

Explore Weather Trend Project

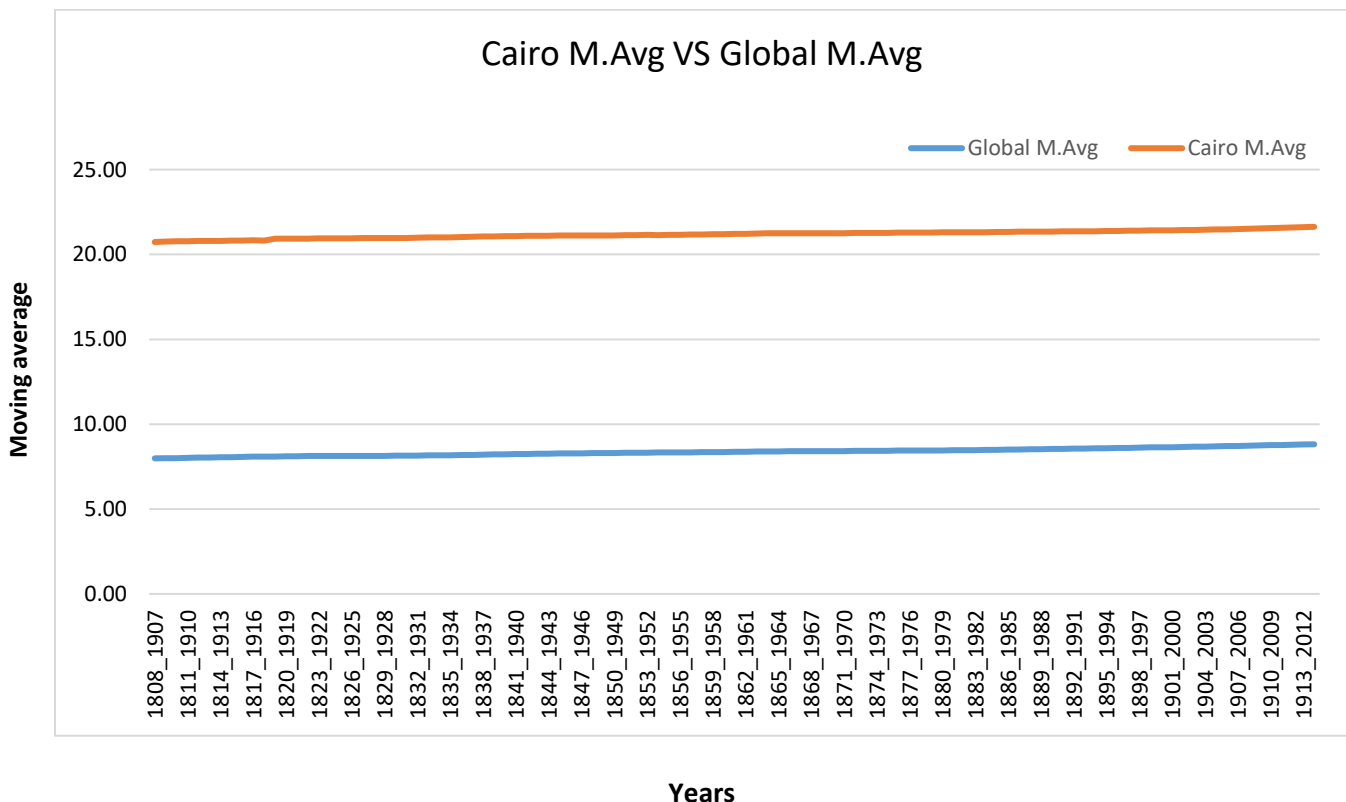
Outline:

- The tools that used in the extracted data is SQL and Excel for manipulating with the data and visualization.
- I am calculated the Moving average for each 100 year taken the average from 1808 and moved to 100 years till 1907 by using Average () Function in Excel and then copy and drag the cell.
- I decided to shows the long term trend for the weather for each 100 years to see the changes occurred over the time.

SQL Query:

```
1- SELECT *  
FROM global_data  
  
2- SELECT *  
FROM city_data  
WHERE city = 'Cairo'
```

Visualization:



Observation:

1. The moving average for Cairo temperature is hot than global temperature.
2. There is increasing mode in temperature for Cairo and Global temperature over time.
3. The overall trend for global temperature is look like smoothly and the trend has been consistent over the last few hundred years and also the same for Cairo temperature is consistent and getting hotter.
4. There is a variance between Cairo temperature than global temperature approximately 10 C.