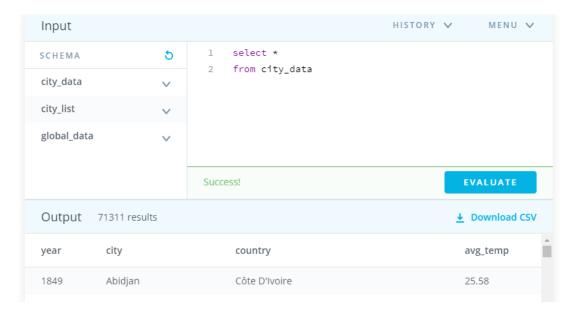
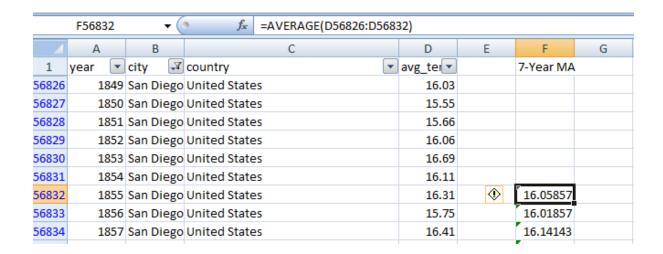
Outline:

1. I used SQL to extract city_list, city_data, and global_data from database and export them as CSV files. In order to do this, I used the SQL Workspace and type Select * from City_data and then I clicked "Evaluate" to extract the data. Then, I clicked "Download CSV" to export data as CSV file. I did the same thing for global data and city_list.

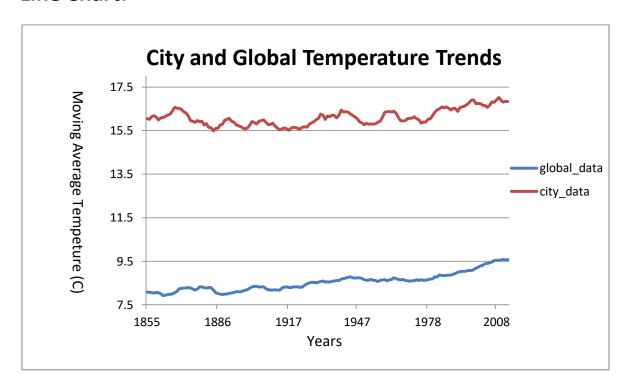


- 2. I used Excel to open up CSV files. I filtered out city_data and selected San Diego as my city.
- 3. I created new column called 7-day Ma and went down to the seventh year (1855) in city_data. Then, I used the AVERAGE() function to calculate the average temperature for first seven year and drag the formula down to the last cell. I did the same thing in global_data file.



- 3. For global_data, I only chose data from year 1849 to 2013 since city_data doesn't have data prior 1849. Then, I inserted a line chart and selected city average temperature , global average temperature and year as my data.
- 4.To make the line chart more observable, I adjusted the vertical axis, which changed the minimum to 7.5, maximum to 17.5, and major unit to 2.0. I also considered to change the horizontal axis to every 31 year. We can see that the temperature in san Diego went up and down almost every 30 year.

Line Chart:



Observations:

- 1.My city is hotter on average compared to the global average. The city average temperatures are two times higher than global average temperatures. The difference has been consistent from overtime.
- 2. My city's average temperatures went up and down over time. However, the global average is gradually increasing and increases smoothly.
- 3. City average temperature has increased around 10% from lowest average to highest average. global average temperature has increased around 20% from lowest average to highest average.

hundred years. The world is getting hotter and hotter.		

4. The global and city average temperature are both consistently increasing over the last few