# Explore Weather Trends
# Data Analyst Nanodegree Project #1

## 1. Extract Data from Database:

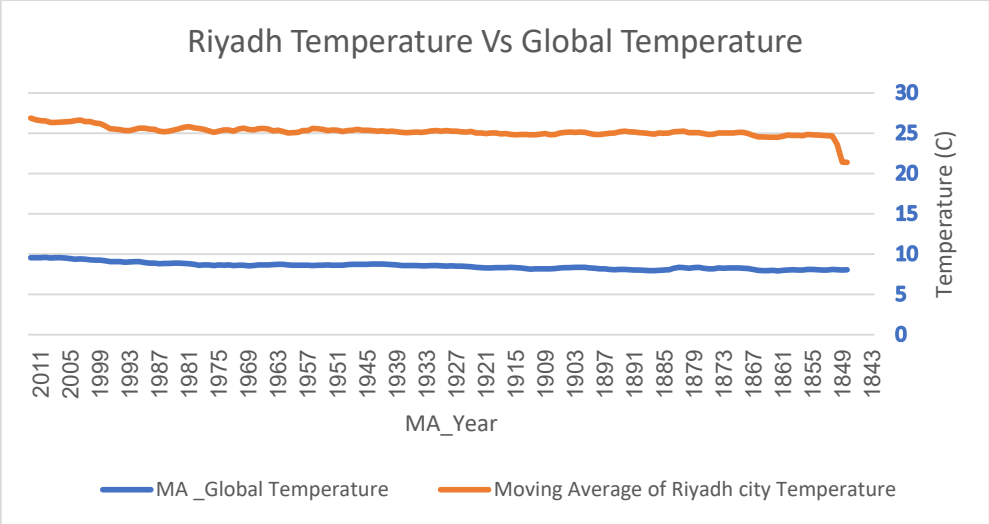
I used SQL query to extract the data.

```
SELECT city_data.avg_temp as
city_avg_temp,global_data.avg_temp as
global_avg_temp,global_data.year

FROM global_data  join city_data  ON

global_data.year=city_data.year  WHERE city='Riyadh'

AND country='Saudi Arabia'
```

## 2. Data Visualization:

I used the excel to calculate the moving average by use average function, for example I calculated global moving average based on global average temperature.

For year 1848 I toke the global average of this 7 last years (8.17,7.65,7.85,8.55,8.09,7.98) / 7=8.04833.  I used average function of 7 years.




## 3. Data Visualization:

1-The average temperature in Riyadh is higher then global average by 15C.

2-Over the world the temperature from 1849 to 2000 was increasing from 6 or 7 to 10 degrees.

3- in 1999 to 2011 the temperature was increasing in Riyadh temperature

4-In MA of Riyadh the temperature in 1849 was decreasing.