Exploring Weather Trends

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I was using SQL to extract the data from the database

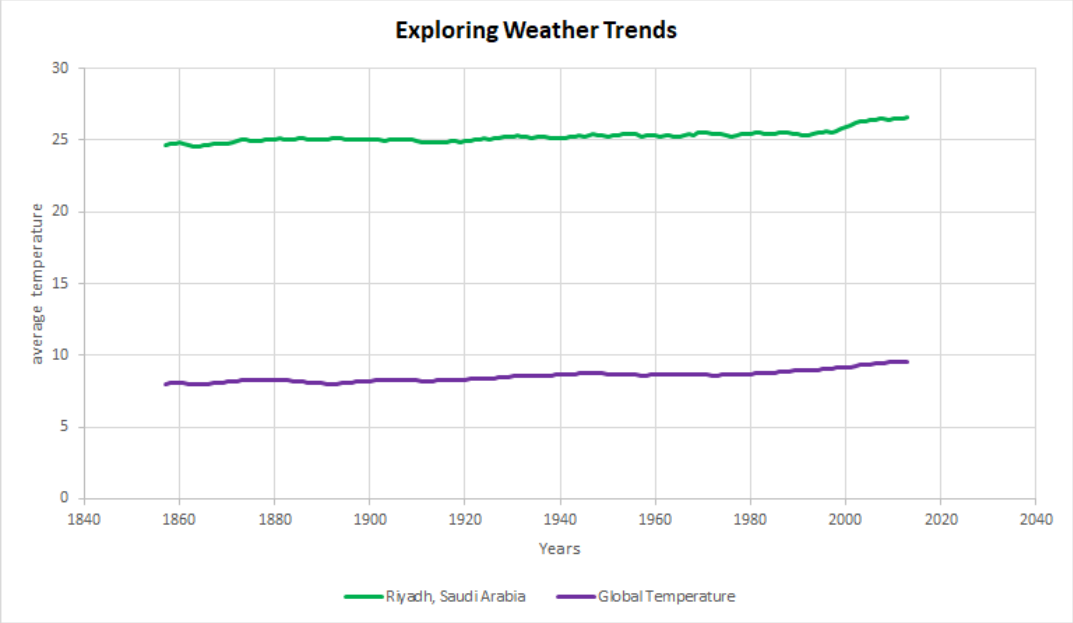
1) select * from city_list to find a list of cities and countries to determine my city or the nearest.
2) Select * from city_data where city = 'Riyadh' to extract the city level data.
3) Select * from global_data to extract the global data.

After I download the CSV file from step 2 & 3, I organize the file and styling and copy all information in one Excel file. Second step was calculating the moving average for Riyadh and global temperature in excel sheet by using the average function and determine in the number 10 days for both.

key considerations:

- start calculating the moving average for both columns from same years 1857 after clean data (by remove the two rows before these years to don’t have null value in Riyadh city temperature)
- Choose the line chart represent the data in a clear graph with two axes X and Y, where X shows the years, And Y shows the representation of the average temperatures for the Riyadh city and the global temperature.

Line chart:



My observations:

- My city (Riyadh, Saudi Arabia) is hotter compared to the global average
- The trend been consistent over the last few hundred years for the Riyadh and the global Temperatures
- Temperatures in Riyadh and the global was increasing in 1980 to become hotter more with the years.
- Average temperatures are slowly rising in Riyadh and the global