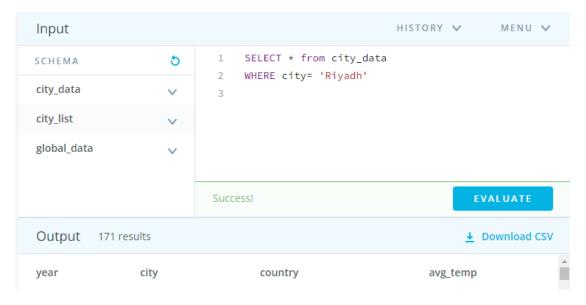
Project #1

Explore Weather Trends

BY: Khadijah Bandar Alharbi

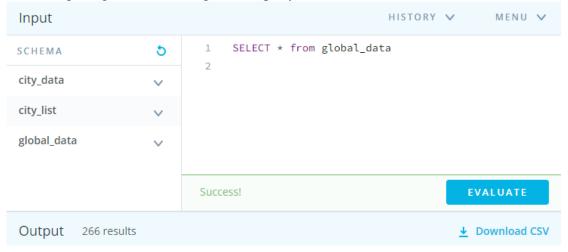
Step 1:

Extracting the city level data using a SQL query.



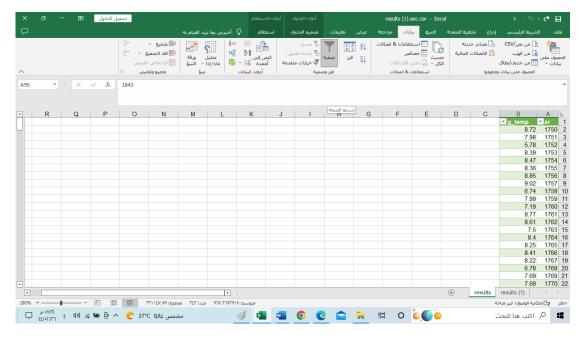
Step 2:

Extracting the global data using a SQL query.



Step 3:

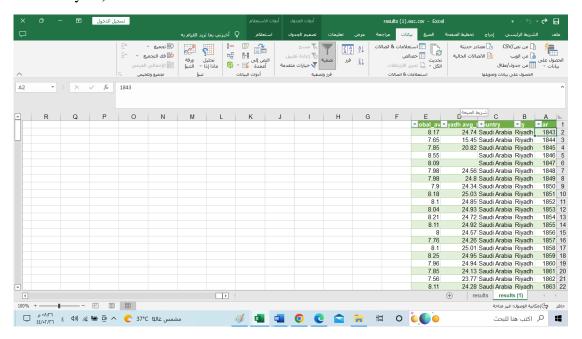
I was used Excel to open the CSV, then I extract the information from global_data database



Step 4:

Select and copy avg_temp colome from the global_data , then paste in Riyad database.

(The stared year in Riyadh was in 1843, so the copy data from the avg_temp was it in the same year).



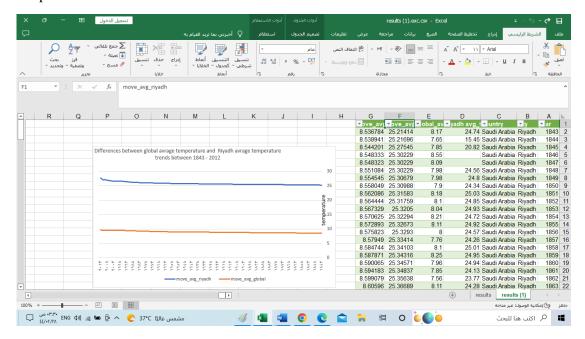
Step 5: Moving Averages

Add a new field move_avg_riyadh to calculate the average of Riyadh city

Add a new field move_avg_global to calculate the average of global temperatures

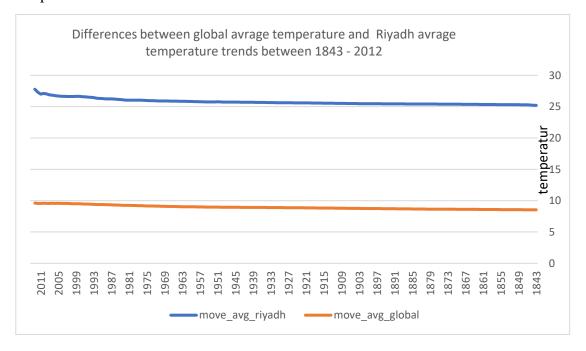
Appling the function AVERAGE(D2:D172) to calculate the moving average of Riyadh city

Appling the function =AVERAGE(E2:E172) to calculate the moving average of global temperatures



Step 6:

create a line chart that describe average between Riyadh temperatures and the global temperatures.



Step 7: Observations

According to the line chart:

- 1- The Riyadh city is hotter on average than global average and through time, the difference has not been constant.
- 2- The change in Riyadh city temperatures over time was between 24 to 27.68 trad compare with the global average was between 7 to 9.61 trad.
- 3- The last 10 years the change in Riyadh temperatures is increased to high.
- 4- The overall trend of the world is increasing in temperatures. Additionally, the general pattern of temperature change appears to be changing.

Reference:

https://www.youtube.com/watch?v=4gaymR1vrEE&t=19s

https://www.youtube.com/watch?v=mC1ARrtkObc&t=29s