UDACITY

Return to Classroom

Music SQL Database

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Dear Student,

You have submitted a good project and adhered to the required formats. We appreciate this. You have shown your creativity and answered some really interesting questions and the presentation was very appropriate for all the slides. It was very high-quality work from your side. **Well done!**

I believe you have now gained good confidence after completing this project and can write any query to answer business problems. Also, your creative mindset would surely help you in finding out the hidden insights in the data.

That's all! Keep up the good work.

SQL Queries

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

You have done good work in your queries and all of your queries ran and produced the expected results that can be fed into the charts directly. We appreciate that you have done all the data processing steps in the SQL queries only and made the charts from the output of these queries. That's Awesome!

QUERY#1-4:

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Great work in finding the top-selling albums. Rock is a famous genre and most of the students get insights from this genre, you have explored an interesting insight on the rock genre.
Your focus was mostly on finding the counts of tracks for the different setups and you have also shown your interest in finding the total sales as well.

Learning Resources:

Here I'll leave you with some resources where you can read and learn about some advanced SQL concepts that would be beneficial for you to answer some advanced questions using SQL.

- 10 Advanced SQL concepts
- Advance SQL constructions

Each SQL query needs to include one or more explicit join(s). The query's JOIN or JOINs should be necessary to answer the question. If a question does not require a JOIN, please change the question to be one that does.

Example:
SELECT *
FROM Album
JOIN Track on Track.AlbumID = Album.AlbumID

Nice Work!

You have used an explicit join in each of your queries and your queries has more than one joins. That's great work.
You have also used the table alias and really like that approach.

Extra Knowledge:

For your understanding I'll compare the implicit and explicit joins below:
1. The syntax for explicit join:
SELECT * FROM
table a INNER JOIN table b
ON a.id = b.id;

2. The syntax for Implicit join:
SELECT a., *b.*
FROM table a, table b
WHERE a.id = b.id;

Comparison points:

- The implicit syntax is difficult to understand whereas, the explicit join is easier to read.
- To express joins such as 'Explicit Join Notation' and 'Implicit Join Notation' two different syntactical ways are defined in SQL.
- In 'Explicit Join Notation', ON keyword is used to specify the predicates for Join, and JOIN keyword is used to specify the table to join

Suggestions:

While using the joins try to use the specific type of join like left join, inner join, etc. It shows that you have a better understanding of the joins.

Learning Resources:

- Learning about the different types of joins
- More about implicit and explicit joins

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

Well Done!

All of your queries include at least one aggregation function. That's great. You have used the **count** and **sum** aggregation functions and these are the most popular too.
It is important to be aware of the SQL concepts before applying the aggregation function and you have shown that understanding in your queries.

Learning Resources:

Count and Sum are the two aggregation functions that help us answer most of the questions, but here I'll leave you a detailed list of all the possible aggregation functions that you can use to answer more interesting questions.

- Aggregation functions 1
- Aggregation functions 2

The student has used at least 4 unique SQL queries in their submission.

You have met the minimum criteria of submitting at least 4 unique queries that contain join and aggregation functions.
You have worked around finding the insights around pricing and sales, these are important for any strategy and you have shown your business understanding in framing the questions. You have also worked around the genre

and tracks. That's great.

Good work!

I appreciate the creative thinking that leads you to come up with some really interesting questions. You have done a great job in the SQL queries segment.

Learning Resources:

I'll share a resource where you can find some highly used SQL queries and concepts.

- Advanced SQL concepts
- SQL tutorial

Presentation

Each slide should have an appropriate title, and the visualization descriptions should be free of significant factual, spelling, and grammar mistakes.

You have made impressive slides. All your slides contain an appropriate title and you have done good work with describing the insights that we can gather from the charts. You have added the descriptions about the charts that are easy to understand and conveys the insight clearly.
I appreciate the choice of graphs that you have used in your slides. Each slide leads us to interesting insights as well as answers to interesting questions too.

Learning Resources:

I'll leave you some resources that would help you in deciding upon which charts would be best to explain any particular insight:

- How to choose a Chart type
- Types of graph
- Data visualization

All visualizations should make logical sense and provide accurate information about the indicated area.

You have done a fantastic job to answer the right question using the right chart, and you have explained the insight in a very lucid manner. That's awesome.
Bar chart works well while showing the categorical data and it is always a good practice to show the top few data

points. You did take care of these aspects in your submission.

Learning Resources:

Please find the below articles where you can learn about the art of explaining insights from a visualization chart:

- Art and Science of Data Visualization
- Art of Visualization

All visualizations include a title and axis labels, have a legend where applicable, and are easily understood.

Every visualization should have

- chart title
- x-axis title
- x-axis labels
- y-axis title
- y-axis labels

You have included all the mandatory requirements and that makes your visualization more appealing. Adding labels and axis makes the chart easy to understand and self-explanatory.
Data labels identify individual data points. Data labels are a good way to emphasize or explain a particular piece of data on the chart. Data labels can display the data point's category, its value, or text you enter yourself.

Requirements:

- Chart Title : **done**
- x-axis title : **done**
- x-axis labels : **done**
- y-axis title : **done**
- y-axis labels : **done**

Submission Phase

A PDF report has been uploaded, and a .txt file with the queries has been uploaded in a single zipped folder file

Thank you for sending your submission in the expected format and keeping the text file neat. Thank You!

DOWNLOAD PROJECT

RETURN TO PATH