An outline of steps taken to prepare the data to be visualized

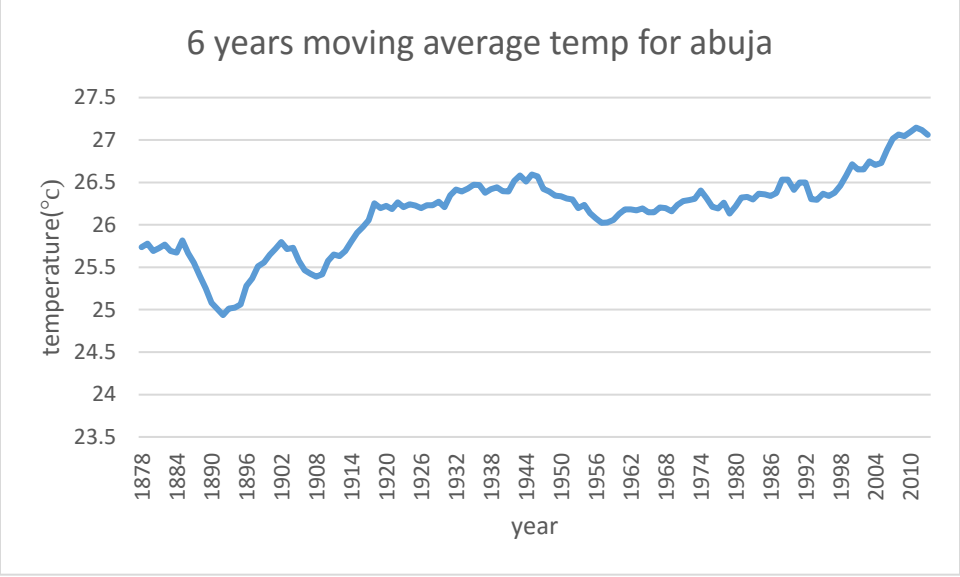
- I used sql to query the data base in order to look for Abuja city average temp
- I used sql to query the data base in order to look for the global average temp for the same period I had for my city
- I exported all to my excel sheet
- I created a 6 year moving average for both data set
- Then I made a scatter plot for the two MA
- Then calculated the correlation coefficient
- I considered the years I selected for both average temperatures.

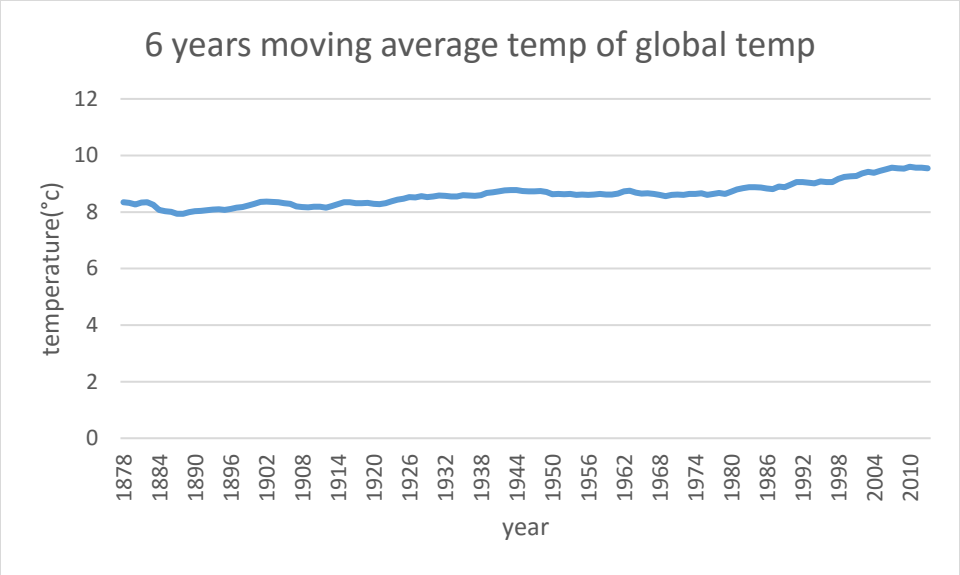
How I calculated my 6 years moving average

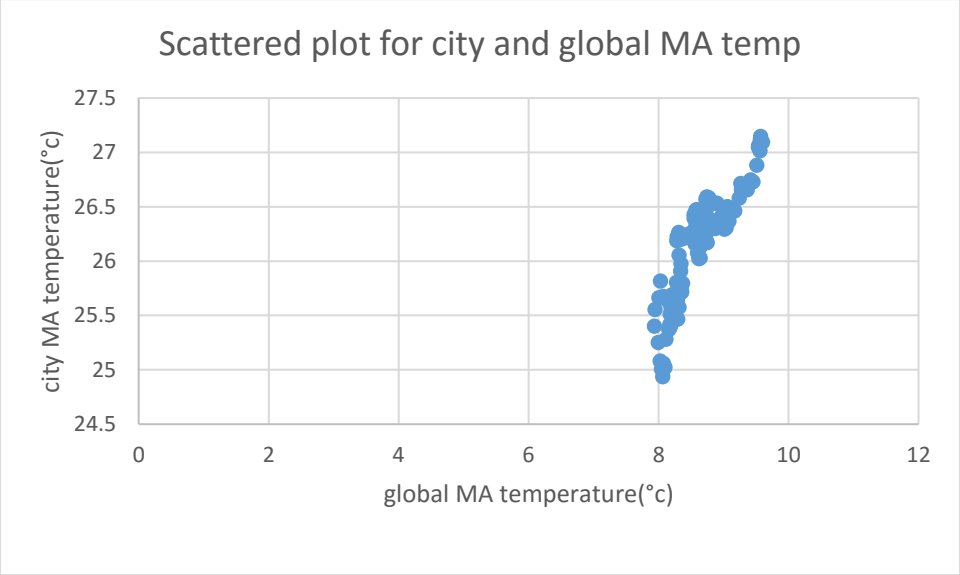
- I calculated the average temperature for (1973 to 1978), using =average(b2:b7)
- Then I copied the cell and paste it all the way down to the end of the data.
- Same procedure for global temperature

Similarities and/or differences in the trends

- Both visualization shows a trend of increasing temperature of the years.
- Another similarity is that both visualization have the same range which is 2(°c) which is the difference in the highest and lowest temperature from the graphs.
- For global MA trend there is a smooth positive increase over the years while for the city MA trend there is a rough trend.
- There is a positive strong correlation between the two MAs of 0.8







SQL code used

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select year, avg_temp
from city_data
where city = 'Abuja';

select *
from global_data
```

where year > 1872