the address
email	CHARACTER VARYING(50)	Email address of the staff member
store_id	SMALLINT	Foreign key referencing the store
active	BOOLEAN	Indicates if the staff member is active
username	CHARACTER VARYING(16)	Username of the staff member
password	CHARACTER VARYING(40)	Password of the staff member
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp
picture	BYTEA	Photo of the staff member

Staff Links

Links To	Links From
Address	Payment, Store, Rental

Store

Columns	Data Type	Description
🔑 store_id	SERIAL	Unique identifier for each store
manager_staff_id	SMALLINT	Foreign key referencing the staff
address_id	SMALLINT	Foreign key referencing the address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Store Links

Links To	Links From
Staff, Address	N/A

Address

Columns	Data Type	Description
🔑 address_id	SERIAL	Unique identifier for each address
address	CHARACTER VARYING(50)	Street address
address2	CHARACTER VARYING(50)	Additional address information
district	CHARACTER VARYING(20)	District or region
city_id	SMALLINT	Foreign key referencing the city
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp

Address Links

Links To	Links From
City	Staff, Customer, Store

Category

Columns	Data Type	Description
🔑 category_id	SERIAL	Unique identifier for each category
name	CHARACTER VARYING(25)	Name of the category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp

Category Links

Links To	Links From
N/A	Film_Category

Actor

Columns	Data Type	Description
🔑 actor_id	SERIAL	Unique identifier for each actor
first_name	CHARACTER VARYING(45)	First name of the actor
last_name	CHARACTER VARYING(45)	Last name of the actor
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Actor Links

Links To	Links From
N/A	Film_actor

Film

Columns	Data Type	Description
🔑 film_id	SERIAL	Unique identifier for each film
title	CHARACTER VARYING(25)	Title of the film
description	TEXT	Description of the film
release_year	Year	Release year of the film
language_id	SMALLINT	Foreign key referencing the language
rental_duration	SMALLINT	Rental duration in days
rental_rate	NUMERIC(4,2)	Rental price per day
length	SMALLINT	Length of the film in minutes
replacement_cost	NUMERIC(5,2)	Replacement cost of the film
rating	Mpaa_rating	Rating of the film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp
special_features	TEXT[]	Special features of the film
fulltext	TSVECTOR	Text of the film

Film Links

Links To	Links From
Language	Film_category, Film_actor, Inventory

Film_actor

Columns	Data Type	Description
🔑 actor_id	SERIAL	Unique identifier for each actor
🔑 film_id	SMALLINT	Unique identifier for each film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update time stamp

Film_actor Links

Links To	Links From
Actor	N/A

Language

Columns	Data Type	Description
🔑 language_id	SERIAL	Unique identifier for each language
name	CHARACTER(20)	Language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp

Language Links

Links To	Links From
N/A	Film

City

Columns	Data Type	Description
🔑 city_id	SERIAL	Unique identifier for each city
city	CHARACTER VARYING(50)	Name of the city
country_id	SMALLINT	Foreign key referencing the country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp

City Links

Links To	Links From
Country	Address

Country

Columns	Data Type	Description
🔑 country_id	SERIAL	Unique identifier for each country
country	CHARACTER VARYING(50)	Name of the country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update timestamp

Country Links

Links To	Links From
N/A	City