

# - Explore Weather Trends - Jawaher Y. AlDamegh

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### The goal of this project is:

Create a visualization and prepare a write up describing the similarities and differences between global temperature trends and temperature trends in Riyadh.<sup>1</sup>

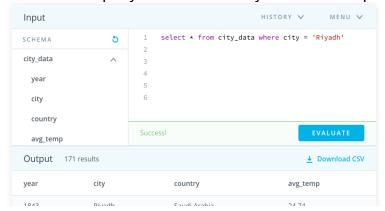
#### **Tool used:**

SQL and Excel.

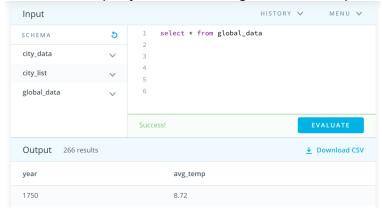
#### 1- Extract the data

I extract the data from the database using some SQL queries:

A. Write a SQL query to extract the city level data. Export to CSV.



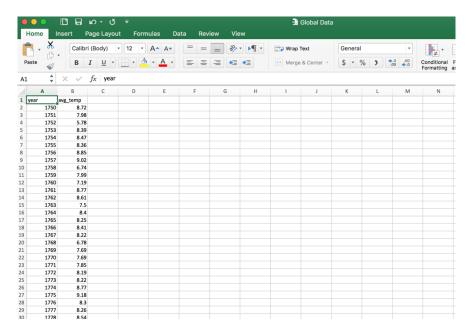
B. Write a SQL query to extract the global data. Export to CSV.



<sup>&</sup>lt;sup>1</sup> From: <a href="https://classroom.udacity.com/nanodegrees/nd002-mena-connect/parts/cdcca0c9-b590-4137-ba32-ecd722286c30/modules/151259a5-f561-4be1-bc40-cc8a02ba0f7a/lessons/cbe28638-a908-4125-85aa-bd026dc1b41c/concepts/7792fbaa-7f3d-46f1-b6fb-e5f65ce35796">https://classroom.udacity.com/nanodegrees/nd002-mena-connect/parts/cdcca0c9-b590-4137-ba32-ecd722286c30/modules/151259a5-f561-4be1-bc40-cc8a02ba0f7a/lessons/cbe28638-a908-4125-85aa-bd026dc1b41c/concepts/7792fbaa-7f3d-46f1-b6fb-e5f65ce35796</a>

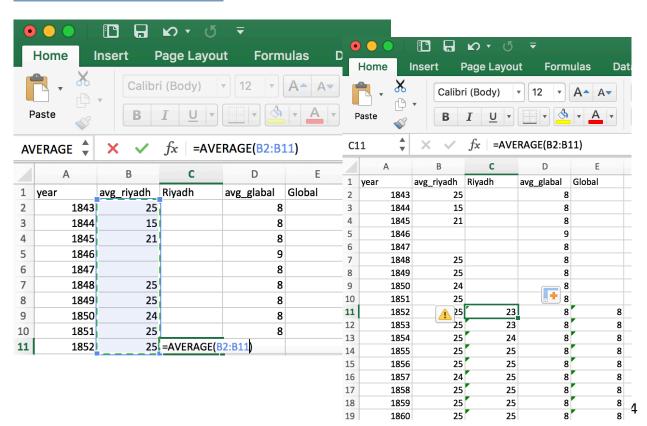
#### 2- Open up the CSV

I download the files (City and Global) data that I will work on it, and open it to start working in this files by using excel tool:



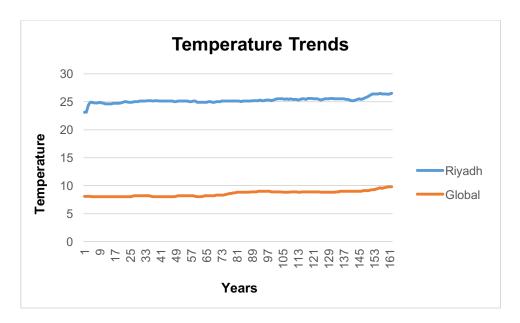
I merged the two sheets in one file and start working on (Moving Average).

#### 3- Create a line chart



then I apply the (Moving Average) to all down cells.

**Now,** we compare the city's temperatures with the global temperatures by creating a line chart:



As we can see in the above chart the vertical value shows the temperatures and the horizontal value shows the average of 9-Years.

#### **4- Observations**

#### As shown in the chart above:

- 1- Riyadh compared with the global temperature it always hotter.
- 2- In general, the temperatures are rising due to the global warming.
- 3- The temperature in both Global and Riyadh becoming hotter over time.
- 4- Riyadh temperature and Global temperature are change a little over time (there are no significant change).
- 5- A sadden increase in Riyadh temperature emerge in the first 9 years.
- 6- Riyadh higher than the Global average in around a 150%.