Rockbuster Data dictionary

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Entity Relationship Diagram (ERD) :
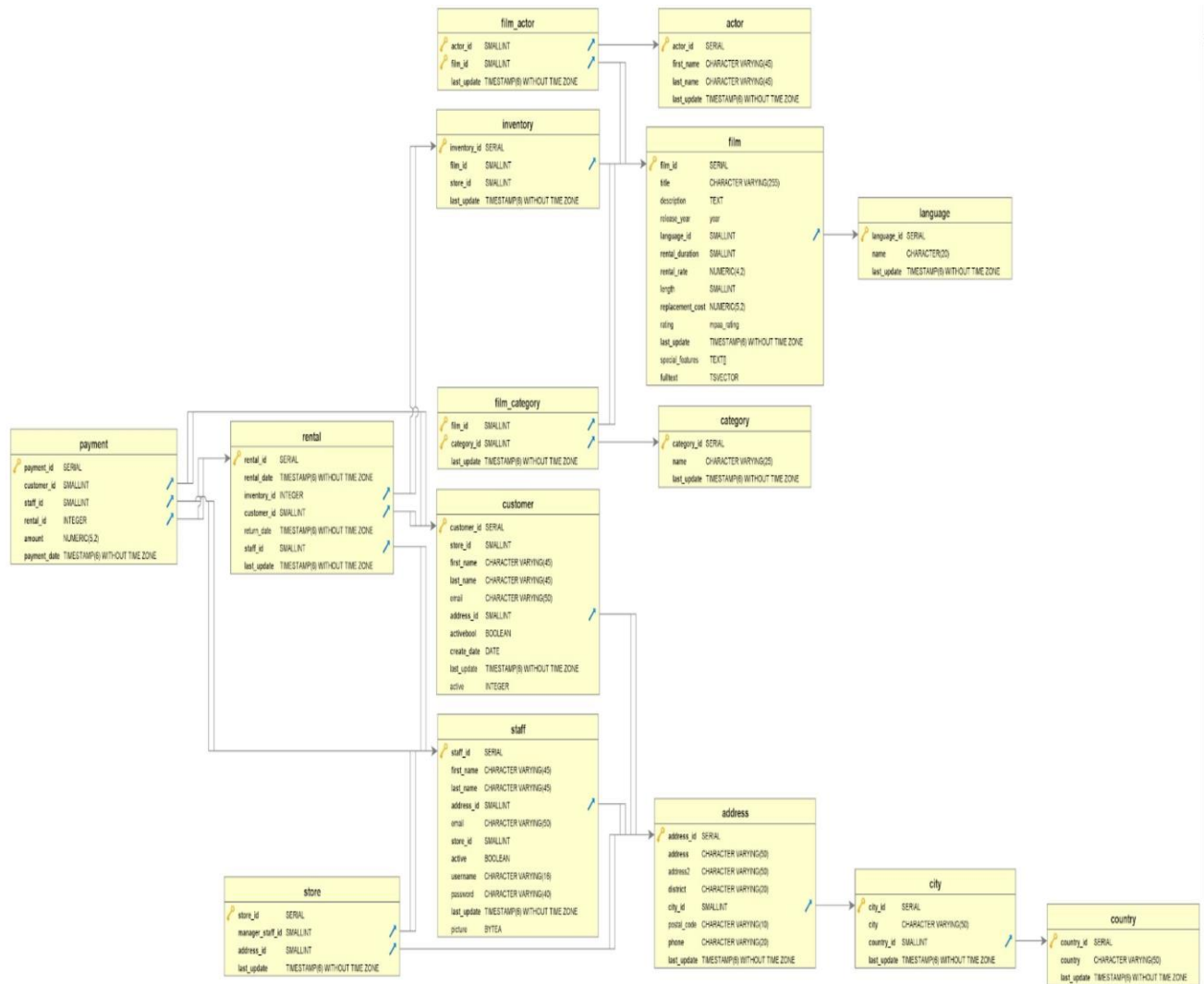
Fact Tables :

Payment

Column	Data Type	Description	Column linked to	Column linked from
Payment_id 🔑	SERIAL	**Primary key.** Unique identifier of payment transaction		

customer_id 🔑	SMALLINT	**Foreign key**. unique identifier of customer	customer. customer_id	rental. customer_id
staff_id 🔑	SMALLINT	**Foreign key**. unique identifier of staff who handled the transaction	staff.staff_id	rental.staff_id
rental_id 🔑	INTEGER	**Foreign key**. unique identifier of rental sale	rental.rental_id	
amount	NUMERIC(5,2)	total amount of sale		
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	date and time payment was received/confirmed		

Rental

Column	Data Type	Description	Column linked to	Column linked from
rental_id 🔑	SERIAL	**Primary Key.** Unique identifier of rental sale		payment. rental_id
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	date and time unit was rented out		
inventory_id	INTEGER	unique inventory identifier for rental unit	inventory. inventory_id	
customer_id 🔑	SMALLINT	**Foreign key**. unique identifier of customer	customer. customer_id	payment. customer_id
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	date and time unit was returned		
staff_id 🔑	SMALLINT	**Foreign key**. unique identifier for staff who handled the transaction	staff.staff_id	payment. staff_id

