Exploring Weather Trends Udacity Nanodegree program data analysis

Ibrahim Ahmed Alomari

What tools did you use to for each step

- I used SQL for to extract data from database :
  - select * from global_data;
  - select * from city_list where country = 'Saudi Arabia'
  - select year , avg_temp from city_data where city = 'Riyadh'

- I used Microsoft excel to calculate the moving average and to create a line chart

How did you Calculate the moving AVG ?

I calculate the moving average of 5 years by using average formula and then dragging down to the last

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

My key consideration was to observe is it increasing or decreasing moving AVG temperature

Line chart with local and global temperature trends

Chart Title

Riyadh Avg Temp — Global Avg Temp
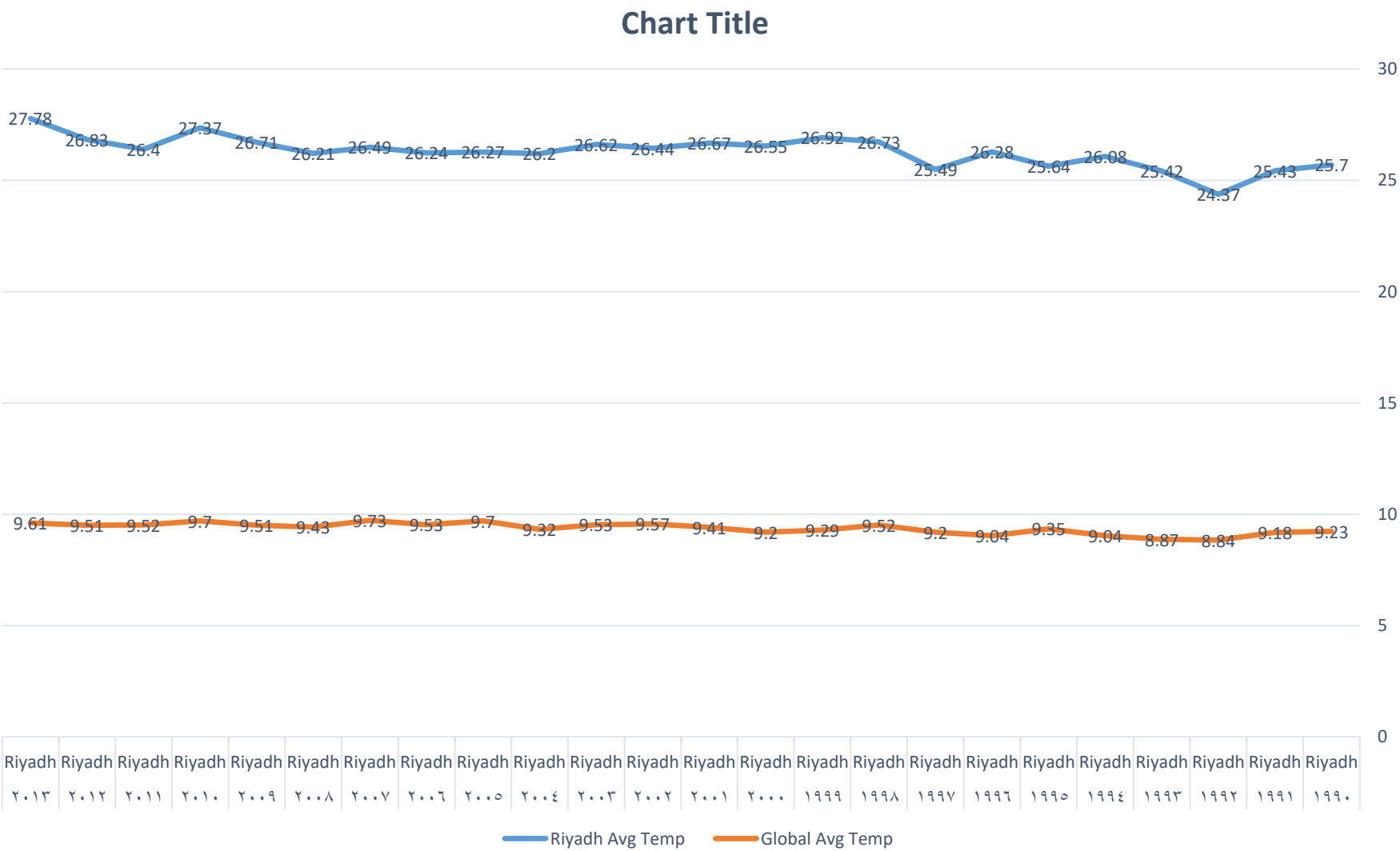
four observations

- ## similarities :

  ❖ On the short term both lines are volatile , but on the long term both display a slow increase trend.

  ❖ Both graphs shows increase in average temperature with time

- ## Differences :

❖ Local average temperature is observed to be hotter than the global average temperature

❖ Global moving average temperature is increasing at faster rate in comparison to local moving average temperature.