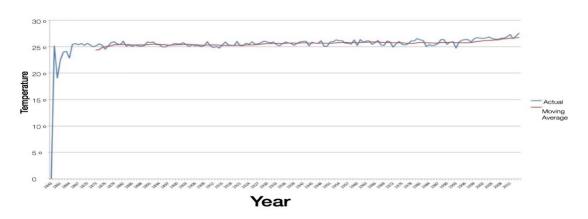
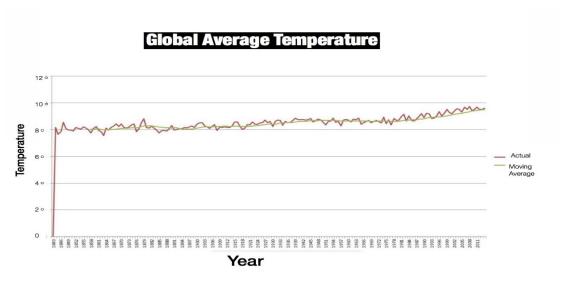
Explore Weather Trends – Project

Mecca Average Temperature





- 1 -We can clearly see that Mecca is around 25 temperature and hotter than the global average temperature which is around 9.
- 2 Both, the global average temperature and Mecca average temperature, are increasing during the years.
- 3 We can see in the global average temperature after the year 1978 the temperature is increasing faster than the years before.
- 4 Mecca average temperature is higher, but increasing slower than the global average temperature.

The SQL queries used to extract the data

#1 Query 1:

SELECT year, city, avg_temp

FROM city_data

WHERE city = 'Mecca' AND (year >= 1861 OR year <= 1845);

#2 Query 2:

SELECT year, avg_temp

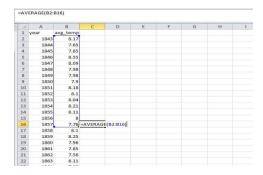
FROM global_data

WHERE year >= 1843 AND year <= 2013;

The steps:

- 1 First, I wrote sql queries to extract the data, downloaded the csv files.
- 2 Used Excel to calculate the moving average for each 15 years.

"Moving Average=(the sum of the data/the number of the data)". Below a screenshot on how I calculated the MA using excel.



- For the line chart, there are no missing data at the beginning of the curves, but the moving average start from the 15th year.
- 3 Did the visualization using line charts.