Exploring Weather Trends

Mohamed Alrabea | Data Analyst

In this project, local and global temperature data has been analyzed, and the temperature trends have been compared to overall global temperature trends.

I used the SQL to extract the data and excel to calculate the moving average and making the line chart.

Extracting the Data:

1. I checked which counters and cities are available in the database

```
SELECT*
    FROM city_data
```

2. I selected the local city from the database

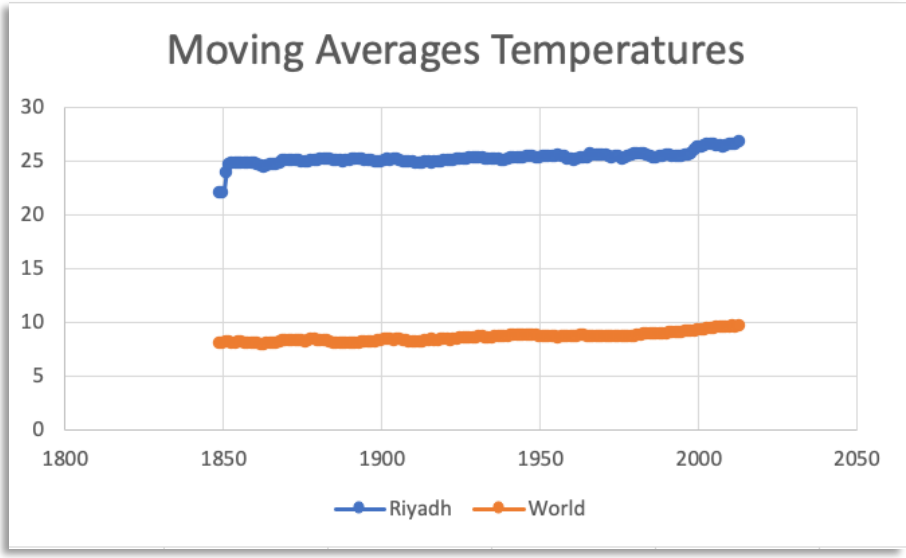
```
SELECT*
    FROM city_data
    WHERE city='Riyadh' AND country = 'Saudi Arabia';
```

3.

```
SELECT*
    FROM global_data;
```

Data Summary and Visualization:

I used Excel to calculate the moving average of 7 years by using the command =AVERAGE(cell2:cell8) and dragging down till the last value.
and I found that there was some missing data in local temperature



Observations:

Here are some similarities and differences between the global and local moving temperature

- both lines are volatile and display slow increase trend
- The graphs show increase in average temperature for both, and that means the earth is getting hotter
- The chart of Riyadh has a huge difference in the temperature and that means the local is hotter than the global average temperature.
- The Global moving average temperature is increasing faster than local.