

Project 1

Data Analysis course

SQL queries used to extract the data

- First query used to check the Saudi Arabia exciting cities in the database

```
select city from city_list where country='Saudi Arabia'
```

- Seconded Query is to select all Riyadh data

```
select year,avg_temp from city_data where city='Riyadh'
```

- Third query is to select the global data

```
select year,avg_temp from global_data
```

Then I have exported the CSV and merge the two files.

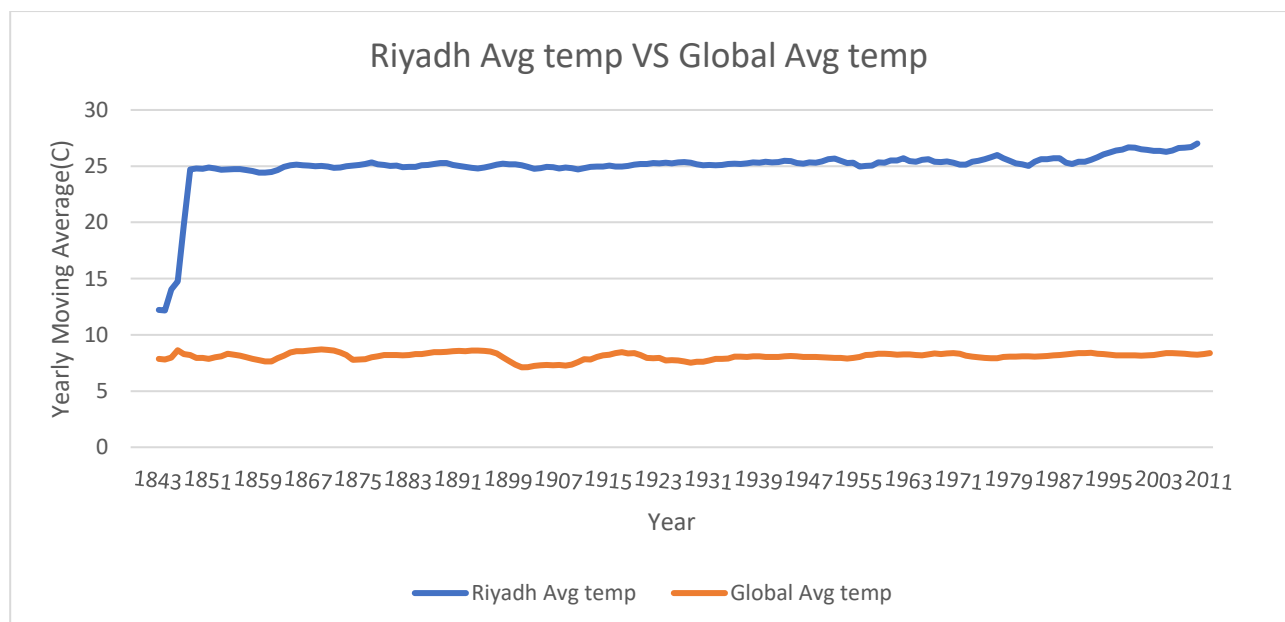
Tool used

Microsoft Excel

Moving average used

I have used 5 as a moving average because I think it is a good interval and make the data more cleared to observe not smother.

Line chart after moving average



The observations

- Riyadh City on average is hotter compared to the global average for instance the line chart show us that in different years the average temperature of Riyadh city still more than average of the global.
- The change of global average temperature it is show a decrease in some years more than Riyadh. Like in the year 1900 the global was 8.52 and after 6 years it become 7.13 in 1906.
- The line chart indicate that over the years the average temperature in both global and Riyadh city increase so the world is getting hotter each year.
- The average temperature in global has little increase over years and then a decrease for example in 2006 the global average was a 8.21 and in 2009 the average temperature was 8.37 and that show a increase but in 2012 the average temperature was a 8.27 which is show a little decrease.