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# Explore Weather Trends

## REVIEW

## HISTORY

### Meets Specifications

Hi Hazem,

You have done a fantastic job with this project

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.

I wish you the best of luck with the remainder of the course and upcoming projects.

### Analysis

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

Excellent job with your SQL query. The query is structured as such that allows the intended data to be downloaded in one table output instead of having to download multiple files, and also only including years that match in city and global temps. Very well done.

***Suggestion:***

Here is an example of another way the SQL query can be structured to get the intended data:

SCHEMA	56
city_data	57
city_list	58
global_data	59
	60
	61
	62

  

56	SELECT city_data.year, city_data.avg_temp as
57	city_temp, global_data.avg_temp as global_temp
58	FROM city_data, global_data
59	WHERE city_data.year = global_data.year
60	AND NOT city_data.avg_temp IS NULL
61	AND city_data.city = 'Damascus';
62	

  

Output	206 results	Download CSV
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year	city_temp	global_temp
1808	14.91	7.63
1809	17.04	7.08
1810	17.09	6.92
1811	17.12	6.86

**Learning Note:**

If you're interested in further enhancing your SQL skills, here is a link for some interesting exercises:

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

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

Excellent job calculating a 10 year moving average for both Damascus and Global temperatures. The 10 year MA definitely does smooth out the data while still showing trends clearly.

Moreover, the calculation shown, `=AVERAGE(A1:A10)`, does align with a 10 year MA.

- 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 is structured as such that allows your audience to see the comparison between Moving Average temps in one chart. The differences in temperatures are apparent in the plot, while trends can be clearly observed.

The graph is appropriately structured, as requested by the previous reviewer. The plot presented contains a clearly represented title that explains the details of the presented line graph, x and y-axis labels, as well as legends. I appreciate the time you have taken to ensure that your audience is aware of the temperature

scale being observed(Celsius). This attention to detail really goes a long way to help communicate your results to an audience. Well done.

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

Your project is structured well which makes it easy to follow along with the project.

Observations noted are clear and concise, and insights are spot on.

Overall, very nicely done with this project.

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