Project 01

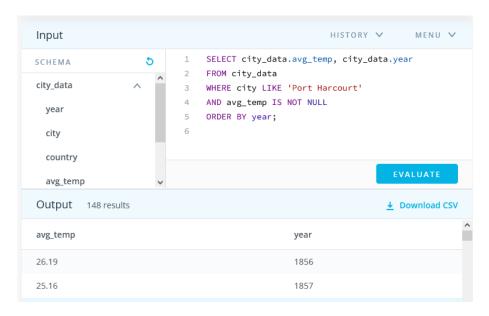
Explore Weather Trends for Port Harcourt, Nigeria and New York, USA

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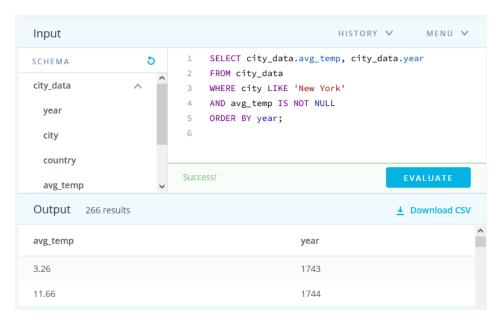
Date: February 28, 2022

SQL QUERY

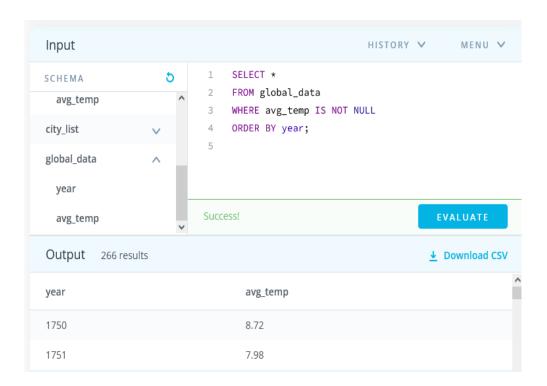
1. I used this SQL query for the database to get the average temperature for Port Harcourt and to remove null values from the data.



2. 1. I used this SQL query for the database to get the average temperature for New York and to remove null values from the data. I chose New York City because it's my favorite city and has a different climate from Nigeria.



3. 1. I used this SQL query for the database to get the global average temperature and to remove null values from the data.

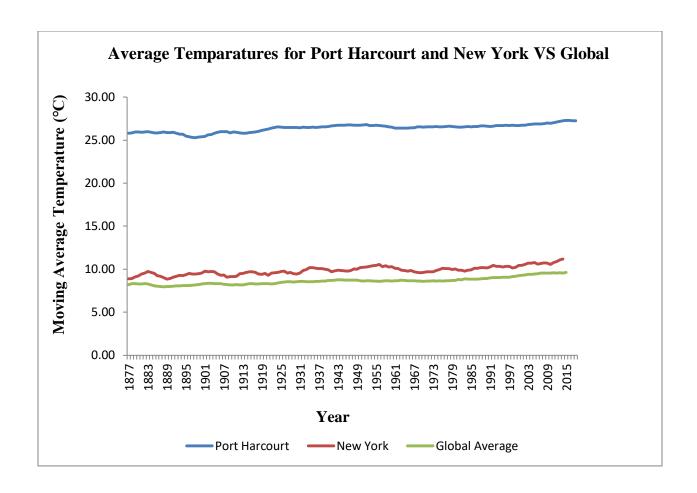


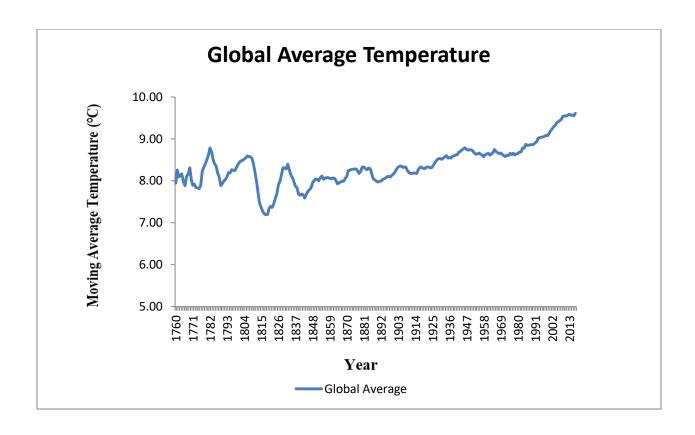
MOVING AVERAGE

I calculated the moving average of the average temperatures using Excel by calculating the average temperature for the first 7 years and then repeated the procedure throughout the data. This is done in order to smooth out the data and make the trends easier to observe.

VISUALIZATION

I plotted a line chart of the average temperature for Port Harcourt, New York and the global average temperature. The moving average temperatures was plotted on the y-axis and the year range on the x-axis





OBSERVATIONS

- 1. Port Harcourt is hotter when compared to the global average.
- 2. The global average temperature shows a steady rise since 1914 which supports global warming.
- 3. New York's average temperature has also been on a steady increase since in the past 2 decades despite having a colder climate.
- 4. New York's average temperature is slightly higher when compared to the global average temperature.
- 4. The overall trend of both cities shows that the world is getting hotter and this has been consistent over time.