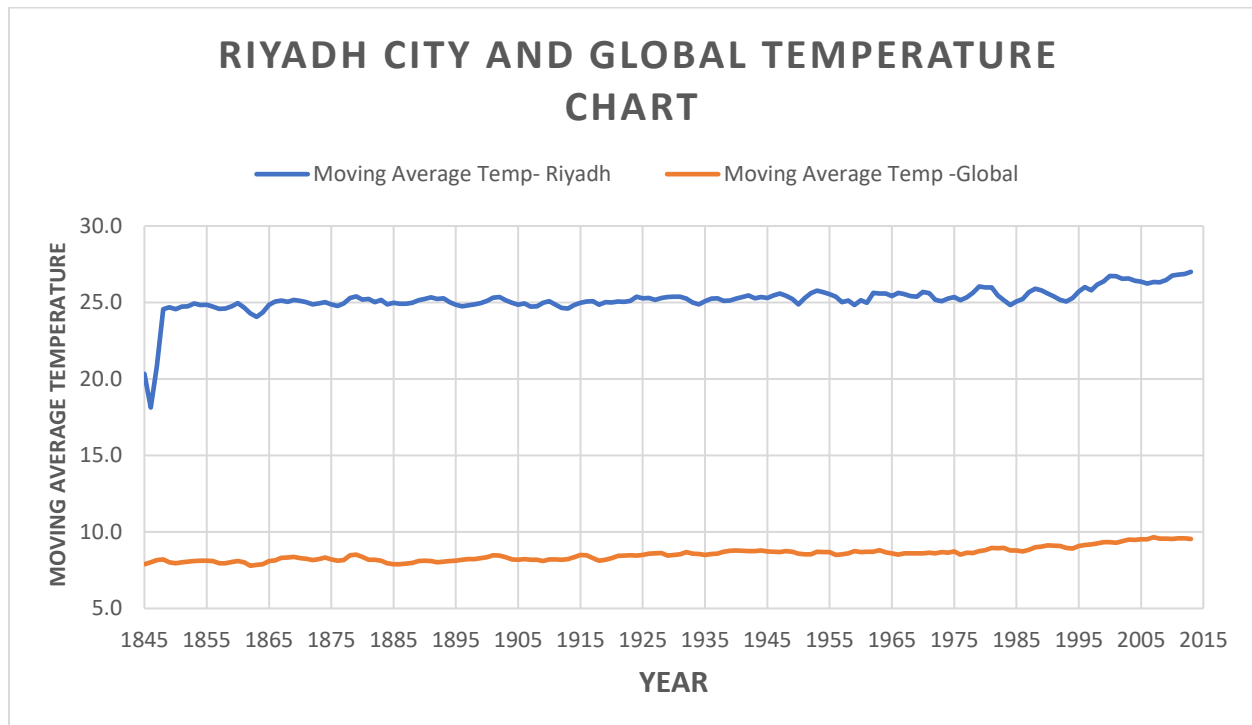**Bashair Altalhi**

First Project

4/29/2020

<div align="center">

Exploring Weather Trends

</div>

In this project, I have followed the next steps to arrange the data:

- Writing the SQL query to extract the data (included in appendix).
- Using Excel.
- Using a data analysis tool to calculate the moving average for three periods.

- The key considerations were the rang of moving average temperatures and find how data is distributed.

Observations:

The graph above contrasts the global average temperature and Riyadh city's average temperature. It shows a significant difference between the worldwide average and Riyadh city's average over time. In 1845, the average slightly dropped approximately to 17 ℃, which considered the lowest (coldest) temperature in the period 1845 to 2013 in Riyadh. Besides, the average temperature in Riyadh is hotter than the global average over the years. The global

average has remained below Riyadh city's average temperature from 1845 to 2013. Overall, the global average and Riyadh city's average have increased (hotter) overtime.

Appendix

```sql
--Global TemP
SELECT
year
,avg_temp
FROM
global_data


--City-list
SELECT
city
,country
FROM
city_list


--City-Data
SELECT
year
,city
,country
,avg_temp
FROM
city_data
WHERE
country LIKE 'Saudi Arabia'  AND
city LIKE  'Riyadh'
```