Project 1: Exploring Weather Trends

In this project, I will analyze Riyadh and global temperature data and compare the temperature trends where you live to overall global temperature trends.

The steps:

- **Extract the data** from the database.
- Write a SQL query to extract the city level data. Export to CSV.
  Select year, avg_temp from city_data Where city = 'Riyadh';

- Write a SQL query to extract the global data. Export to CSV.
  Select * from global_data;

- **Open up the CSV**   I will use Excel.
  - Open a New Excel Document.
  - Navigate to the "Data" tab.
  - Click on the "From Text" button.
  - Navigate to the folder holding the .csv file and click on the file.

To calculate the moving average of Riyadh temperatures I will use Excel, and create a column called 5_year MA(Riyadh), which is where the moving average field will be stored. Go down 5 years and use the AVERAGE() function to calculate the average temperatures for the first 5 years of average temperatures.

To calculate the moving average of global temperatures I will use Excel, and create a column called 5_year MA(global), which is where the moving average field will be stored. Go down 5 years and use the AVERAGE() function to calculate the average temperatures for the first 5 years of average temperatures.

- **The line chart** that compares Riyadh temperatures with the global temperatures.
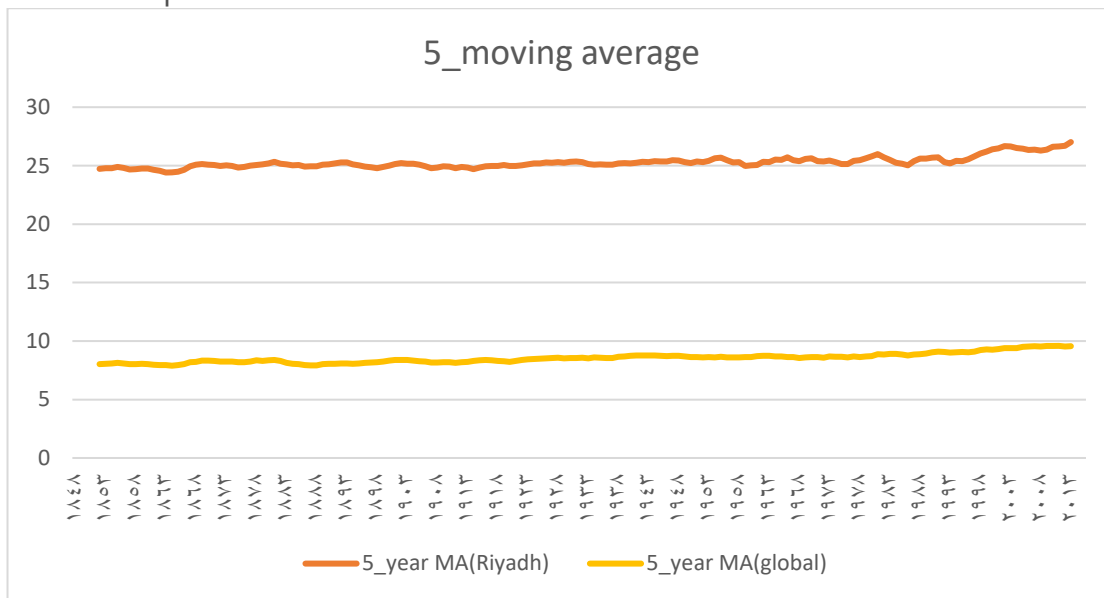
- **The observations** about the similarities and differences between the world averages and Riyadh averages, as well as overall trends.

  - Riyadh is hotter on average compared to the global average.
  - The overall trend looks like is the world getting hotter.
- The trend shows temperatures increased over the last few hundred years.
- The average rate of temperature has increased since 1998.