DATA ANALYST NANODEGREE - Udacity PROJECT: EXPLORE WEATHER TRENDS



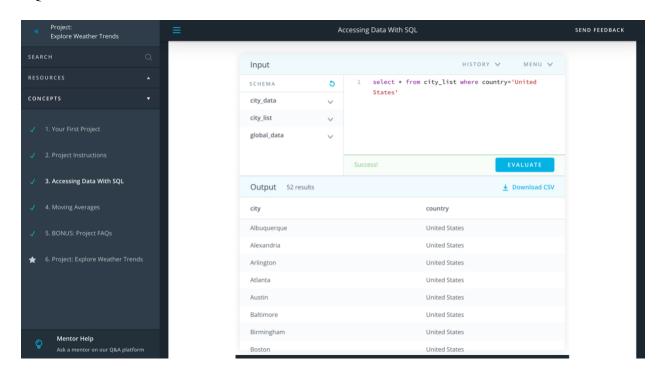
Jahnavi Pinnamraju Date: 02/15/2022

Summary

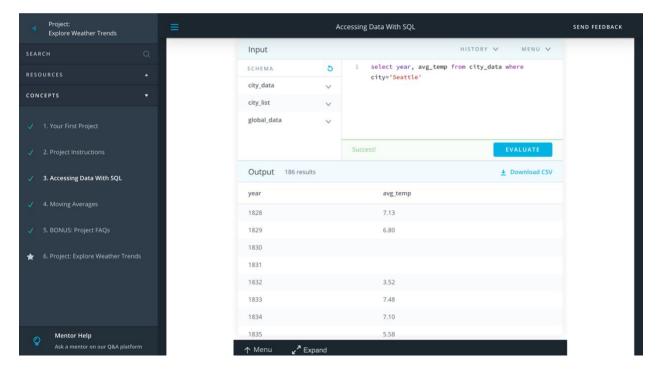
In this project, I will analyze the global and local weather data and compare the weather trends of overall global temperature to Seattle.

(i) Extracting data from the database

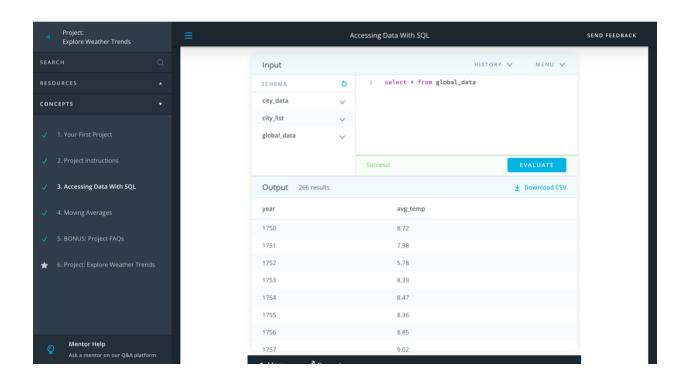
SQL commands were used to extract the data.



(ii) Extracting Seattle data



(iii) Extracting the average global temperature

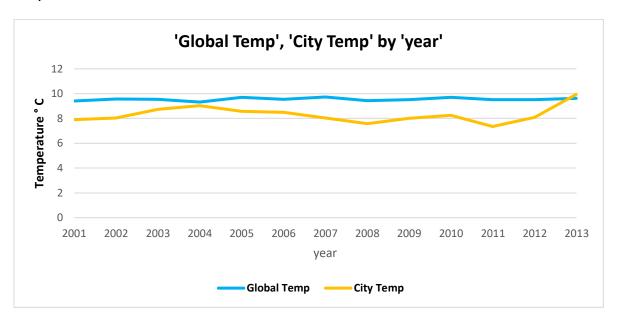


Data Analysis:

The obtained data was downloaded as CSV files. And the data analysis was performed in the MS excel. 10 year Moving Average was calculated in the Excel. I used a formula (=AVERAGE (A2:A11)) to get the MA of 10 years. The global temperature and city temperature data from 2001 to 2013 was considered.

Line Chart:

A line chart was created with excel that compares the global temperatures with Seattle temperature.



Observations:

From the line chart we can interpret that:

- 1.From 2001 to 2012, Seattle's city temperature is less than the global temperature. It is not consistent. In 2013 the city temperature was raised from 8 to 9.9 which is more than the global temperature.
- 2. Seattle's temperature is rising over time. From the above line chart, we can observe that the temperature was fluctuating. The temperature was raised from 8.7 to 9 in 2004. The temperature was less during 2011 which is 7.3.
- 3. When compared to Seattle city's temperature the global temperature is less fluctuating. The minimum temperature observed was 9.32 in 2004 and the maximum temperature observed was 9.73 in 2007.
- 4. Overall trend in the graph looks like the world is getting hotter.
- 5. From the graph, the global temperature is more consistent when compared to Seattle city temperature.