UDACITY

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DISCUSS ON STUDENT HUB

Explore Weather Trends

REVIEW

HISTORY

Requires Changes

1 specification requires changes

Getting Close!

A great first effort! Your SQL queries worked well and ran smoothly. There are still some points that do not correspond precisely to what we are looking for in our rubric. So check the comments in each section to see which area still requires some change.

A submission that is sent back is not an indication of underperforming, and sometimes your current submission has little or no error (but it may not correspond to our rubric). I think it gives me another opportunity to reinforce an idea or topic that is particularly important in the lesson. I hope you are enriched in a way too.

In addition, I took the opportunity to give you some improvement tips. I hope you like them! 😉

Keep up the great work, and I look forward to your next submission!

Analysis

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

Great work here in extracting the data for your local city and comparing that to global temperatures. Your queries were spot on! I appreciate that you looked at the cities from your country of origin and chose one that best represented the area where you live.
If you're interested in bolstering your SQL mastery with more questions and puzzles, here are a couple of websites I often enjoy to looking for extra coding practice for SQL:

https://sqlzoo.net/
https://mystery.knightlab.com/
https://www.hackerrank.com/domains/sql/select

You'll get a chance to practice increasingly difficult questions and learn how to interact with multiple tables at once.
As an example, here is another way to get the data that you want for both Local city and Global while excluding the `empty years` in one table output!

```
SELECT
    city_data.year,
    city_data.avg_temp as city_temp,
    global_data.avg_temp as global_temp
FROM city_data, global_data
    WHERE city_data.year = global_data.year
        AND NOT city_data.avg_temp IS NULL
        AND city_data.city = 'YourCity';
```

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

Excellent work here in calculating some years moving average for both Local city and Global temperatures. The gap between these two lines is very apparent here. I noticed that you excluded years in which data was missing from the Local city, this is certainly one way to handle missing data in analytics. Here's a link to a blog that details several other techniques we can use when dealing with missing data. I encourage you to check it out in your free time!

https://www.iriseekhout.com/missing-data/missing-data-methods/

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

The line graph included in your submission looks good, but some information is still missing.

Here is a list of information for you to have a complete chart:

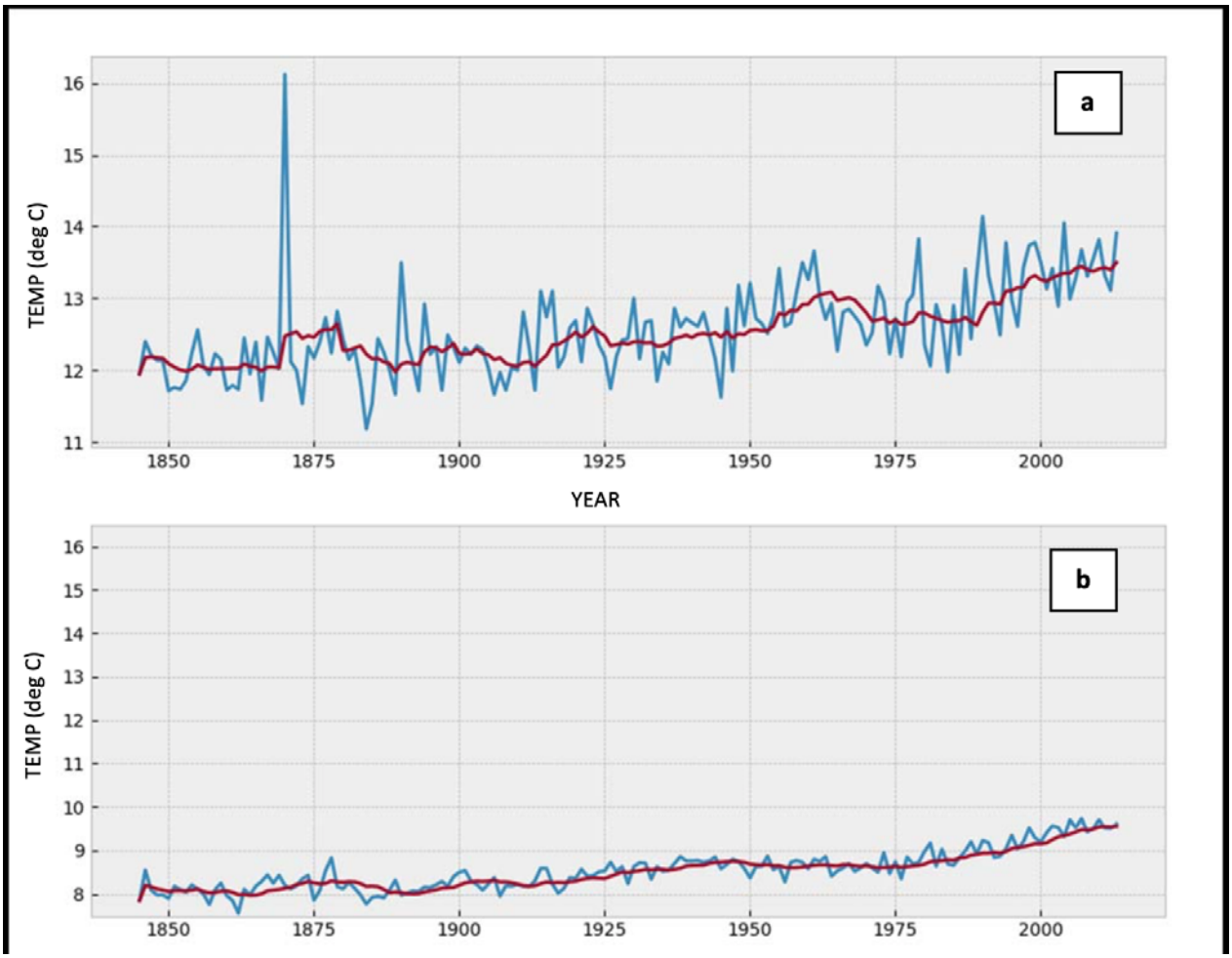
1. The represented `title`. ❌
2. The `values` of the x-axis in Years. ✅
3. The `label` of the x-axis (Years). ✅
4. The `values` of the y-axis in Degrees Celsius. ✅
5. The `labels` of the y-axis (Temperatures in Degrees Celsius). ✅
6. The two trend lines (one line for the local and another for global temperatures). ✅
7. The `legend color` for the local city temperatures trend line. ❌
8. The `legend color` for the global temperatures trend line. ❌
9. `Smoothed trend lines` (moving average was applied). ✅

