

Project 1

In this project, local and global temperature data was analyzed, and the temperature trends of Riyadh city was compared to the overall global temperature trends.

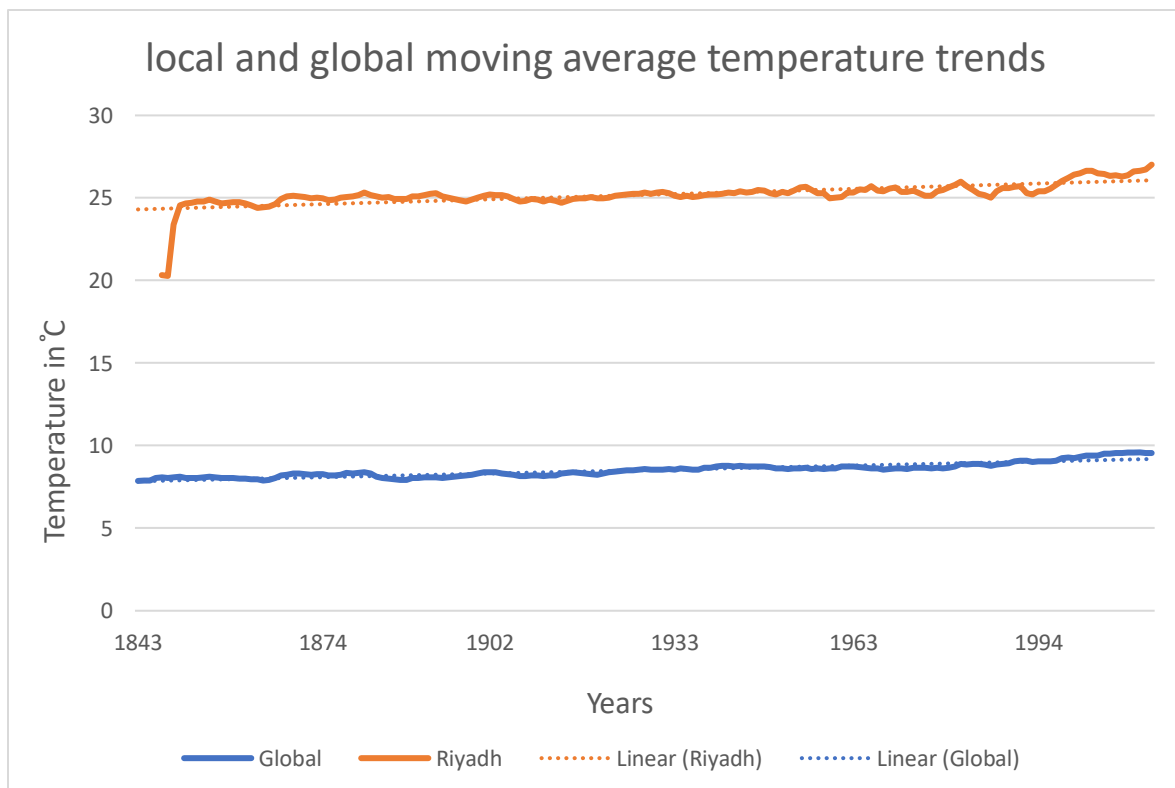
1. The data was extracted using the following SQL queries:

1. `Select year, avg_temp From city_data where city = 'Riyadh';`
2. `Select * From global_data;`

2. The data was manipulated by using Excel spreadsheet:

The moving average was calculated by using the Excel Data Analysis toolPak with 5-point interval. The reason behind using 5-years to get smoother and closer moving averages to the actual data points.

3. Data visualization:



4. Observations:

1. Riyadh average temperature is much higher than the global average temperature where it ranges between 20.3 and 26.7 °C. On the other hand, the range of the average global temperature is between 7.9 and 9.5 °C.
2. which means that Riyadh is hotter on average compared to the global average.
3. The changes in Riyadh's temperatures is more fluctuated compared to the changes in the global average
4. There is one big peak in the beginning of Riyadh trends due to the missing of some data.
5. The overall trend indicates that the world is consistently getting hotter. however, in the last ten years the temperature increased unexpectedly.