First Project

“Explore Weather Trends”

Course: Data analysis.

Name: Dalal Alwalmany.

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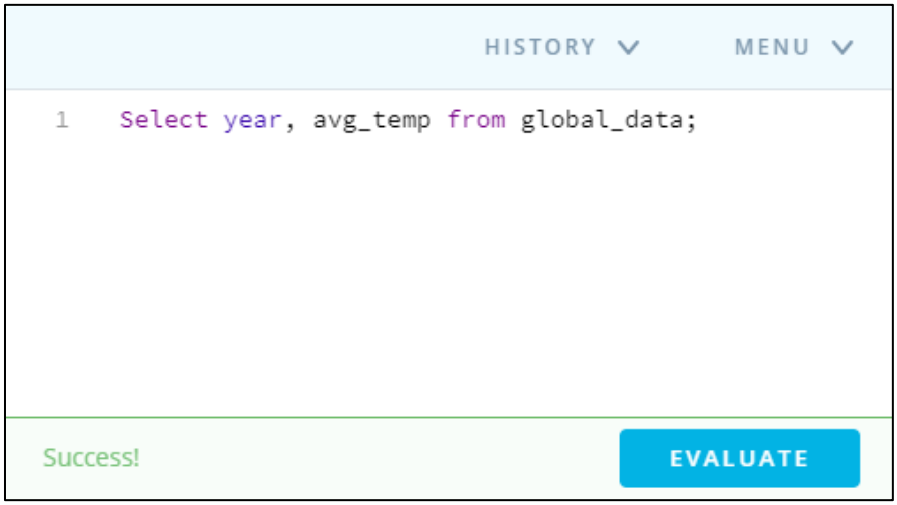
1- Extracting Data.

In this project I used two **SQL** queries to extracting data from database:

- Select city, year, avg_temp from city_data where city = 'Riyadh';

  I choose (Riyadh) because it's the capital city in KSA, then I want to find the moving average temperature starting from 1854 until 2013 between capital city and global.

- Select year, avg_temp from global_data;

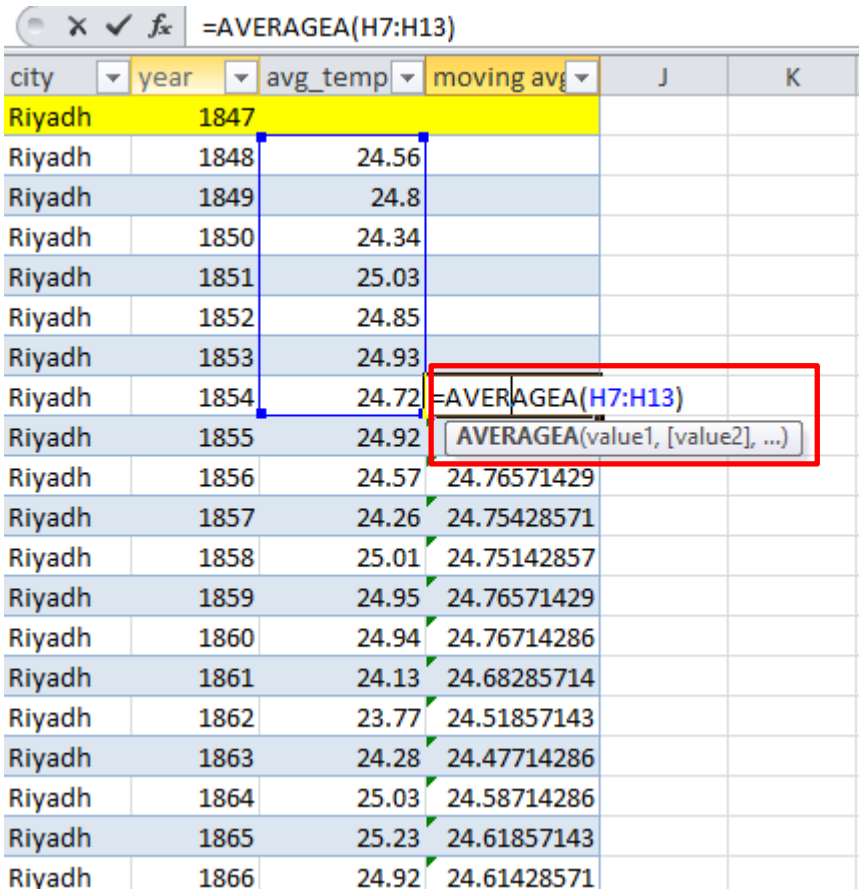


2- Calculating Moving Average.