Suggestions:

1. Add the two trend lines on the same chart. This makes it easier to see the differences visually.
2. Besides, the main title could be added with the name of the local city vs. global temperatures, and the interval of years that you were analyzing, at the end of the title. It gives an overview of what the chart is, precisely. The idea is to ensure that your title conveys the main point of the message you are trying to communicate. Explanatory titles have a significant impact on the overall clarity of your chart.

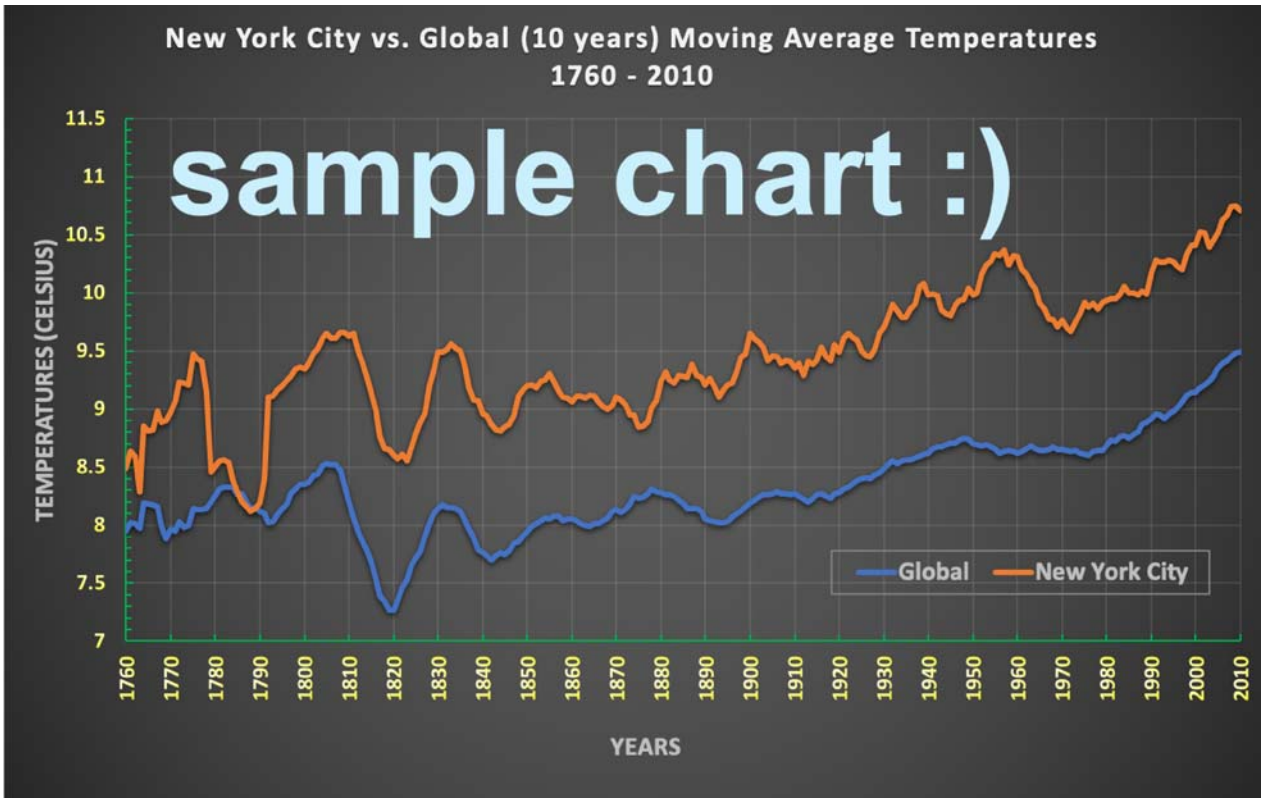
For example:

```
YourCityName vs. Global (XX years Moving Average) Temperatures StartYear - EndYear
```



YEAR

Here is an example of a chart that can help you in future submissions.



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

You have analyzed the output of your chart and making the observations from it. Great job!

Some tips that can be useful when you create future observations:

Always bring `X` and `Y` axes values (in this case, `Years` and `degrees Celsius`) from the `chart` to your `observations`.

Always explain the dimensions and variables of the chart by name:

In this case:

- The city you refer to, for example, `New York City` , `London` , `Rio de Janeiro` ;
- The differences of `temperatures` in `degrees Celsius` ;
- Over the `years` .

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