UDACITY

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DISCUSS ON STUDENT HUB

Explore Weather Trends

REVIEW

HISTORY

Requires Changes

1 specification requires changes

- Good attempt! We just need to make sure you understand how to pull intended data with SQL.

Possible improvement:

- Please think about what kind of insights you can draw from the data constantly to develop a data analyst mindset. It'll be useful for you in the future.
- Feel free to edit your plots using my suggestions if you want, especially if you want to upload it on your github to showcase your skills.
- Happy learning, stay safe!

All of my suggestions are to help you improve, and not meant to minimize the great effort you have put into your project. I'm doing my best to point out areas that can be improved, and it could be too much for some. If you feel that way, simply skip the suggestions but try to meet the minimal requirement to pass the project.

project.

Analysis

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

- Good job including the queries you used, but we want to make sure you understand how to use conditions while pulling the "intended data" (as specified by the rubric). Please modify your CITY_DATA query to show that you know how to do so (Hint: you will want to use **WHERE** in your query to pull your city data).

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

- Good job using 5 years moving averages.
- For the moving average calculation, anything between 10-15 is good. 5 is on the smaller side, but it's generally ok.

Suggestion (for improvement but **not required**):

- You may still want to adjust the number of years to use for this calculation if the curves are too noisy or smooth. This is a judgement call that's entirely up to you to determine whether you can see the overall trend well or not. While a large number of years help smooth out the curve, it can also remove important trend on top of noise as well. The value you used for the calculation is on the smaller side, so the focus is whether you removed enough noise or not.
- If you need more information on moving averages, please check the webpage below: https://www.investopedia.com/terms/m/movingaverage.asp

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

- Good job creating a clear plot for comparison with a legend, axes labels, and a title.

Suggestions (for improvement but **not required**):

Suggestions (for improvement but **not required**):

- The title is great, but I'd mention the chart type in case someone had difficulty understanding the plots. You can use **Line Chart of Moving Average Temperature** or **Line Chart of Global vs. Abuja Temperature (Moving Average)** to show the general idea of the plot. You can also include a short one-sentence description underneath the plot if you want to explain further. Note that this is just a suggestion as I want you to develop a way of plotting that will work the best for you since plotting is an art. It's entirely okay to leave it as it currently is.
- The legends were a bit wordy (usually when you have to use the same description in all of the legend, then that information can be somewhere else such as in the title). You just need to show the difference between the two curves as legends identify the different groups of data on the graph. Using **Global** and **Abuja** is sufficient for that purpose. Try to make your plot clear and concise to make your readers focus on the actual plot instead of the minor details. Please make sure you put "moving average temperature" in the chart title, so your investigators will know what it is without any confusion.

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

- Good job including accurate observations. The only thing I'd change is to change the numerical values up to 3 decimal places instead of 8 decimal places as anything smaller won't make a big difference unless you need them for comparison.

Suggestion (for improvement but **not required**):

- It's **not required**, but it's good to think about translating data into insights in your spare time. You can elaborate your observations further as investigators usually only value how much information you can provide, so it's good to spend more time practicing them. Imagine you are doing this for work or a professional setup, what kind of insights would you draw from this?
- Your insights look good, but you can talk about the two sets of temperatures individually, then compare them based on their min/max/variance/mean to make it **more statistical**. A table for stats like that would make your report stands out as it's quick and efficient for comparison.
- Also, if you talk about the moving average temperatures, you can also provide statistics and its standard deviation as well to make your report looks more robust. So my suggestion is to try to use as many stats as possible when making inferences if that makes any sense.
- The insights will set you apart from the others, so I highly encourage you to spend more time doing this part of the project (even for future projects) :)
- I wish you could start developing a data analyst's mindset for the future if you want to proceed with this route.

RESUBMIT

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