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:

- 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".
- 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.
- category inventory customer customer_id store_id first_name category_id name last_update last_update last_name email address_id create_date last_update active film_category rental film id rental id category id rental_date inventory_id customer_id return_date staff_id last_update last_update address film address_id film id address title description release_year language_id address2 district city_id postal_code payment * payment_id customer_id staff_id rental_id rental_duration rental_rate length length replacement_cost rating last_update special_features fulltext amount payment_date citv * city_id staff city country_id first_name last update last_name address id email language email store_id active username password last_update * language_id country name last_update * country_id country last_update picture film actor actor store actor_id film_id store_id actor_id first_name last_name last_update manager_staff_id address_id last_update
- 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?