UDACITY

Nanodegree program

Data Analyst

Explore Weather Trends

Abdulrahman Alghaligah

June 3, 2021

Table of Contents

Outline:

The data has been taken from the database on Udacity's website, then I export that data to Google sheets, then I calculated the moving average by taking the average of the last 15 years average temperature. Observing the change of the average temperatures in the cells is my key consideration for visualize the trends.

Quires:

I used two quires to take the data from the database.

Query1:

```
1    select year, avg_temp from city_data where city='Riyadh'
```
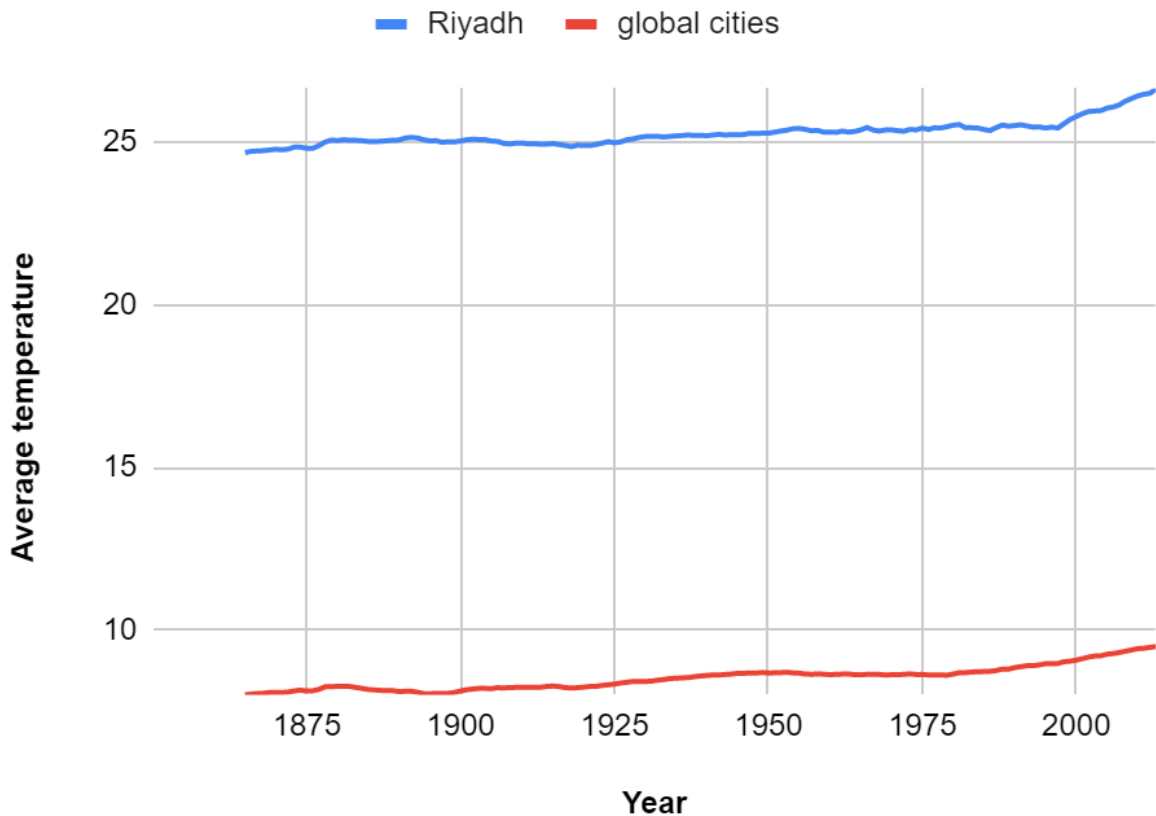
Query2:

```
1    select year, avg_temp from global_data
```

Chart:

In this section, I will provide the line chart that compares Riyadh's temperatures with global cities temperature. Here is the sheet link.

Weather trends chart

Observations:

1. Obviously from the charts Riyadh is hotter than global cities and the difference is consistent over all the years.
2. The trends shows that the climate is getting hotter in both my city and global cities.
3. Overall, the average temperature is constant in the first hundred years, where in the last hundred years the average started to rise, and this is a clear evidence of the greenhouse gases impact that cause climate change.
4. Humans can be considered one of the reasons of climate changing, burning coal and oil can cause more and more global warming, for example if we look at the history of cars it started to invent on 1886 and we can see in the chart there is a rising after this event not before.