Explore Weather Trends
First Data Analysis Nanodegree Project

Content

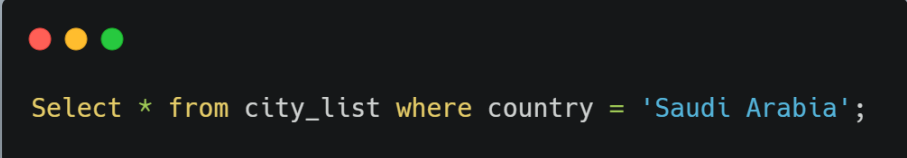## Contents

Exploring and extracting data

First step was exploring the dataset using SQL quires as shown below

- Here I was searching to the nearest city:

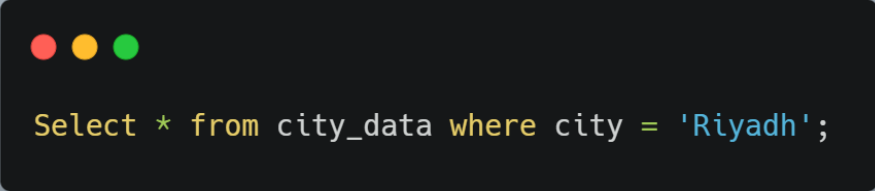```sql
Select * from city_list where country = 'Saudi Arabia';
```
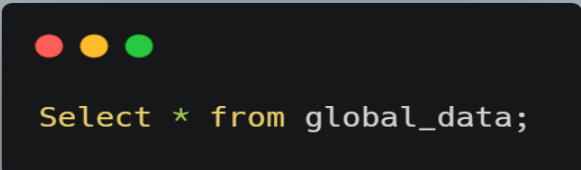
I found out that the nearest city to me is Riyadh.
Also, i make sure they have same column name before extracting data for Riyadh from city_data table using SQL

- Here I was extracting the details data for Riyadh:

```sql
Select * from city_data where city = 'Riyadh';
```

- Here I was extracting the details data for global:

