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Music SQL Database

REVIEW

CODE REVIEW 4

HISTORY

Meets Specifications

Outstanding Phyllis! 🍌 You have a great project here. I like how you raised excellent business questions, used queries to produce data to answer those questions, and visualized the results. I enjoyed reading each of your slides and the analysis you included with each chart. E.g., in slide #3, seeing which artist earned the most in track sales is a great metric that I would want to explore if I owned a music store!

Congratulations on passing! 🍌 Your work shows a great understanding of data and very good analytical skills. Here is a LinkedIn article that describes why it is important to learn SQL that I thought you would enjoy reading!

<https://www.linkedin.com/pulse/why-you-should-learn-sql-brewster-knowlton/>

I have included a few suggestions below and additional references for further reading. Keep up the great work! Best of luck on your next project! :-)

SQL Queries

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

- ✓ All queries run with no errors. Excellent!
- ✓ Queries produce the intended results
- ✓ You have raised excellent questions and used great analytical skills to query the required data for answering

those questions; e.g., the Top 10 selling artists (slide #3)

💡 KNOWLEDGE

You have done a nice job formatting your code to look organized and professional! For further reading on how to format SQL syntax, please refer to this source: [HTTPS://SQL-FORMAT.COM](https://SQL-FORMAT.COM)

Each SQL query needs to include one or more explicit join. 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.

Example:

```
SELECT *  
FROM Album  
JOIN Track on Track.AlbumID = Album.AlbumID
```

✅ Great work on having explicit join statements.

💡 Knowledge

When do I use JOINS?

When the data needed to answer a business question is residing in more than one table. Here is a more in-depth discussion on SQL JOINS: https://www.w3schools.com/SQL/SQL_JOIN.ASP

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

✅ All queries contain at least one aggregation. Kudos!

💡 KNOWLEDGE

Below is a helpful guide to explore the difference between a SUM and a COUNT.

https://www.w3schools.com/sql/sql_count_avg_sum.asp

Below is an image illustrating more aggregations for your reference!

SQL Aggregate Functions	Description
<u>AVG</u>	It will calculate the Average of total records (or rows) selected by the <u>SQL SELECT Statement</u>
<u>CHECKSUM_AGG</u>	It is used to return the checksum of the values in a Group
<u>COUNT</u>	It will Count the number of records (or rows) selected by the <u>SELECT Statement</u> .
<u>COUNT_BIG</u>	It works same as the <u>SQL COUNT</u> function, but it returns the <u>bigint</u>
<u>GROUPING</u>	It is used to indicate whether the specified column in a <u>GROUP BY Clause</u> is aggregated or not
<u>GROUPING_ID</u>	It is used to return the level of grouping.
<u>MAX</u>	It returns the Maximum value from the total records (or rows) selected.
<u>MIN</u>	It returns the Minimum value from the total rows selected.
<u>STDEV</u>	It is used to calculate the Standard Deviation of the selected records @tutorialgateway.org
<u>STDEVP</u>	It is used to calculate the Standard Deviation for population
<u>SUM</u>	It is used to calculate the total or Sum of records selected by the SELECT Statement
<u>VAR</u>	It will calculate the statistical Variance of selected records
<u>VARP</u>	It will calculate the statistical Variance for the population

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

✓ You have created four unique queries for this project, great work!

💡 KNOWLEDGE

Since you used solid conditional clauses in your queries, below is an additional reference for applying conditions using the CASE keyword

https://www.w3schools.com/sql/sql_ref_case.asp

Presentation

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

✓ You have provided clear titles and descriptions to support your visualizations

✓ The visualization descriptions are free of significant factual, spelling and grammar mistakes

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✓ I like the simplicity you have applied to your charts; e.g., The top 10 artists who produced the most Rock tracks (slide #1). Often, simplicity wins the day in visualizations!

➡ Suggestions

- The gridlines in some of your charts are not necessary and can be removed. You will learn more data visualization Dos and Don'ts in the upcoming lessons :-)

💡 Knowledge

The following is a good read on data visualization best practices and choosing the right visual based on context
<https://www.gooddata.com/blog/5-data-visualization-best-practices-0>

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

✓ The visualizations you created make logical sense and provide clear and accurate information.

✓ Great work on deriving and summarizing observations and insights about the data! 🍌

💡 Knowledge

I find that sharing insights with data-driven visualization is part science and part art. The following is a 3-part series of articles by the UN on "making data meaningful" that I recommend reading; I hope you find it useful!
<https://www.unece.org/stats/documents/writing.html>

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

✓ Each slide and chart include a title.

✓ Charts include x and y-axis labels.

✓ Your charts include x and y-axis titles.

💡 KNOWLEDGE:

It is critical to include titles for charts and their axis. Here is a solid read on writing great chart captions:
<https://www.anychart.com/blog/2017/04/05/chart-captions-title-graph-tips/>

Submission Phase

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

✓ A PDF report and .txt file with the queries are uploaded.

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[CODE REVIEW COMMENTS](#)



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