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Explore Weather Trends

REVIEW

HISTORY


Meets Specifications

Dear Student,

Great work! In this project we want to make sure:

- You are able to run effective queries where just relevant information is retrieved
- You are able to extract, at least, 4 insights from your data
- You are able to build a self-explanatory visualization that supports your findings

With your project, it is clear you understand these important topics and even when beyond project expectations as R is used in the analysis, awesome!!!. In the upcoming lessons, you will learn some more, for example, Pandas is a great tool to do the queries, wrangle the data get the insights and even built the visualizations. In my review, I left some links about Pandas showing how to do queries or even build visualizations, in the following lessons you will learn more about these tools, hope you find them interesting!

Congratulations on passing your exam and good luck with your following assignment! 

Analysis

- The SQL query used to extract the data is included.
- The query runs without error and pulls the intended data.

Excellent 

For your reference, this is an [excellent post](#) that describes the importance of writing efficient queries!

For your reference, this is an [excellent post](#) that describes the importance of running efficient queries!.

It is awesome you used R for the project. On the other hand, on the following lessons, you will learn some Python libraries like [Pandas](#) and how SQL is used along with Pandas to manage datasets with Python. Pandas is one of the most useful libraries in Python for Data Analysis, in particular for data wrangling. Also, it brings the [read_sql_query](#) implementation to directly get data from sql databases!. For your reference, this is an [excellent post](#) that describes how to get data into a Pandas Dataframe and also this one to show a comparison between [Pandas and SQL statements](#):

```
import pandas as pd
import sqlite3

conn = sqlite3.connect("flights.db")
df = pd.read_sql_query("select * from airlines limit 5;", conn)
df
```

If you're interested in bolstering your SQL mastery with more questions and puzzles, here are a couple websites I often enjoy to looking for extra coding practice for SQL:

<https://www.hackerrank.com/domains/sql/select>

https://lagunita.stanford.edu/courses/DB/SQL/SelfPaced/courseware/ch-sql/seq-vid-introduction_to_sql/

Moving averages are calculated to be used in the line chart.

Nice work! Moving averages are sometimes tricky, you want to smooth your data without losing sensible information. Basically, there is a tradeoff between the information being represented and lost in the process. Ideally, you want to choose a moving window that captures the events you want to show while filters unnecessary noise from your visualization.

In Python, you can easily calculate moving averages with [Pandas](#). Please [check this post](#) where it is shown how moving averages are used as one of the most common trading strategies.





- A line chart is included in the submission.
- The chart and its axes have titles, and there's a clear legend (if applicable).

Nice work!. Your visualization perfectly captures the insights you described. In general, whenever we make visualizations, we must ask ourselves, *"Can the reader understand what the plot is conveying without looking at code or comments?"*, . In your visualization, all this information is perfectly described with a clear title and axis labels, this really helps your audience to understand the information represented. 🙌

For your reference, this is an [excellent post](#) which you can use to get some ideas!.

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Jan 15 · 16 min read

The Art of Effective Visualization of Multi-dimensional Data

Strategies for Effective Data Visualization

- The student includes four observations about their provided data visualization.
- The four observations are accurate.

Great summary of your data!, your visualization clearly captures the insights described.

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