

[Return to "Data Analyst Nanodegree" in the classroom](#)

Explore Weather Trends

REVIEW

HISTORY

Meets Specifications

Congratulations!

GOOD JOB ON THIS PROJECT! YOU HAVE MET ALL THE REQUIREMENTS OF THE RUBRIC.

You demonstrated your ability to retrieve data from a SQL Database and derive interesting, accurate results from the output of your query. You were further able to manipulate this data using external software and create a meaningful visualization to demonstrate your observed results. This is a tremendously important skill and will prove useful throughout your career in data analytics.

Keep up the good work and effort here, and I look forward to seeing you rock those future submissions!

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!

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/

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 a city (e.g. Lagos) 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 = 'Lagos'
```



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

Excellent work here in calculating the moving average for both your city and Global temperatures.

As you mentioned, the period of available data is not equal for your city and globally. In these situations using a period in which there is data available for both spheres is certainly a way to deal with it! Good job.

You may face other situations in the future where you'll have to choose other techniques when dealing with missing data. If you're interested in learning more, here's a link to a blog that details a number of other options. 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 chart included in your submission looks great!

The chart contains a clearly represented title that explains the details of the presented line graph, as well as clear labels for both axes. This attention to detail really goes a long way to help communicate your results to an audience.

I especially appreciate that you rotated the year values on the x-axis so that they don't overlap one another. Well done!



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

The line chart included in your submission looks great!

The chart contains a clearly represented title that explains the details of the presented line graph, as well as clear labels for

both axes. This attention to detail really goes a long way to help communicate your results to an audience.
I especially appreciate that you rotated the year values on the x-axis so that they don't overlap one another. Well done!

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