UDACITY

Course: Data Analyst

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Project:

Exploring Weather Trends

First, I extract the Data for my city Riyadh and global by SQL Query, please see the below:

- ○ **SELECT * FROM city_data**
  WHERE city='Riyadh'
  <u>* By this Query I extract all the temperatures for Riyadh</u>

- ○ **SELECT * FROM global_data**
 <u>* By this Query I extract all the temperatures for global</u>

Second, I downloaded the Data in CVS format, I saw there is different between the dates, in my city from 1843 till 2013 and in global from 1750 till 2015, I make the date in global from 1843 till 2013 same with my city dates.

Third, I used Excel for this project.

Fourth, I calculate moving average by calculate 7 cells and divided by 7 and I apply for all cells, Also, I found another why which is already in Excel tools, please see the below photo.

7-years moving average temperature comparison, Global Vs Riyadh
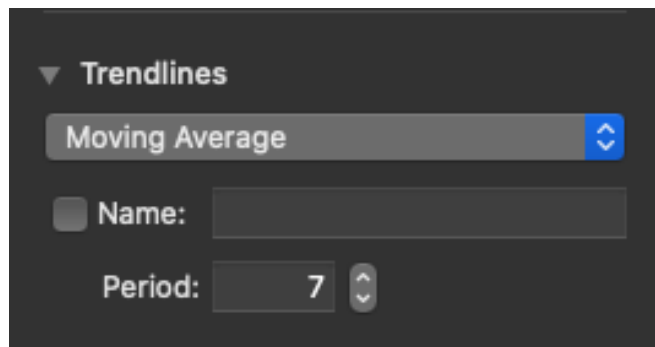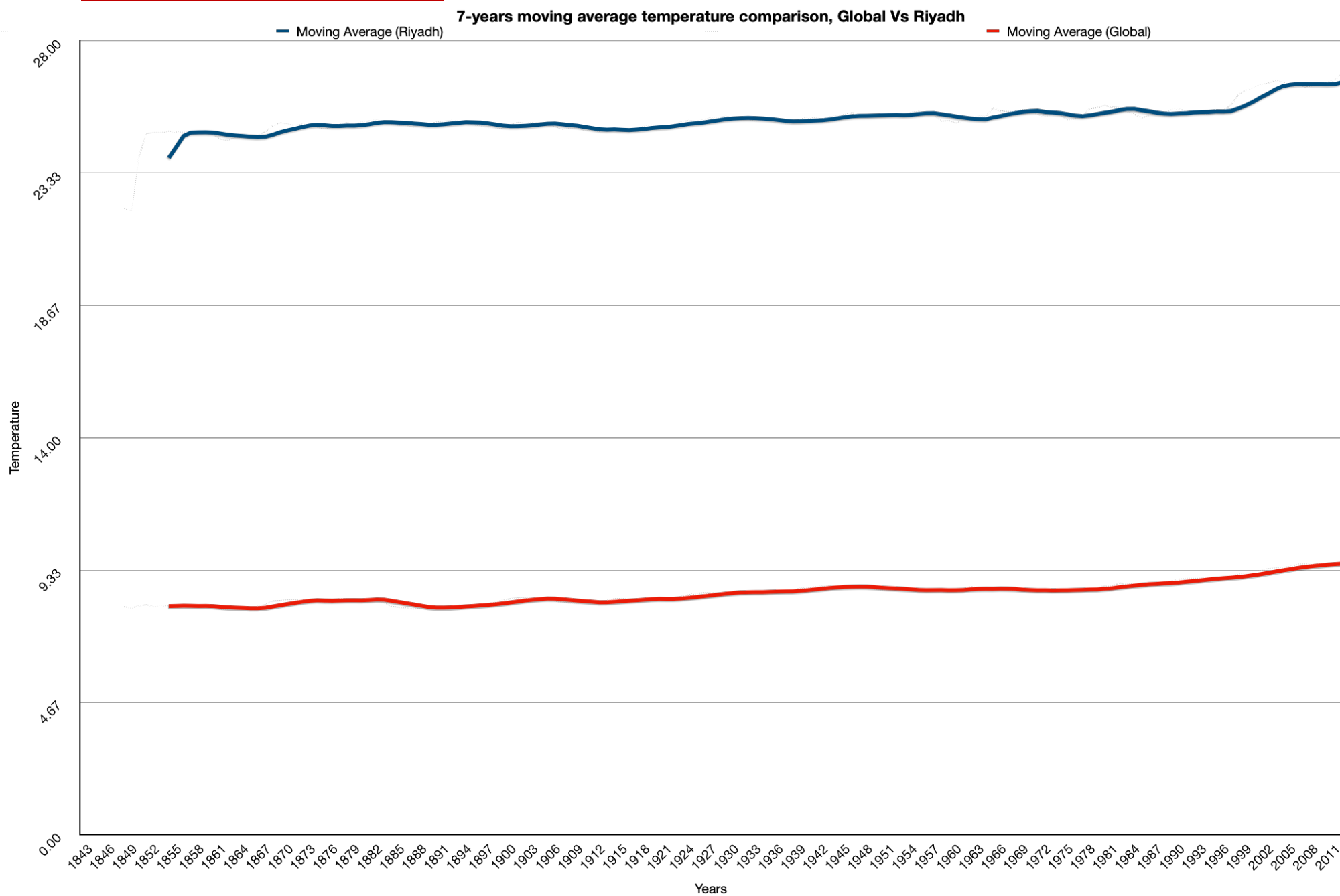
Observations:

- The temperature in Riyadh is hotter than the global temperature.

- There is a difference in the time period **1843-1899** around 14 °C between global and Riyadh.

- In the middle of the years in the time period **1900-1955** as we can see the global temperature has been in the range of 8 °C. Whereas Riyadh has been hotter, in the range of 24 °C and 25°C at the same time period. this means that the temperature is stable and close to the temperature at the beginning of the years.

- In recent years, we also notice that there has been a rise in the global temperature has been in the range of 8 °C and 9 °C in the time period **1956-2013**. Whereas Riyadh has been hotter, in the range of 25 °C and 26 °C at the same time period.