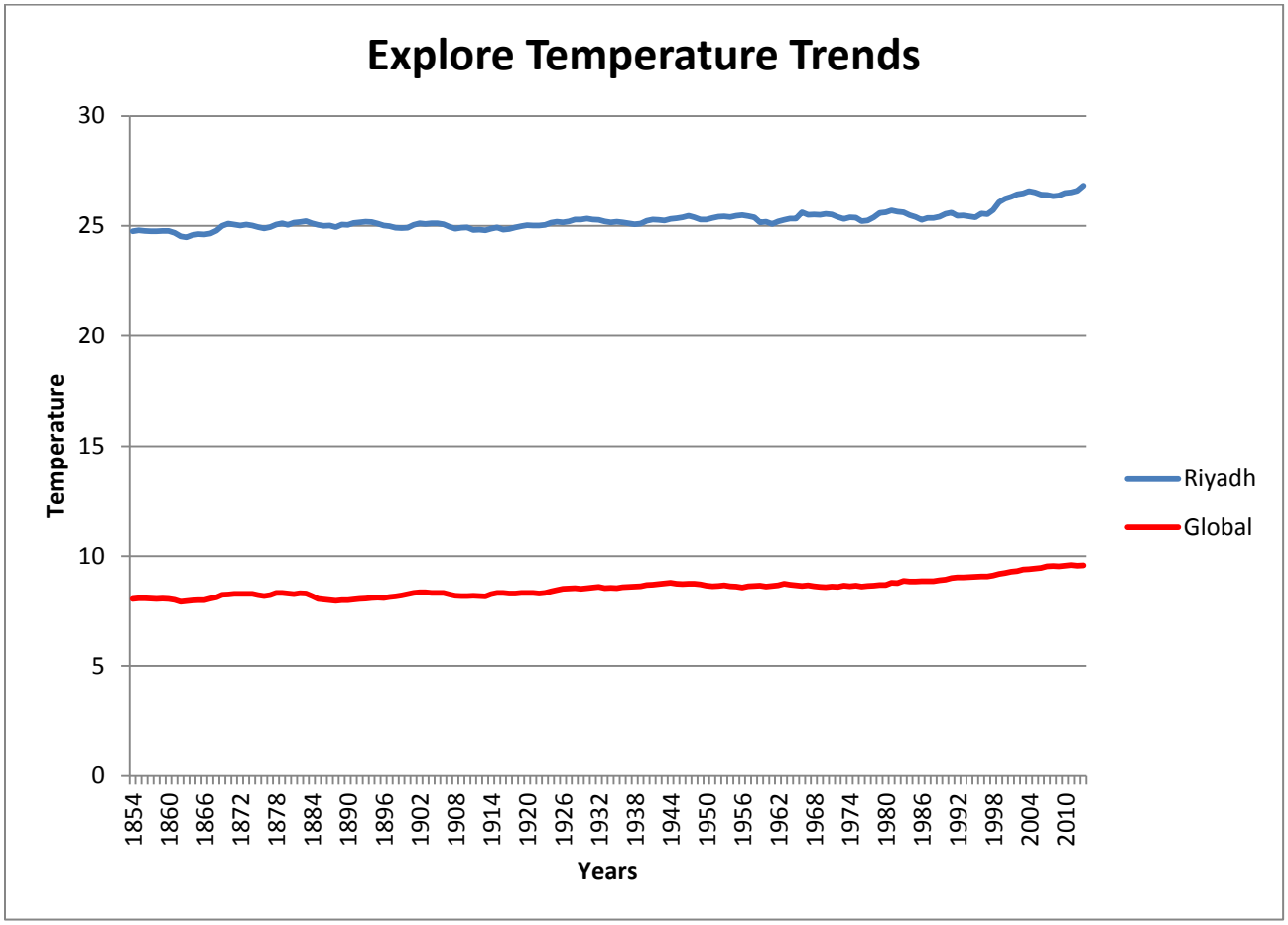
Before I start to find moving average I have to clean up some empty cells in Riyadh data..

I decided to find the moving average for every three week, by using average function in **Excel** starting with 1854 and so on.

Example of what I did;



3- Data Visualization.



Blue line: Riyadh moving average from 1854 to 2013

Red line: Global moving average for Riyadh from 1854 to 2013

4- Observations.

- I found that Riyadh's average temperature was bigger (hotter) than global average temperature over the years.
- I found also that Riyadh temperature is quit constant until 1998.
- Also the last few years both Riyadh's and global temperatures become higher we can see from 1998 to 2013.
- Global temperature line is getting hotter (to the up) over the years in almost constant changes.