```sql
Select * from global_data;
```

Cleaning and preparing data

- Second step was cleaning the data by deleting the null value using Excel
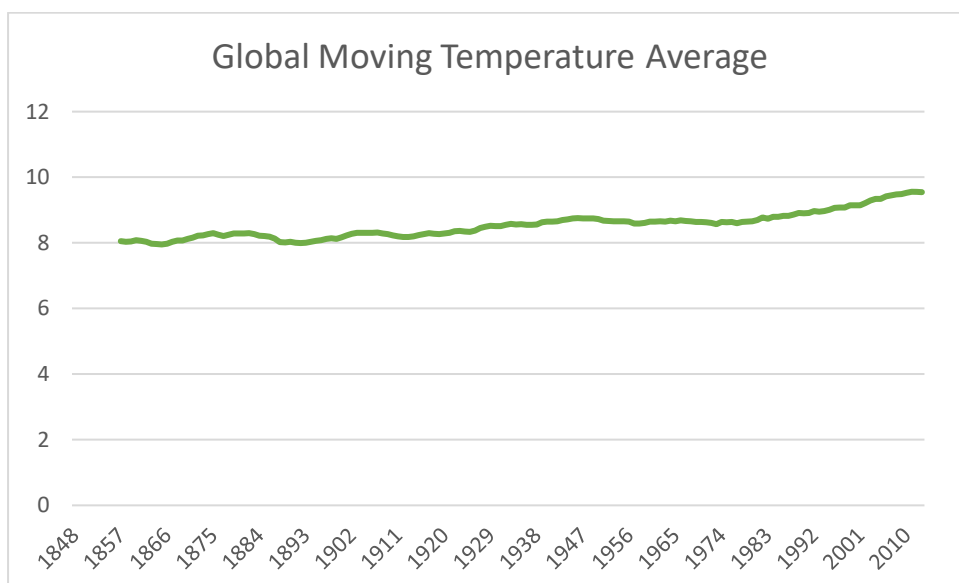- Third step was calculating the moving average for both Global & Riyadh using Average function on Excel (for each 9 years)
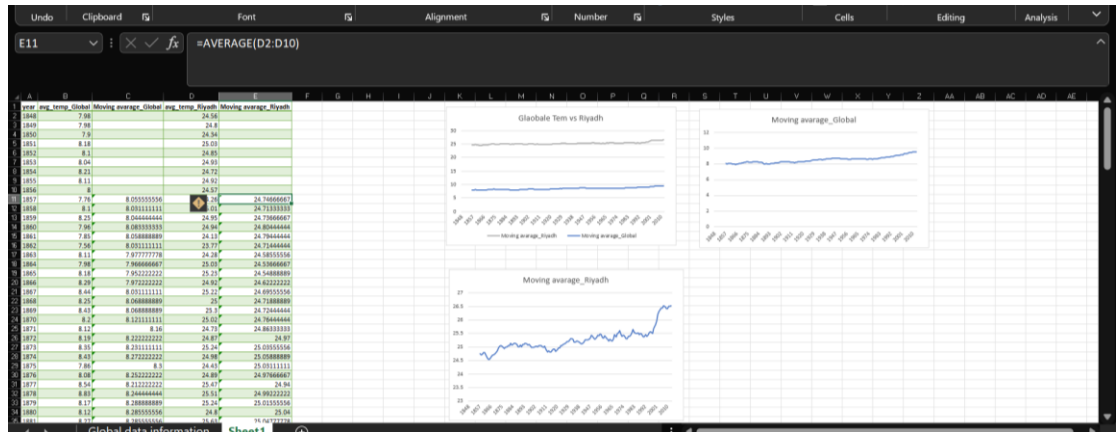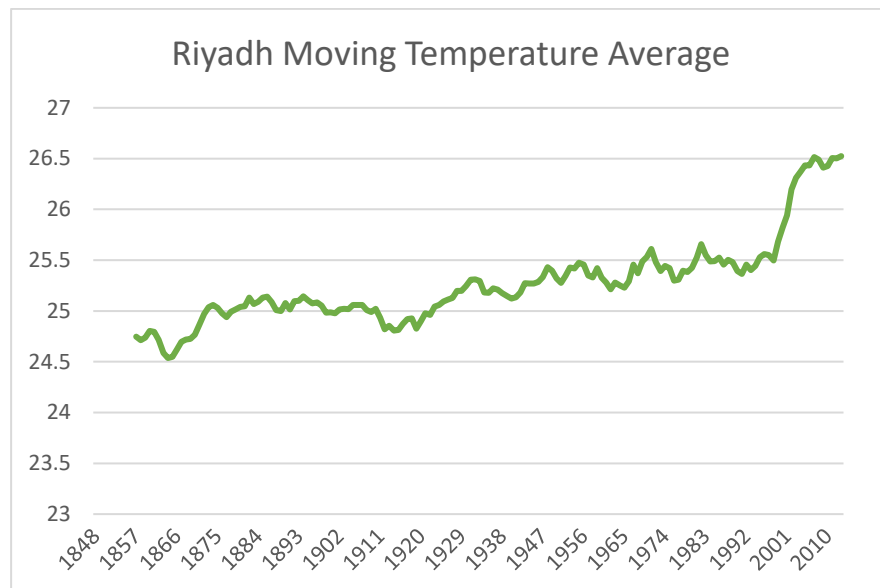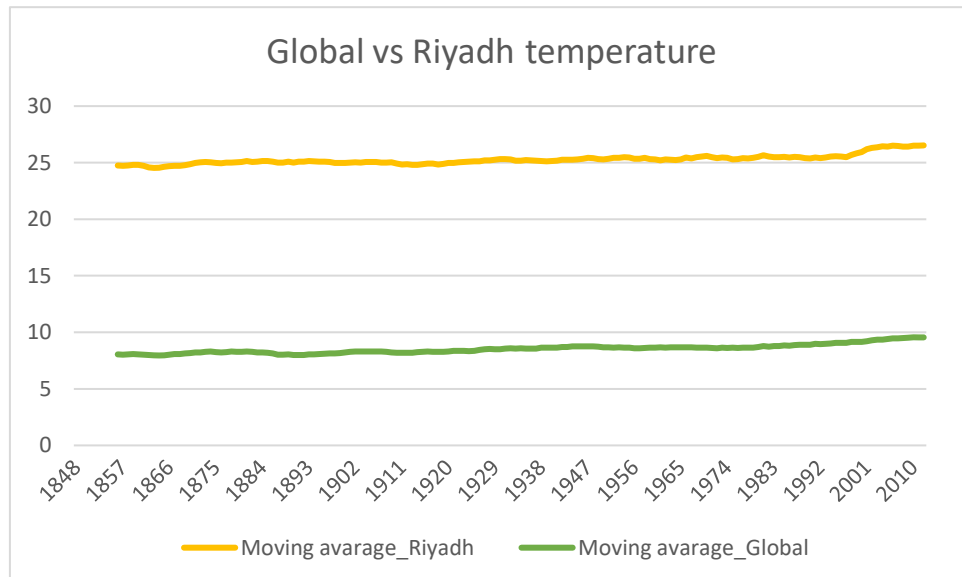

Visualizing data

- Fourth step was creating a 3 Line chart
  - ✓ One for the Global to help easily comparing with Riyadh city.

✓ Second for Riyadh to help easily comparing it with Global.

Riyadh Moving Temperature Average

✓ Third a comparison between the global and local temperature set across the years.

Global vs Riyadh temperature

Charts above have an axis with an interval of every 9 years so they can be easily understood.

Observations

- Over the past years, Riyadh's weather has been warmer than the global, and this trend is shown to continue.
- Since 1848, the average temperature in Riyadh has increased. It's started with 24.7.
- The average global temperature seems to be increasing over the period 1992-2010 which means the global weather tend to be wormer in the future.
- Global temperatures started at 8 and increased in a stable manner.