ROCKBUSTER

Data Dictionary
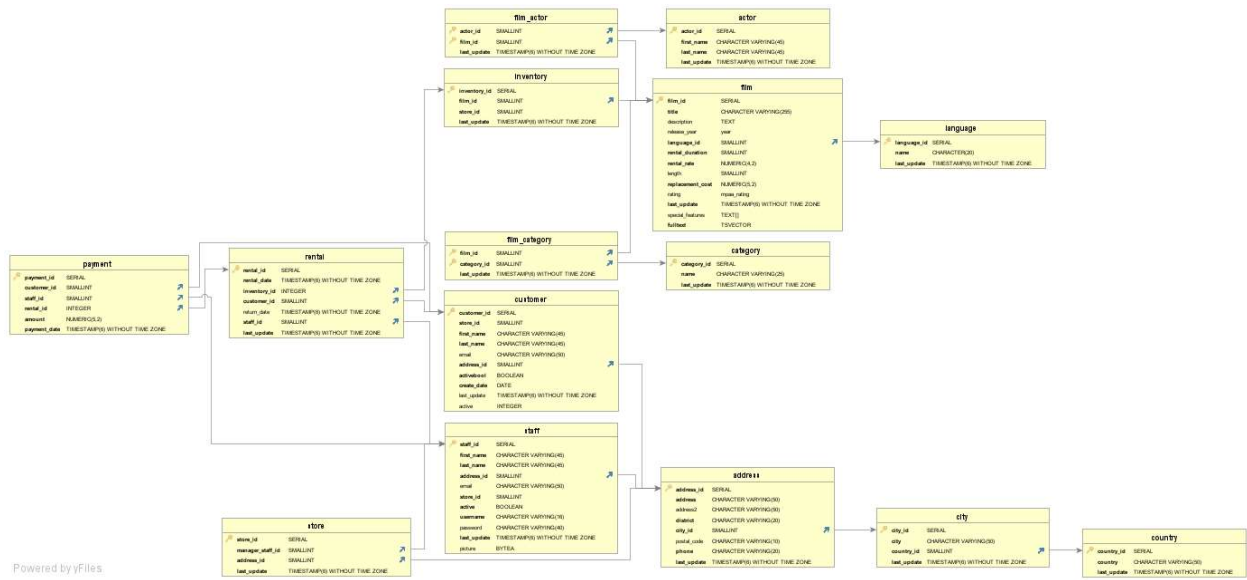
28/06/2021

Table of Contents

film_actor

actor_id	SMALLINT
film_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

actor

actor_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

inventory

inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film

film_id	SERIAL
title	CHARACTER VARYING(255)
description	TEXT
release_year	year
language_id	SMALLINT
rental_duration	SMALLINT
rental_rate	NUMERIC(4,2)
length	SMALLINT
replacement_cost	NUMERIC(5,2)
rating	mpaa_rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
special_features	TEXT[]
fulltext	TSVECTOR

language

language_id	SERIAL
name	CHARACTER(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film_category

film_id	SMALLINT
category_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

category

category_id	SERIAL
name	CHARACTER VARYING(25)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

payment

payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE

rental

rental_id	SERIAL
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id	INTEGER
customer_id	SMALLINT
return_date	TIMESTAMP(6) WITHOUT TIME ZONE
staff_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

customer

customer_id	SERIAL
store_id	SMALLINT
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
email	CHARACTER VARYING(50)
address_id	SMALLINT
activebool	BOOLEAN
create_date	DATE
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
active	INTEGER

staff

staff_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
address_id	SMALLINT
email	CHARACTER VARYING(50)
store_id	SMALLINT
active	BOOLEAN
username	CHARACTER VARYING(16)
password	CHARACTER VARYING(40)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
picture	BYTEA

address

address_id	SERIAL
address	CHARACTER VARYING(50)
address2	CHARACTER VARYING(50)
district	CHARACTER VARYING(20)
city_id	SMALLINT
postal_code	CHARACTER VARYING(10)
phone	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

city

city_id	SERIAL
city	CHARACTER VARYING(50)
country_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country

country_id	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

store

store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

Fact Table

	COLUMN NAME	DATA TYPE	DESCRIPTION
RENTAL TABLE			
🔑	Rental_id	SERIAL	Primary key to rental table; and unique identifier of each movie rented.
	Rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp
FK	Inventory_id	INTEGER	Foreign key for inventory table; and unique identifier of inventory items.
FK	Customer_id	SMALLINT	Foreign key for customer table; and unique identifier of each customer.
	Return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp
FK	Staff_id		
	Last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

Dimensions Table

	COLUMN NAME	DATA TYPE	DESCRIPTION
PAYMENT TABLE			
🔑	Payment_id	SERIAL	Primary key to payment table; and unique identifier of each payment.
FK	Customer_id	SMALLINT	Foreign key for customer table; and to uniquely identify a customer.
FK	Staff_id	SMALLINT	Foreign key for staff table; and unique identifier of each of staff members.
FK	Rental_id	INTEGER	Foreign key for rental table; and unique identifier of each of movie rented.
	Amount	NUMERIC(5, 2)	Amount of money paid per transaction.
	Payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

