Project 1 - Exploring Weather Trends
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1. Write a SQL query to extract the city-level data. Export to CSV.

First and foremost, I used this query to see if the city I was in was included in the city_list data.

I was able to find the city, so I proceeded to extract the data from the city_data by writing this query

3. Write a SQL query to extract the global data. Export to CSV.

Input	HISTORY ∨	MENU ∨

SCHEMA ↻

city_data ∨

city_list ∨

global_data ∨

```
1    select *
2    from global_data
3
4
```

Success!   EVALUATE

Output   266 results   ⬇ Download CSV

year	avg_temp
1750	8.72
1751	7.98
1752	5.78
1753	8.39
1754	8.47
1755	8.36
1756	8.85
1757	9.02

↑ Menu   ↙↗ Expand

Open CSV

After opening the Lagos_data CSV FILE and the global_data CSV FILE:
- I moved the lagos_data to a new spreadsheet
- The global_data file started from year 1750, but the lagos_data file started from 1849, so I copied the data from global_data starting from 1849 to the master sheet.
- I noticed some years were missing a lot of avg_temp, so I removed those data from the master sheet to have a cleaner data.
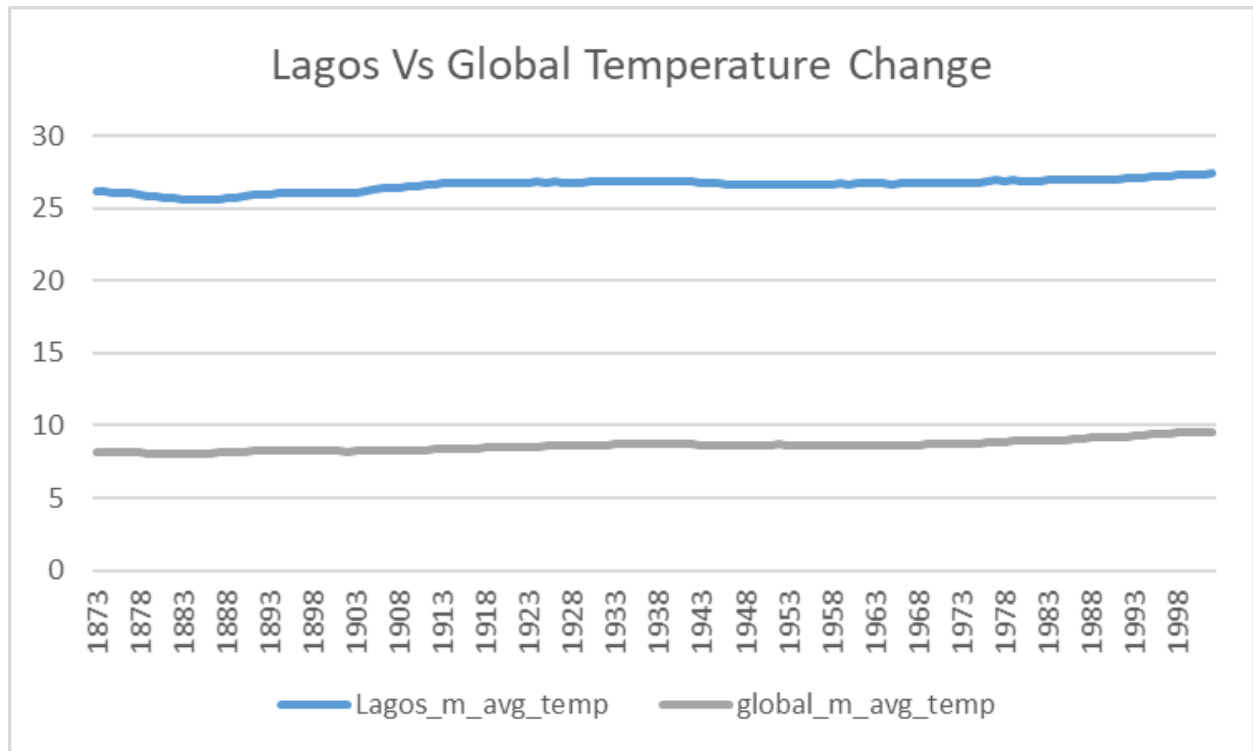
Create a line chart

To create this line chart, I plotted the moving averages **[=AVERAGE(D2:D13)] and =AVERAGE(F2:F13)** on an excel sheet in order to smooth out the lines, making trends more observable.

