UDACITY

‹ Return to "Programming for Data Science with Python" in the classroom

DISCUSS ON STUDENT HUB

Investigate a Relational Database

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

I quite enjoyed reading your report. Graphs looks amazing. It is quite easy to see you have great sql and visualization skills. Thank you for this amazing work.

You asked this question -->"Please advise whether the query design is optimal for performance. Even if the results are correct, please let me know the solution according to the best practice in the industry. Many thanks!"

You can use such queries in any industry. It will show great performance. There are some rule of thumbs considering query performance, and you meet all specifications:
1-Don’t retrieve more data than necessary
2- Try to not use wildcards at the beginning if possible (LIKE '%..')
3- Try to use subqueries instead of one big query.

Best wishes on your next projects.
Stay Safe!

Queries

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

Nicely done. All queries run successfully. 👏🏽

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 really good in joining tables appropriately.

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

There's an aggregation used in each SQL query as required.

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

it is clear that you know how to handle subquery. If you want to practice this concept, please be sure that you solve all questions in the subquery mania. Also, here are some other resources:
Extra 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.

Good job!

Extra Resources:

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.

Great Job Here!!

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.

Absolutely amazing visualizations. Actually one of the best projects I have ever seen. I have only one minor suggestion.
In the second slide, you mentioned about the peak hours. This is a really interesting analysis. But it will be good if we can include time zone.
The other visualizations are absolutely perfect. Thank you

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

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**

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