INVENTORY TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	inventory_id	INTEGER	Primary key to inventory table; and unique identifier of inventory items.
FK	film_id	SMALLINT	Foreign key for film table; and unique identifier of each film.
FK	store_id	SMALLINT	Foreign key for store table; and to unique identifier of each store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

FILM-ACTOR TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
FK	actor_id	SMALLINT	Foreign key for actor table; and unique identifier of actors.
FK	film_id	SMALLINT	Foreign key for film table; and unique identifier of films.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

ACTOR TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	actor_id	INTEGER	Primary key to actor table; and unique identifier of actors in films.
	first_name	CHARACTER VARYING (45)	First name of character.
	last_name	CHARACTER VARYING (45)	Last name of character.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

FILM TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	film_id	INTEGER	Primary key to the film table; and unique identifier of each movie.
	title	CHARACTER VARYING (255)	Title of film.
	description	TEXT	Description of what film is about.
	release_year	INTEGER	Release year of film.
FK	language_id	SMALLINT	Foreign key for language table; and unique identifier of language of film.
	rental_duration	SMALLINT	Duration time of renting a film.
	rental_rate	NUMERIC (4,2)	Cost of renting a film.
	length	SMALLINT	Duration of renting a film.
	replacement_cost	NUMERIC (5,2)	Cost of replacing broken or lost films.
	rating	Mpaa_rating	Parent film rating system as a guide to parents.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp
	special_features	TEXT	Special features accompanying films such as 'trailers', and 'behind the scenes'.
	fulltext	Tsvector	To cache lexemes (and keep updated) to improve the speed of full-text searches.

LANGUAGE TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	language_id	SERIAL	Primary key to language table; and unique identifier of language.
	Name	CHARACTER (20)	Name of language in film.
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Timestamp

FILM-CATEGORY TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
FK	film_id	SMALLINT	Foreign key to film table; and unique identifier of each film.
FK	category_id	SMALLINT	Foreign key for category table; and unique identifier of categories in each film.
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Timestamp

CATEGORY TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	category_id	INTEGER	Primary key to category table; and unique identifier of film categories.
	name	CHARACTER VARYING (25)	Name of category.
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Timestamp

CUSTOMER TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	customer_id	INTEGER	Primary key to customer table; and unique identifier of each customer.
FK	store_id	SMALLINT	Foreign key store table; and unique identifier of each store.
	first_name	CHARACTER VARYING (45)	First name of customer.
	last_name	CHARACTER VARYING (45)	Last name of customer.
	email	CHARACTER VARYING (50)	Email of customer.
FK	address_id	SMALLINT	Foreign key for address table; and unique identifier of address of each rental store.
	activebool	BOOLEAN	True or False
	create_date	Date	Date account for customer was created.

	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp
	active	INTEGER	1 = active customer; 0 = inactive customer

STORE TABLE			
	COLUMN NAME	**DATA TYPE**	**DESCRIPTION**
🔑	store_id	INTEGER	Primary key to store table; and unique identifier of store from which movie rented.
	manager_staff_id	SMALLINT	Unique identifier of manager of each store.
FK	address_id	SMALLINT	Foreign key for address table; and unique identifier of address of each store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

STAFF TABLE			
	COLUMN NAME	**DATA TYPE**	**DESCRIPTION**
🔑	staff_id	INTEGER	Primary key to staff table; and unique identifier of each staff member.
	first_name	CHARACTER VARYING (45)	First name of customer.
	last_name	CHARACTER VARYING (45)	Last name of customer.
FK	address_id	SMALLINT	Foreign key for address table; and unique identifier of address of each rental store where member is located.
	email	CHARACTER VARYING (50)	Email of customer.
FK	store_id	SMALLINT	Foreign key for store table; and unique identifier for each store where member is located.
	active	BOOLEAN	True or False
	username	CHARACTER VARYING (16)	Username of staff member.
	password	CHARACTER VARYING (40)	Password related to username.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

ADDRESS TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	address_id	INTEGER	Primary key to address table; and unique identifier of address of each store.
	address	CHARACTER VARYING (50)	Address of each store.
	district	CHARACTER VARYING (20)	District of each store.
FK	city_id	CHARACTER VARYING (45)	Foreign key for city table; and unique identifier of city of each store.
	postal code	CHARACTER VARYING (10)	Postal code of each store.
	phone	CHARACTER VARYING (20)	Phone number of each store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

CITY TABLE

	COLUMN NAME	DATA TYPE	DESCRIPTION
🔑	city_id	INTEGER	Primary key to city table; unique identifier for each city where address is indicated.
	city	CHARACTER VARYING (45)	City of each store.
FK	country_id	SMALLINT	Foreign key for country table; unique identifier for country of city and address of each store.
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp

For analysis and visualizations:

https://public.tableau.com/app/profile/heidi.jansen.van.rensburg/viz/Task10RockbusterFilmRentalsSQLResults/Story3