Weather trends project

first of all, the tools used for the project are:-

1-SQL:-

1st Query:

Select *
from city_data
Where city = 'Riyadh'

2nd Query:

Select avg_temp , year
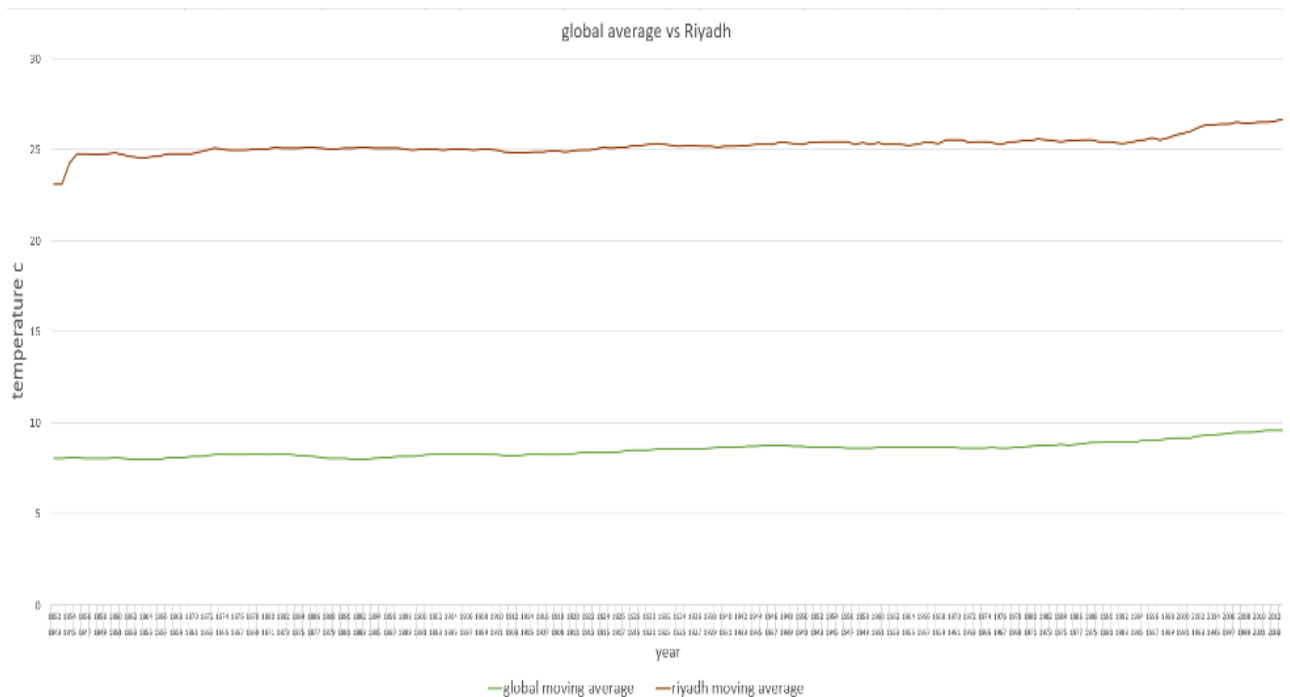from global_data
where year between 1843 and 2013

2- EXCEL

The moving average process:-

I have calculated the moving average by taking 20 rows of the column avg_temp (which means 20 years), and took the average of each 20 rows separately for both of the 2 tables.

What were your key considerations when deciding how to visualize the trends?

I have considered using 20 years to visualize the trend properly, because I think using less than 20 years is making the chart looks noisy. In the other hand using more than 20 years will make the chart inaccurate.

global average vs Riyadh

similarities:-

1- The temperature in Riyadh is fairly consistent with the global temperature.

2- As shown in the chart there is a rise in the global temperature which affected Riyadh.

differences:-

1- Clearly as shown in the chart Riyadh temperature average is above the global temperature average.

2- there is a near steady 18 degree difference in temperature between Riyadh and the world