2.2 Dimension Tables:

Film_actor

Column	Data Type	Description	Column linked to	Column linked from

actor_id	SMALLINT	**Primary key.** Unique identifier of actor	actor.actor_id	
film_id	SMALLINT	**Primary key.** Unique identifier of film	film.film_id	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Inventory

Column	Data Type	Description	Column linked to	Column linked from
inventory_id	SERIAL	**Primary key.** Unique identifier of inventory item	rental. inventory_id	
film_id	SMALLINT	**Foreign key.** unique identifier of film	film.film_id	
store_id	SMALLINT	unique store identifier	store.store_id	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Film_category

Column	Data Type	Description	Column linked to	Column linked from
film_id	SMALLINT	**Primary key.** Unique film identifier	film.film_id	
category_id	SMALLINT	unique identifier of a film category	category. category_id	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Customer

Column	Data Type	Description	Column linked to	Column linked from
customer_id	SERIAL	**Primary Key.** Unique identifier of customer	rental. cusomer_id payment. customer_id	
store_id	SMALLINT	unique store identifier		

first_name	CHARACTER VARYING(45)	customer first name		
last_name	CHARACTER VARYING(45)	customer last name		
email	CHARACTER VARYING(50)	customer email address		
address_id 🔑	SMALLINT	**Foreign key.** unique identifier for customer address		address. address_id
activebool	BOOLEAN	active or not (true/false)		
create_date	DATE	date customer was added		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		
active	INTEGER	active or not (binary)		

Staff

Column	Data Type	Description	Column linked to	Column linked from
staff_id 🔑	SERIAL	**Primary key.** Unique identifier of staff		
first_name	CHARACTER VARYING(45)	staff first name		
last_name	CHARACTER VARYING(45)	staff last name		
address_id 🔑	SMALLINT	**Foreign key**. unique identifier for staff address	address. address_id	
email	CHARACTER VARYING(50)	staff email address		
store_id	SMALLINT	unique store identifier	store.store_id	
active	BOOLEAN	active or not (true/false)	rental.staff_id, payment. staff_id	
username	CHARACTER VARYING(50)	staff username		
password	CHARACTER VARYING(40)	staff password		
last_update	TIMESTAMP(6) WITHOUT TIME ZOND	date and time of last record update		
picture	BYTEA	staff photo		

Actor

Column	Data Type	Description	Column linked to	Column linked from
actor_id 🔑	SERIAL	**Primary key.** Unique identifier of actor	film_actor. actor_id	
first_name	CHARACTER VARYING(45)	actor first name		
last_name	CHARACTER VARYING(45)	actor last name		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Film

Column	Data Type	Description	Column linked to	Column linked from
film_id 🔑	SERIAL	**Primary key**. Unique identifier of film	film_category. film_id, film_actor. film_id, inventory.film_id	
title	CHARACTER VARYING(255)	title name of film		
description	TEXT	description of film		
release_year	year	year film was released		
language ___id	SMALLINT	unique identifier of language	language. language_id	
rental_duration	SMALLINT	number of days film was rented		
rental_rate	NUMERIC(4,2)	cost of rental per day		
length	SMALLINT	film length (minutes)		
replacement_cost	NUMERIC(5,2)	cost to replacement the film		
rating	mpaa_rating	which age groups can view the film (G, PG, PG-13, ect)		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		
special_featur es	TEXT[]	special features of the film		
fulltext	TVSECTOR	text of the film		

Category

Column	Data Type	Description	Column linked to	Column linked from
category_id 🔑	SERIAL	**Primary Key.** Unique identifier of category	film_category. category_id	
name	CHARACTER VARYING(25)	category name		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Language

Column	Data Type	Description	Column linked to	Column linked from
language_id 🔑	SERIAL	**Primary key.** Unique identifier of language	film.language_id	
name	CHARACTER(20)	language name		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Address

Column	Data Type	Description	Column linked to	Column linked from
address_id 🔑	SERIAL	**Primary Key.** Unique identifier for address	staff.address_id, store. address_id	
address	CHARACTER VARYING(50)	address details		
address2	CHARACTER VARYING(50)	additional address details		
district	CHARACTER VARYING(20)	name of the district		
city_id 🔑	SMALLINT	**Foreign key.** unique identifier of a city	city.city_id	
postal_code	CHARACTER VARYING(10)	postal code details		
phone	CHARACTER VARYING(20)	phone number details		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

City

Column	Data Type	Description	Column linked to	Column linked from
city_id 🔑	SERIAL	**Primary key.** Unique identifier of city	address.city_id	
city	CHARACTER VARYING(50)	city name		
country_id	SMALLINT	unique identifier of city	country.country_id	
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		

Country

Column	Data Type	Description	Column linked to	Column linked from
country_id 🔑	SMALLINT	**Primary key.** Unique identifier of city	city.country_id	
country	CHARACTER VARYING(50)	country name		
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	date and time of last record update		