 Project 1
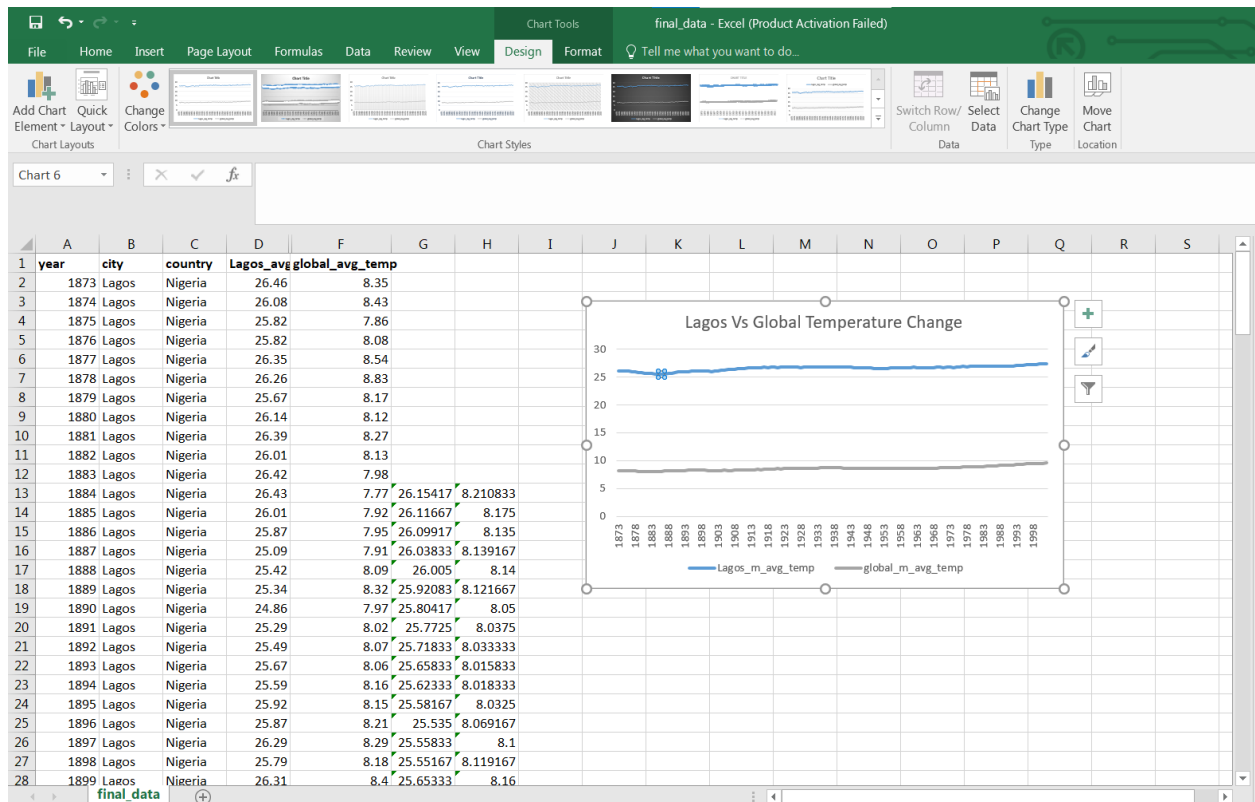
The image below shows the chart generated.

Make observations

1. The weather in Lagos is warm when compared to the global average based on the fact that the temperatures have always been higher in the past couple of years

2. For both cases, there is an upward trend in the average temperature

3. On the Lagos average temperature chart we can see a spike in the increase of temperatures from the year 1911 at 26.95 degrees, which remained stable until 1994 when it hit 27.13 degrees.

4. In 2002, the global average temperature reached 9.55 degrees, while the lowest average temperature was 8.27 degrees in 1873. At Lagos, the highest average temperature was 27.39 degrees in 2002, and the lowest average temperature was 25.55 degrees in 1887.

5. I would conclude by saying the world is getting hotter over time.