EXPLORE WEATHER TRENDS

Moving Average

APRIL 27, 2020

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Steps to Find and Calculating the data

Step 1: Find and download the data

1. At the beginning I had to find my country and discover if my city included or not from **city_list** table so I used “**select * from city_list where country = 'Saudi Arabia’**”
2. I found **Riyadh city** then I searched from the **city_list** table to find the averages temperatures using “**Select year, avg_temp, city from city_data where city= 'Riyadh'**”
3. Finally, from **the global_data** table using query “**Select * from global_data**" and downloaded the data

Step 2: Calculating the data

1. Importing the two files to the Excel to do the calculation
2. Moving Average by 5 years
3. Creating a line chart to visualize the data

Observation the data

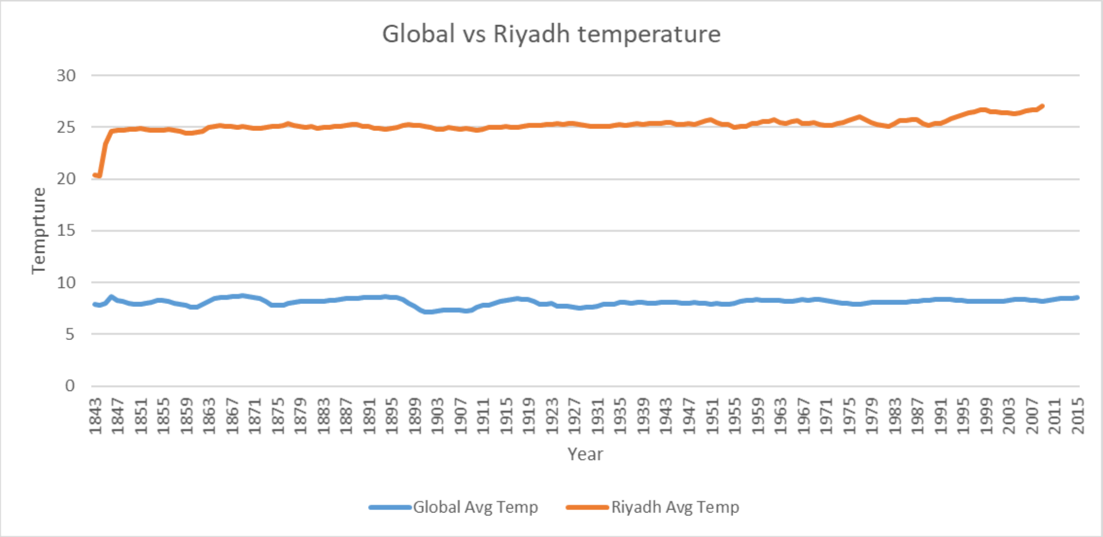

Figure 1 Global vs Riyadh temperature

1. The data has two years' messing values from 1846 to 1487 so, because of that, the chart shows the gap, in those two years the chart seems to like stable in 20.
2. The weather in my city on average is hotter than the global and it was consistent over time of years in 25.
3. The changes in my city over time compare to the changes in the global average it seems there is no change, the global has more changes over years at the beginning of the 18s until the beginning of the 19s. But, at the end of the 19s, my city had also changed and became hotter the global too.
4. The overall trend looks like my city and the global both are becoming hotter, especially in the last hundred years.