Rockbuster's Data Dictionary

By Dulaj Weerasinghe
Task 3.10

Contents

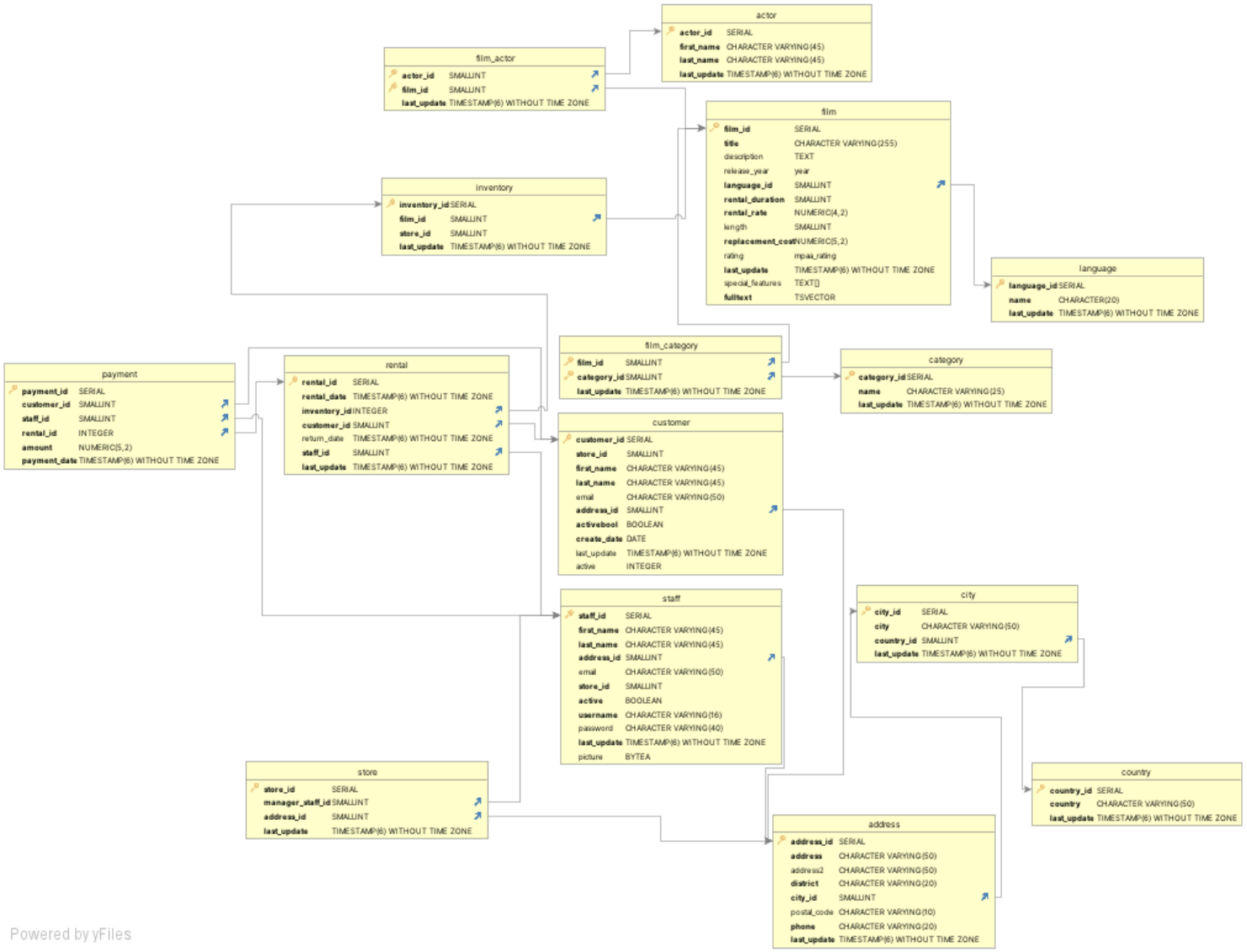
1. INTRODUCTION

Rockbuster Stealth LLC (Rockbuster) is a movie rental company that used to have branches all over the world. This is the data dictionary for Rockbuster Stealth LLC's SQL database. This work provides a complete guide to the structure, organisation, and meaning of data in the Rockbuster SQL database.

It provides a centralised source of metadata for the Rockbuster SQL database's different tables, columns, relationships, constraints, and database objects, allowing database administrators, developers, and users to manage, analyse, and interpret data more easily. Also, to increase data quality, consistency, and ease of access to data, as well as to empower stakeholders to make educated decisions and effectively use the Rockbuster SQL database.

