

Explore Weather Data

1 - Steps

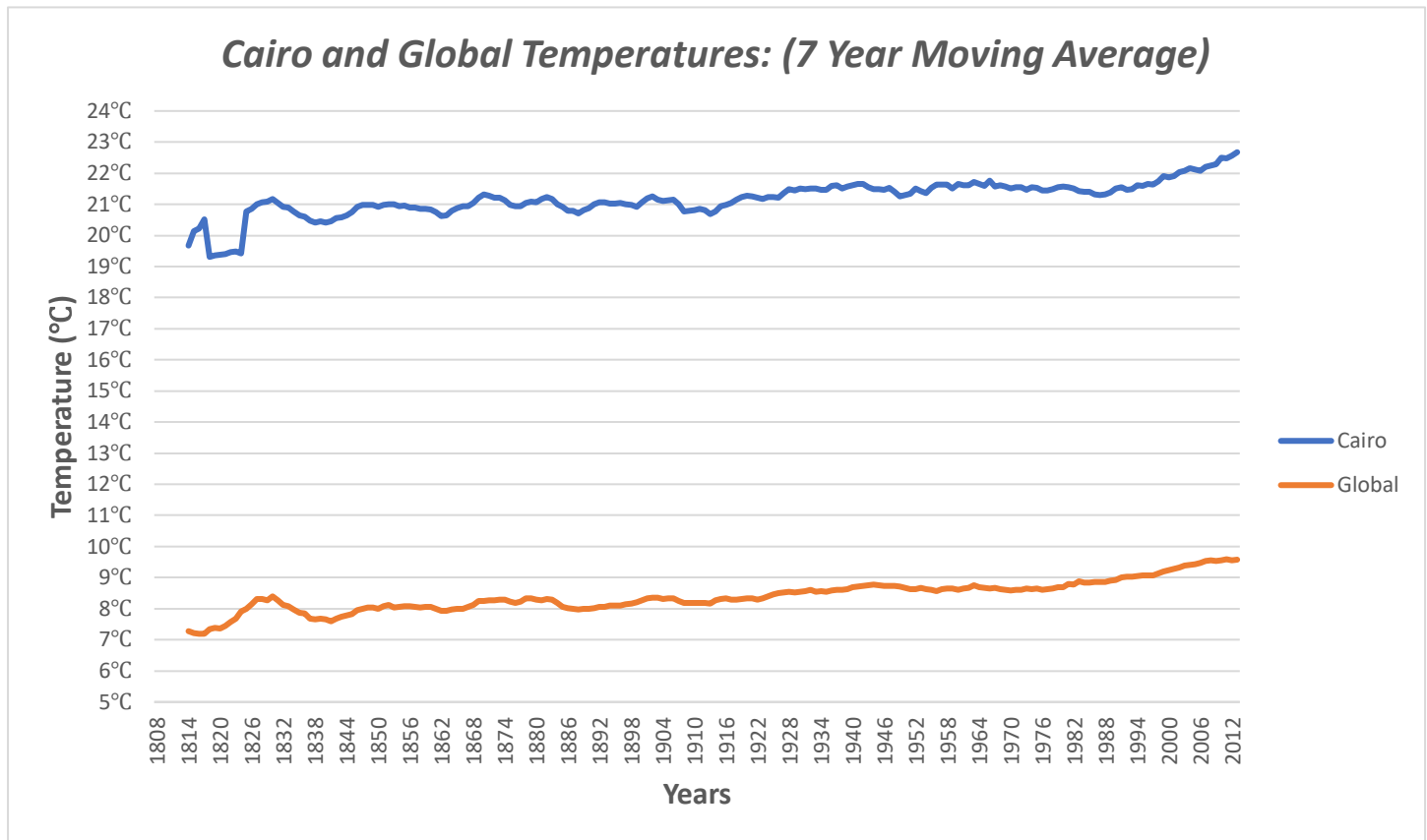
- **Extracting the Data**

- My city is Cairo so I will be extracting the data for it.
- Used the following SQL commands to extract Global Data and my City's Data.
 - `SELECT * FROM global_data`
 - `SELECT year, avg_temp FROM city_data WHERE city = 'Cairo'`
 - `SELECT c.year, c.avg_temp as cairo_temp, g.avg_temp as global_temp FROM city_data c JOIN global_data g ON c.year = g.year WHERE city = 'Cairo'`
- Download result as CSV file.

- **Creating the line charts**

- Open the file using Excel
- Create the 7-year moving average for both columns `cairo_temp` and `global_temp` using `AVERAGE` function into `MA_cairo` and `MA_global`.
- Create the line charts using Line Plot in Excel for Cairo and Global.

2 - Line Charts



3 - Observations

- The minimum average degree for Cairo is 11.6 and the maximum is 23.72 while the minimum average degree globally is 6.86 and the maximum is 9.73 .
- Cairo's average temperature is much higher than the global average temperature.
- Cairo's average temperature undergoes more changes and fluctuations than the global average temperature.
- Both Cairo and global temperature are trending upwards.
- Cairo had a significant drop in average temperate in the year 1818.