1 SQL

In this assignment, we want you to answer some questions about a DVD rental store. Your final submission should consist of all the SQL files that give as a result the answer to our questions. Pay attention to details, the query should answer exactly the question and not include any other information. Each answer should have its own ".sql" file and should be written in either PostgreSQL or Snowflake compliant SQL.

Full image available here

The ERD alone should be enough for you to write the queries. However, if you want to test things out, you can download this data here and import it into a local PostgreSQL database. Instructions for loading the data can be found here (Windows), here (macOS), or here (Linux).

The questions are:

1. Which day was the busiest day in terms of rentals and how many rentals were there on that day? Your query should return one single row and one single column with the date in the format "YYYY-MM-DD".

2. Who is the most famous actor/actress in terms of times their movies were rented out? Your query should return the full name of the actor or actress, first name and last name in a single column.

3. What about the most famous in terms of the amount of money brought to the rental from their movies?

4. Let "film.replacement_cost" be the actual cost of buying the movie for the rental shop. Calculate the profit/loss for each movie.

5. What is the revenue for each country for the top 10 most popular movies in terms of overall rentals?

6. What are the most profitable film categories in each country? Your query should return a row for each country and a column should contain the name of the top 3 categories separated by commas.

7. What are the top 3 most common films that customers rent as their first rental?