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Explore Weather Trends

REVIEW

HISTORY

Meets Specifications

Congratulations on passing your first project!

- Nice work updating some points from your previous report to meet all the requirements of the rubric.
- Great job in this "Exploring Weather Trends" project. You have demonstrated a good understanding on how to analyze data trends. You have successfully extracted data from a database using SQL queries and then you have manipulated the data creating a Moving Average formula in order to smooth out the data and make it easier to observe long term trends and not get lost in yearly fluctuations. Good job including observations about the data visualization and making comparisons between the different temperature data trends. Excellent!
- Your report is well written and structured. Any person who reads your report in the future will be able to understand all the ideas and observations you made by analyzing the temperature data. Great!
- Before you move on to your next lessons, take pride in the effort you've put into this project. I hope you found this exercise both challenging and rewarding. Keep up the exceptional work and effort here, and I look forward to seeing you rock those future submissions!
- Happy learning, stay safe!

Analysis

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

the query runs without error and pulls the intended data.

- Excellent job updating your SQL query. ✓
- Now we can see the query you wrote to pull data from Abuja city using the WHERE clause. You have demonstrated a good understanding on how to write SQL queries. ✓
- In your SQL query you can use the join clause to combine records from two or more tables. The advantage of the JOIN clause is that your query will execute faster if you correctly specify the join condition. For example, you can get data from the global data and the city data in a single query. You can see the first section of [JOIN SQL documentation](#), specifically the join fundamentals section to understand the several types of join and their advantages.
- If you want to keep learning more about SQL you can take the following online free course from Udacity: <https://www.udacity.com/course/sql-for-data-analysis--ud198>. I really recommend this course because you will learn how to write efficient SQL queries, join tables together and perform aggregations.


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

- Great job using Moving Average to properly smooth out the data and avoid steep yearly fluctuations. ✓
- It is true that the value of the average number of years to be considered is a parameter that is left to the judgment of the data analyst. To choose a correct value you can try a high value (greater than 20 for example) and see how the curve flattens. You'll see that some details of the data trend are likely to be missed. On the other hand, if you test a low value (less than 10) you will see that the curve still has high fluctuations that make the curve very noisy and it can confuse at the moment to make observations. That is why a value between 10 to 15 years is recommended to make accurate observations. So great job updating the number of years in your Moving Average formula. ✓

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

- Excellent job updating the title of your chart and the legend. ✓
- Remember that one of the tasks of a data analyst is to analyze the data, find insights, and then convey those ideas clearly and easily through visualization charts. When the readers look at your graphs, they should easily understand the ideas through the title of the graph, the name of the axes and the legend to see if you are comparing different trends. So great job! ✓
- From your chart we can see that there is temperature data from Abuja city since approximately 1860. So you can plot both temperature data since this year in order to properly compare the different trends. This is a suggestion, not required.
- If you want to learn more about Line Charts you can visit the explanation of how to plot effective line chart graphs from [Data to Viz](#).
- You can also check out the udacity online free course [Data Analysis and Visualization](#) and you will learn several visualization techniques.

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

- Your observations are accurate. Excellent! 

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