Project 1

First : Data was extracted via SQL

SQL instruction

To get the local data for 'Riyadh':

Select year , avg_temp from city_data

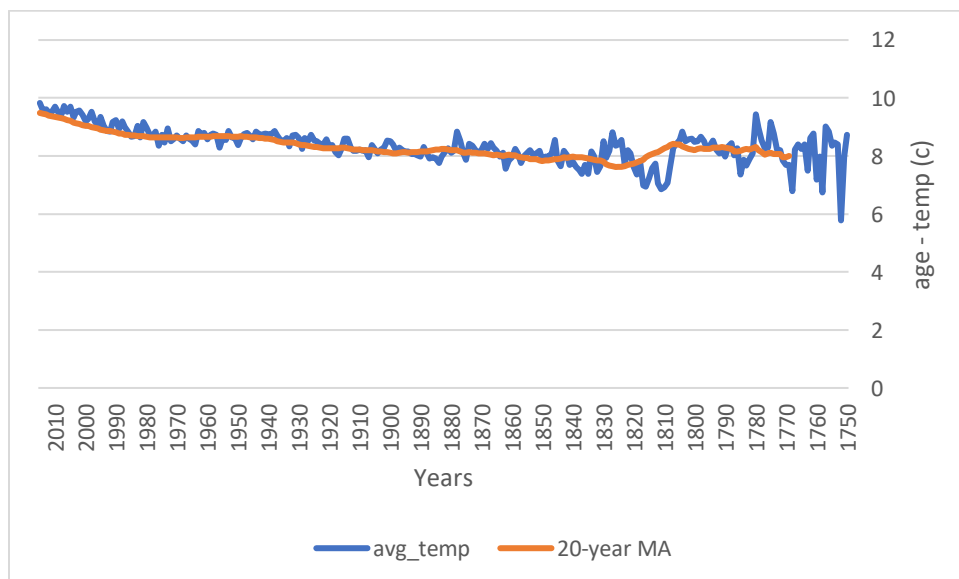Where city='Riyadh':

And

To get global data:

Select*

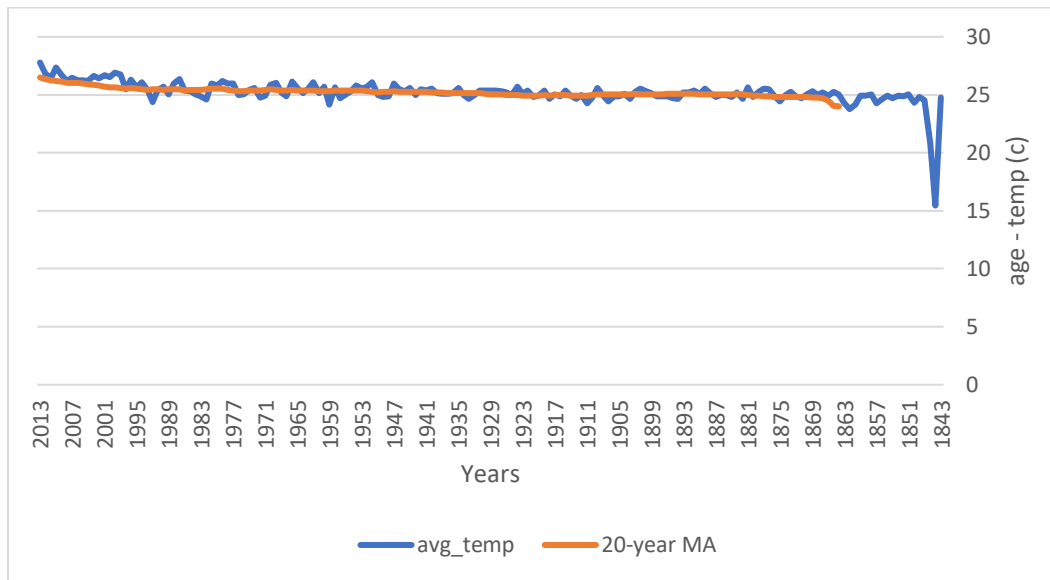From global_data

Then I downloaded the datasets as CSV file.

Next: Then I opened the CSV file in Excel , I added a third column to calculate moving averages , I calculated a 20-year moving average , I clicked on the blank cell to the right of the value 20 , then I clicked the average , then specified the values to be averaged , then I pressed Enter and then dragged the arrow down to bring up the moving average for the rest of the values.

Next: Then I created line charts to compare global temperatures and temperatures in my city over the past years.

Number of years compared to global average temperatures

The number of years compared to the average temperature in Riyadh

Notes:

1- I noticed my city , Riyadh , is hotter than the global heat .

2- I noticed that in my city , with the increase in the , the temperature rises.

3- I also noticed that the world is getting hotter with the passage of time , the more years , the higher the temperature.

4- I also noticed that the temperature in my city is increasing at a faster rate than the global temperature.

5- Also the trend changes have not been constant over the past hundreds of years.

(In the Riyadh data , missing data for 1846 and 1847 have been number due to the large number of data that will not have an impact)