Project: Explore Weather Trends

- **Extract the data form the database.**
    - Write a SQL query to extract the city level data. Export to CSV.
    - Write a SQL query to extract the global data. Export to CSV.

Solution:

- ✓ Query to extract city level data:

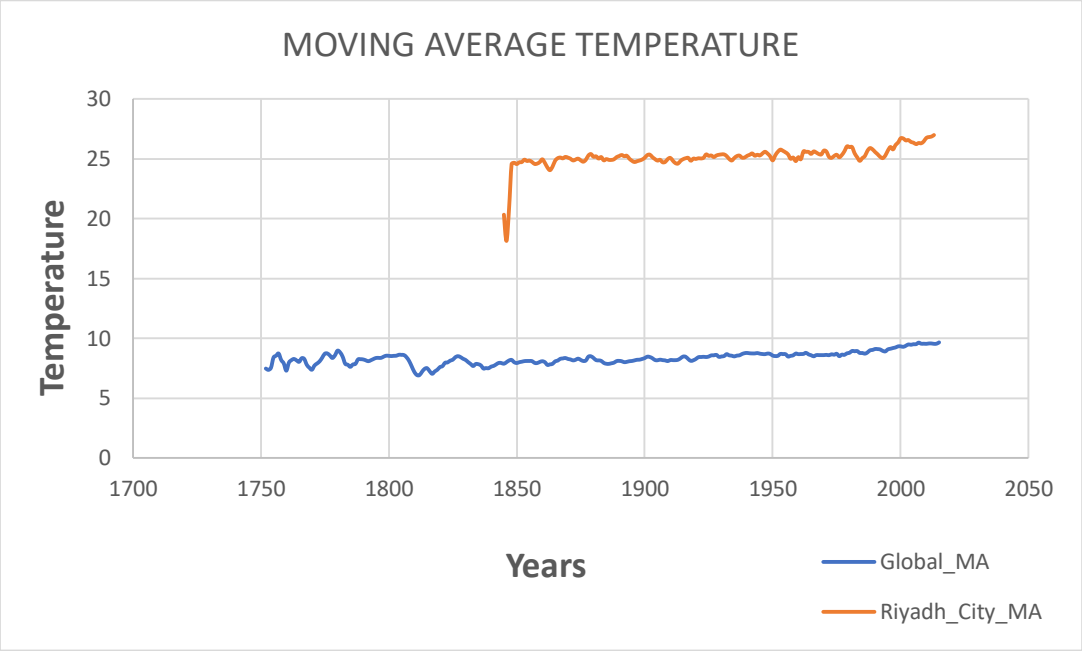
```
SELECT *
FROM city_data
WHERE country = 'Saudi Arabia' And city = 'Riyadh';
```

- ✓ Query to extract global data:

```
SELECT *
FROM global_data;
```

- **Open up the CSV.**
  Download the data based on filtering queries on city_data and global_data databases in Excel format in local computer.

- **Create a line chart.**
  Since moving average are to be used to compare the city temperature with the global temperature, Average () function were used to calculate the results.
  Average were according to every 3 years.
  These values were saved in columns named ‘Riyadh_City_MA’ and ‘Global_MA’ in the file.



- **Observations**

1. Riyadh city observed to have temperature greater than the global average as its weather hotter as it is near the desert.

2. Changes in Riyadh's temperature in comparison with global temperatures look consistently. In year by year comparison, the raise is steadily and the data points appear to be moved in similar pattern.

3. Both Riyadh city and global temperatures show an upward trend. While lows and highs are clearly visible, the line graph is clearly rise in consistent way in both datasets.

4. In the initial period, the Riyadh city data shows extreme jumps in the temperature while the global temperatures rise slower. This point of disparity is worth to look at.