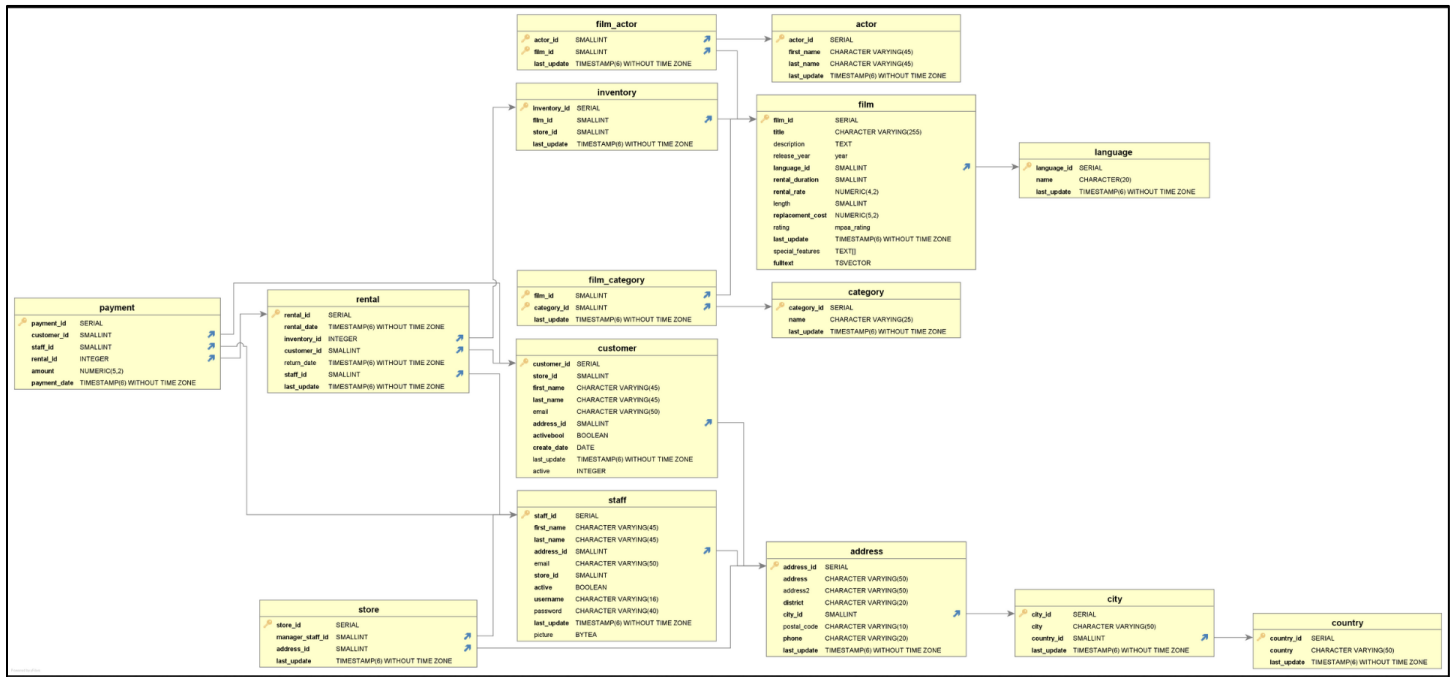


Step 2:



Step 3:

- This is a snowflake schema because the dimension tables are surrounded by subdimension tables.
- Fact Tables

payment		
Columns	Data Type	Description
payment_id	SERIAL	Unique ID of payment
customer_id	SMALLINT	Unique ID of customer
staff_id	SMALLINT	Unique ID of staff
rental_id	INTEGER	Unique ID of rental instance
amount	NUMERIC(5,2)	Total price of rental
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from payment

rental		
Columns	Data Type	Description
rental_id	SERIAL	Unique ID of rental instance
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from rental
inventory_id	INTEGER	Unique ID of inventory
customer_id	SMALLINT	Unique ID of customer
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from return
staff_id	SMALLINT	Unique ID of staff member
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

Dimension Tables

staff		
Columns	Data Type	Description
staff_id	SERIAL	Unique ID of staff member
first_name	CHARACTER VARYING(45)	First name of staff member
last_name	CHARACTER VARYING(45)	Last name of staff member
address_id	SMALLINT	Unique ID of staff member's address
email	CHARACTER VARYING(50)	Email address of staff member
store_id	SMALLINT	Unique ID of store staff member works
active	BOOLEAN	Staff member is active - true or false
username	CHARACTER VARYING(16)	Staff member username
password	CHARACTER VARYING(40)	Staff member password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update
picture	BYTEA	Photo of staff member

film		
Columns	Data Type	Description
film_id	SERIAL	Unique ID of film
title	CHARACTER VARYING(255)	Film title
description	TEXT	Film description
release_year	year	Film release year
language_id	SMALLINT	Unique ID of film language
rental_duration	SMALLINT	Duration of rental in days
rental_rate	NUMERIC(4,2)	Price of rental
length	SMALLINT	Length of film in minutes
replacement_cost	NUMERIC(5,2)	Price to replace film
rating	mpaa_rating	MPAA film rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update
special_features	TEXT[]	Special features included in film rental
fulltext	TSVECTOR	?

customer		
Columns	Data Type	Description
customer_id	SERIAL	Unique ID of customer
store_id	SMALLINT	Unique ID of store
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	Unique ID of customer address
activebool	BOOLEAN	Customer is active - true or false
create_date	DATE	Date customer record was created
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update
active	INTEGER	?

store		
Columns	Data Type	Description
store_id	SERIAL	Unique ID of store
manager_staff_id	SMALLINT	Unique ID of store manager
address_id	SMALLINT	Unique ID of store address
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

actor		
Columns	Data Type	Description
actor_id	SERIAL	Unique ID of actor
first_name	CHARACTER VARYING(45)	Actor first name
last_name	CHARACTER VARYING(45)	Actor last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

address		
Columns	Data Type	Description
address_id	SERIAL	Unique ID of address
address	CHARACTER VARYING(50)	Street address
address2	CHARACTER VARYING(50)	Appartment/suite
district	CHARACTER VARYING(20)	State/district
city_id	SMALLINT	ID number of city
postal_code	CHARACTER VARYING(10)	Postal code
phone	CHARACTER VARYING(20)	Phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

category		
Columns	Data Type	Description
category_id	SERIAL	Unique ID of film category
name	CHARACTER VARYING(25)	Category name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

CITY		
Columns	Data Type	Description
city_id	SERIAL	Unique ID of city
city	CHARACTER VARYING(50)	City name
country_id	SMALLINT	Unique ID of country
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

country		
Columns	Data Type	Description
country_id	SERIAL	Unique ID of country
country	CHARACTER VARYING(50)	Country name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

film_actor		
Columns	Data Type	Description
actor_id	SMALLINT	Unique ID of actor
film_id	SMALLINT	Unique ID of film
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

film_category		
Columns	Data Type	Description
film_id	SMALLINT	Unique ID of film
category_id	SMALLINT	Unique ID of category
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

inventory		
Columns	Data Type	Description
inventory_id	SERIAL	Unique ID of inventory
film_id	SMALLINT	Unique ID of film
store_id	SMALLINT	Unique ID of store
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

language		
Columns	Data Type	Description
language_id	SERIAL	Unique ID of language
name	CHARACTER(20)	Language name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Timestamp from last update

Step 4:

- a. Payment, rental, inventory, film_actor and actor tables.
- b. Inventory, film and language tables.