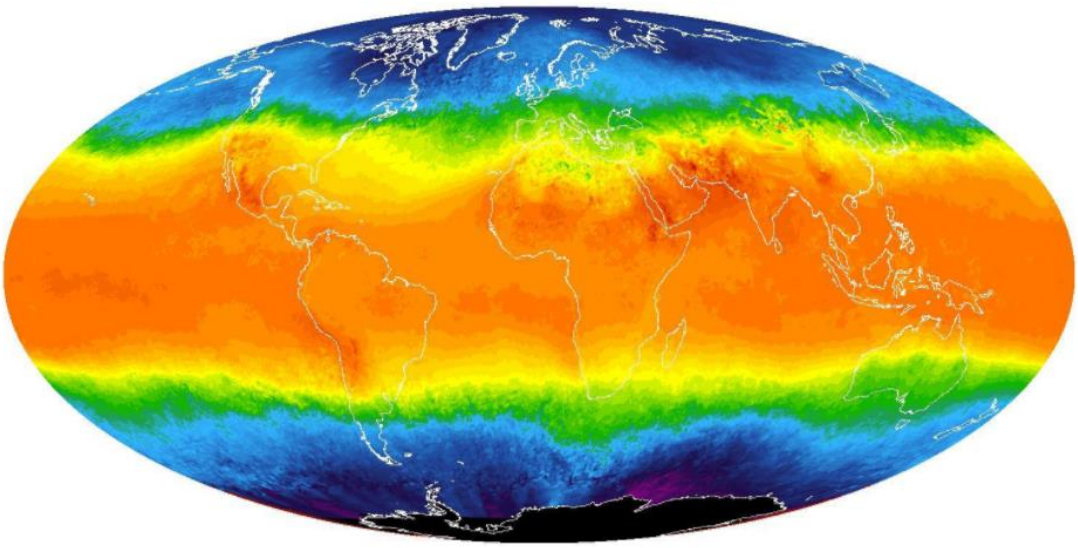
Data Analytics Nano-Degree Project #1:

Explore Weather Trend.



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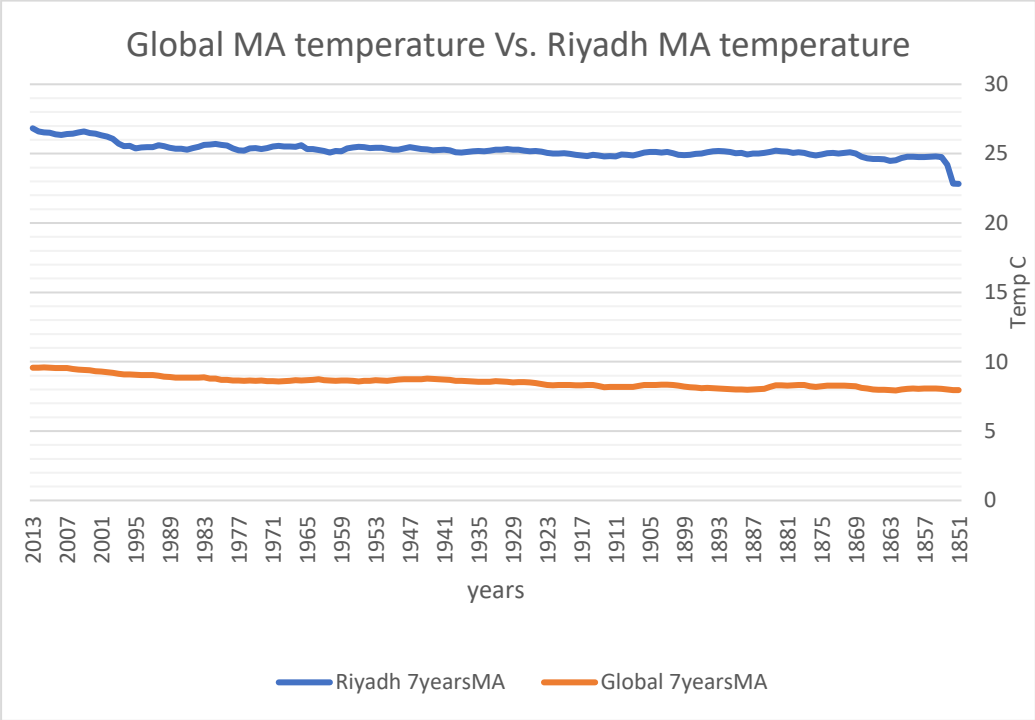
This project is about analyzing and comparing local temperatures and Global temperatures trends.

Outline of Steps:

1. At the first I extracted and exported data from a database in workspace using SQL queries
   - SELECT * from city_data
   - WHERE city= 'Riyadh'.
     This query is used to get the local temperatures.
   - SELECT * from global_data.
     and this query is used to get the global temperatures.

2. **Calculate the** Moving Average:
   I download the data in my device CSV files and analysis by using excel there was three years missing value in Riyadh average temperature between 1845 and 1848 so I decided to remove it.

3. Data was smoothed to better display the visualization of data using 7 years MA calculate by AVERAGE () function, then copied the same process to the cells.



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The observations:

1. Riyadh MA has increased slightly from 1851-1857 at the beginning and the global has the same pattern
2. Riyadh MA from 1953-1995 has fluctuate line which is the global steady .
3. The global average temperatures is between 8-10 degree and Riyadh Average Temperature about 23 C

4. The overall trends lines ,Riyadh is getting hotter than the global temperature .