



Nanodegree Program
Data Analyst Course
Project 1

Steeps to Extract the Data:

- 1- Accessing the database and get Riyadh city average temperature.

```
select year, avg_temp from city_data where city = 'Riyadh' and avg_temp is not null
```

- 2- Accessing the database and get the global cities average temperature.

```
select * from global_data
```

- 3- Extracting the data into CSV files then merge into one excel sheet.

- 4- Calculating the moving average for temperature.

- 5- Visualizing by line chart graph.

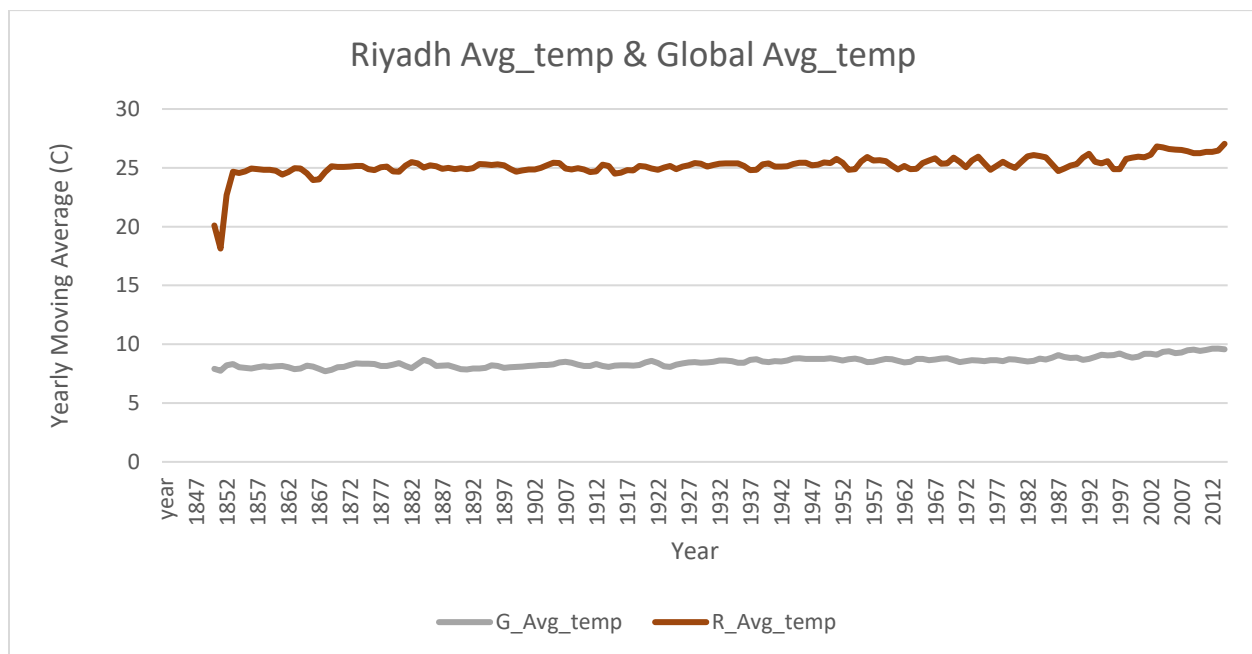
Tool:

Microsoft Excel

Moving Average:

I have used 3 as a moving average to observe the differences over years clearly.

Line Chart:



The Observations:

- Riyadh average temperature in 1851 was the most decreased (18C) and keep increase for the next 4 years into becoming 24C in 1854.
- The highest average temperature in Global countries was 8.5C in 1885 whereas in Riyadh almost 27C in 2005 which means Riyadh city is hotter.
- Global average temperature more stable when comparing with Riyadh average temperature over those years.
- The line chart indicates an increase in average temperature value in which means hotter everywhere in the coming years.