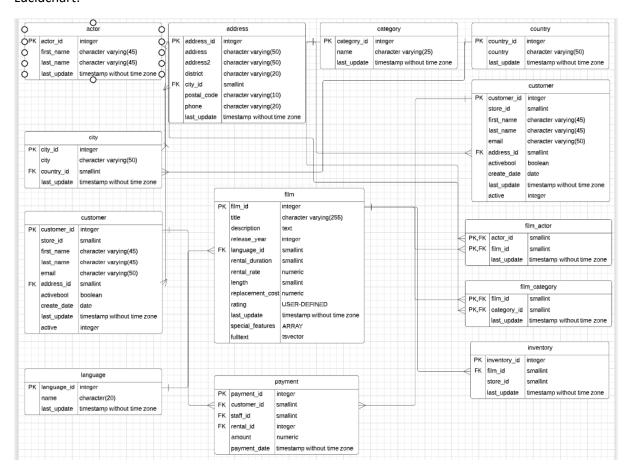
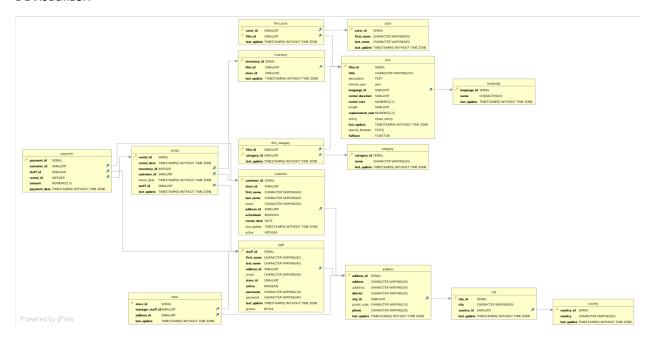
Step 2. Extract the ERD:

Lucidchart:



DBvisualizer:



Step 3. Create the first draft of a data dictionary:

Take a moment to examine your ERD. Does the Rockbuster database have a snowflake schema or a star schema? Write a brief explanation for your answer.

A/ It has a snowflake schema because from the fact table

List all the fact tables and all the dimension tables in the schema. For each table, list every column and its data type, and write a brief description of the column. To get an idea of what this should look like, check out these example fact and dimension tables.

If a column name doesn't tell you enough to write a description, you can also view the tables in pgAdmin 4. The SQL syntax for selecting a table is SELECT * FROM table_name. So SELECT * FROM film would return the film table, for example.

Fact table

	Payment	
Columns	Data type	Description
payment_id	SERIAL	Payme unique identification number
costumer_id	SMALLINT	Unique identication number of the custumer that did the payment
staff_id	SMALLINT	Unique identification number of staff member that did the transaction
rental_id	INTEGER	Unique identification number of each rental transaction
amount	NUMERIC(5,2)	Price paid for the rental
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the payment was issued

Dimension table

	Rental	
Columns	Data type	Description
rental_id	SERIAL	Rental transaction unique identification number
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the rental was made
inventory_id	INTERGER	Unique identification number of the inventory rented
costumer_id	SMALLINT	Costumer unique identification number that did the transaction
return_date	TIMESTAMP(6) WITHOUT TIME ZONE	Date when the movie was returned to the store
staff_id	SMALLINT	Staff member identification number that did the transaction
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Film_category	
Columns	Data type	Description
film_id	SERIAL	Film unique identification number
category_id	CHARACTER VARYING(25)	Movie category identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Category	
Columns	Data type	Description
category_id	SERIAL	Movie category identification number
name	SMALLINT	Category name
last update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Film_actor	
Columns	Data type	Descrption
actor_id	SMALLINT	Actor unique identification number
film_id	SMALLINT	Film unique identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Inventory	
Columns	Data type	Description
inventory_id	SERIAL	Invetory unique identification number
film_id	SMALLINT	Film unique identification number
store_id	SMALLINT	Store unique identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Actor	
Columns	Data type	Description
actor_id	SERIAL	actor unique identification number
first_name	CHARACTER VARYING (45)	Actor first name
last_name	CHARACTER VARYING (45)	Actor last name
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Film	
Columns	Data type	Description
film_id	SERIAL	Film unique identification number
title	CHARACTER VARYING(25)	Film title
description	TEXT	Film short description
release_year	year	Film release year
language_id	SMALLINT	Language unique identification number that the films is dub
rental_duration	SMALLINT	Duration of the rental of the film
rental_rate	NUMERIC(4,2)	How often the film is rented
length	SMALLINT	Lenght of the movie
replacement_cost	NUMERIC(5,2)	Cost of the film to the store
rating	mpaa_rating	Movie rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry
special_feature	TEXT	Any special features in the film
fulltext	TSVECTOR	Keywords associated with film

	Languaje	
Columns	Data type	Description
language_id	SERIAL	Language unique identification number that the films is dub
name	CHARACTER(20)	Name of the language
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Customer	
Columns	Data type	Descripton
customer_id	SERIAL	Customer unique identification number
store_id	SMALLINT	Store unique identification number
first_name	CHARACTER VARYING(45)	Customers first name
last_name	CHARACTER VARYING(45)	Customers last name
email	CHARACTER VARYING(50)	Costumers email
address_id	SMALLINT	Address unique identification number
activebool	BOOLEAN	Wheter the customer is active or not
create_date	DATE	Date that the customer was added to the system
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry
active	INTEGER	Membership status

	Staff	
Columns	Data type	Description
staff_id	SERIAL	Staff member unique identification number
first_name	CHARACTER VARYING(45)	Staff members first name
last_name	CHARACTER VARYING(45)	Staff members last name
address_id	SMALLINT	Staff members address unique identification number
email	CHARACTER VARYING(50)	Staff members email
store_id	SMALLINT	Store unique identification number
active	BOOLEAN	Wheter or not the staff member is active
username	CHARACTER VARYING(16)	Staff members username
password	CHARACTER VARYING(40)	Staff members password
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry
picture	BYTEA	Picture of the staff member

	Store	
Columns	Data type	Description
store_id	SERIAL	Store unique identification number
manager_staff_id	SMALLINT	Staff manager unique identification number
address_id	SMALLINT	Adress unique identification number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	Address	
Columns	Data type	Description
address_id	SERIAL	Address unique identification number
address	CHARACTER VARYING(50)	Store address
address2	CHARACTER VARYING(50)	Secondary store address if applicable
district	CHARACTER VARYING(20)	Store disctrict
city_id	SMALLINT	City unique identification number where the store is located
postal_code	CHARACTER VARYING(10)	Spotal code of the store location
phone	CHARACTER VARYING(20)	Store phone number
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	City	
Columns	Data type	Description
city_id	SERIAL	city unique identification number
city	CHARACTER VARYING(50)	City where the store is located
country_id	SMALLINT	Contry unique identification number where the store is located
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

	County	
Columns	Data type	Description
country_id	SERIAL	Country unique identification number where the store is located
country	CHARACTER VARYING(50)	Country where the store is located
last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Last update of the data entry

Step 4. Find information:

Which actors brought Rockbuster the most revenue?

A/ I would use the film table to check the rental ratio of the movies and check the movies with the highest and what actor is in them

What language are the majority of movies in the collection?

A/ I would us ethe film table and the and the language table to get this information