2. ENTITY RELATIONSHIP DIAGRAM (ERD) OF ROCKBUSTER SQL DATABASE

This ERD represents the relationships between entities in the Rockbuster SQL database. It gives a clear picture of the database's structure and organisation by displaying how entities are linked to one another using various sorts of relationships such as one-to-one, one-to-many, and many-to-many.



3. FACT TABLES

3.1 Payment

Column	Data type	Description
Payment_id	SERIAL	Number assigned for payment
customer _id	SMALLINT	Customer identification number
Staff_id	SMALLINT	Staff identification number
rental_id	INTEGER	Rental identification number
amount	NUMERIC (5,2)	Payment amount
payment_date	TIMESTAMP (6) WITHOUT TIME ZONE	Date of the payment

3.2 Rental

Column	Data type	Description
rental_id	SERIAL	Rental identification number
rental_date	TIMESTAMP (6) WITHOUR TIME ZONE	Date of the rental made
ineventory_id	INTEGER	Inventory identification number
customer _id	SMALLINT	Customer identification number
return_date	TIMESTAMP (6) WITHOUR TIME ZONE	Date of the rental returned
staff_id	SMALLINT	Staff identification number
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4. DIMENSIONAL TABLES

4.1 Film

Column	Data type	Description
film_id	SERIAL	Identification number of the film
title	CHARACTER VARYING (255)	Title of the film
description	TEXT	Film description
release_year	YEAR	Release year of the movie
language_id	SMALLINT	Language identification number
rental_duration	SMALLINT	Duration of the rental
rental_rate	NUMERIC (4,2)	Amount charged for rental
length	SMALLINT	Length of the movie
replacement_cost	NUMERIC (5,2)	Replacement cost of the movie
rating	MPAA_RATING	Rating of the movie
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made
special_features	TEXT []	Special features of the movie
fulltext	TSVECTOR	Keywords related to the movie

4.2 Category

Column	Data type	Description
category_id	SERIAL	Identification number of the category
name	CHARACTER VARYING (25)	Name of the category
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.3 Actor

Column	Data type	Description
actor_id	SERIAL	Identification number of the 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) WITHOUR TIME ZONE	Date of last update made

4.4 Film Actor

Column	Data type	Description
actor_id	SMALLINT	Identification number of the actor
film_id	SMALLINT	Identification number of the film
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.5 Category

Column	Data type	Description
category_id	SERIAL	Identification number of the category
name	CHARACTER VARYING (25)	Name of the category
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.6 Film Category

Column	Data type	Description
Film_id	SMALLINT	Identification number of the film
category_id	SMALLINT	Identification number of the category
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.7 Language

Column	Data type	Description
language_id	SERIAL	Identification number of the language
name	CHARACTER (20)	Name of the language
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.8 Inventory

Column	Data type	Description
inventory_id	SERIAL	Inventory identification number
film_id	SMALLINT	Identification number of the film
store_id	SMALLINT	Store identification number
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.9 Customer

Column	Data type	Description
customer_id	SERIAL	Identification number of the customer
store_id	SMALLINT	Store identification number
first_name	CHARACTER VARYING (45)	First name of the customer
last_name	CHARACTER VARYING (45)	The last name of the customer
email	CHARACTER VARYING (50)	email address of the customer
address_id	SMALLINT	Identification number of the address
activebool	BOOLEAN	Active true or false
create_date	DATE	Date of customer created
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made
active	INTEGER	Active status of the account

4.10 Store

Column	Data type	Description
store_id	SERIAL	Store identification number
manager_staff_id	SMALLINT	Identification number of the store manager
address_id	SMALLINT	Identification number of the address
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.11 Staff

Column	Data type	Description
staff_id	SERIAL	Staff identification number
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	Identification number of the address
email	CHARACTER VARYING (45)	email address of the staff member
store_id	SMALLINT	Store identification number
active	BOOLEAN	Active true or false
user_name	CHARACTER VARYING (16)	Staff member username
password	CHARACTER VARYING (40)	staff member account password
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made
picture	BYTEA	Picture of staff member

4.12 Address

Column	Data type	Description
address_id	SERIAL	Identification number of the address
address	CHARACTER VARYING (50)	Address
address2	CHARACTER VARYING (50)	Second address
district	CHARACTER VARYING (20)	District related to address

4.13 City

Column	Data type	Description
city_id	SERIAL	Identification number of the city
city	CHARACTER VARYING (50)	Name of the city
country_id	SMALLINT	Identification number of the country
last_update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made

4.14 Country

Column	Data type	Description
country_id	SERIAL	Identification number of the country
country	CHARACTER VARYING (50)	Name of the country
last-update	TIMESTAMP (6) WITHOUR TIME ZONE	Date of last update made