UDACITY

Return to Classroom

Investigate a Relational Database

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Dear Student,

Thank you for this excellent project! Thank you for asking and answering the perfect questions. All of your questions are quite challenging ones, and you solved them perfectly well. You put great effort into both queries and visualizations.

Please add this project to your GitHub profile so that others can see this great project :) (if you do not know how to do it, do not worry, the last project is all about Git).

After this point, you may prefer to practice SQL skills. Here are some good free websites for this purpose:
1) https://pgexercises.com/questions/basic/(You can choose the topic from the Exercise tab.)
2) https://www.postgresqltutorial.com

Congratulations again
You passed this project!

Queries

All SQL queries run without errors and produce the intended results.

Well done! Your queries result exactly match with the charts! Thank you.

Each SQL query needs to include one or more explicit JOINs. The JOIN or JOINs should be necessary to the query.

If a question does not require a JOIN please change the question to be one that does.

The SQL queries use JOINs to query out the data from different tables. You did well in joining tables appropriately.
If you work in data analyst or data science job, you will use JOIN excessively. Therefore it might be a good idea to solve a few practice questions about it: https://pgexercises.com/questions/joins/

Each SQL query needs to include one or more aggregations. This could be a COUNT, AVG, SUM, or other aggregation.

At least 2 of the 4 SQL queries need to include either a subquery OR a CTE.

Perfect! You know how to handle subquery/CTE. If you want to practice this concept, please be sure to solve all questions in the subquery mania. Also, here are some other resources:

1) https://www.w3resource.com/PostgreSQL/postgresql-subqueries.php
2) https://kb.objectrocket.com/postgresql/using-nested-select-in-postgres-sql-804

At least 1 of the 4 queries should use a Window Function.

Window functions are quite challenging, but you managed to use them successfully! If you want to practice more:
1)https://mode.com/sql-tutorial/sql-window-functions/
2) https://www.postgresql.org/docs/9.1/tutorial-window.html

The SQL queries are well formatted and use aliases.

Thank you for well structured queries!

Presentation

Each slide should have a question and an appropriate visualization descriptions to address the question. The slides should be free of significant factual, spelling and grammatical mistakes.

Even though it is not a visualization course, you did an excellent job.

All visualizations should make logical sense and provide accurate analysis based on their query results.

Those are excellent insights. They can yield really impactful business values such as...
Slide 1: Maybe we should remove some Musical categories since they have been rented out lower than the other categories.
Slide 2: Instead of longer animation movies we should by more shorter ones and store them in our inventories.
Slide 3:There is a major decrease in 2006-2, it looks like an outlier and it would be best if you highlight and give some possible reasons behind it. Maybe there is data leak and we should focus on our data gathering.
Slide 4: We might focus on these top costumers, maybe we can do some promotions to them

1. All visualizations include a title and axis labels, have a legend where applicable, and are easily understood.
2. Every visualization should have:
    - chart title
    - x axis title
    - x axis label
    - y axis title
    - y axis labels

Well done!

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