

Outline:

In this project, I am comparing the temperature of Riyadh, the capital city of Saudi Arabia, to the global temperature from the year of 1850 to 2013. To extract the data from the database, I query the database using SQL to view the list of the cities available then view the data of the temperature. After downloading the data needed, I used Excel to get the average and create the line chart. I used the function offered by excel to calculate a 7-day moving average.

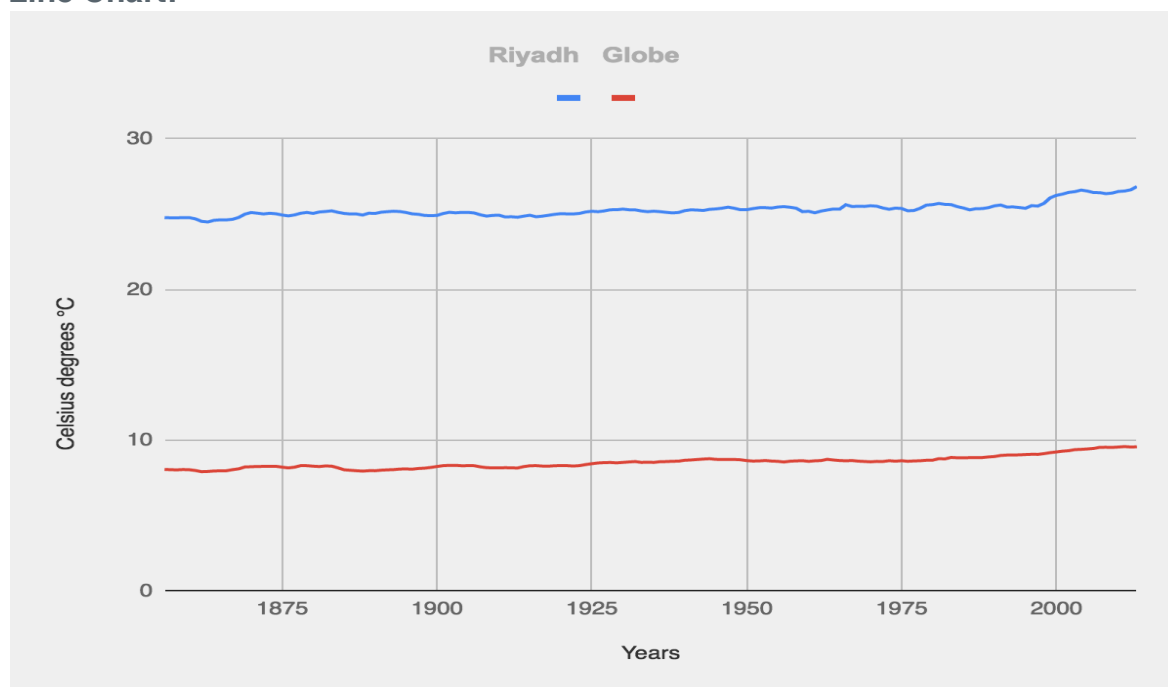
The query I used to extract the data of the local city is:

```
SELECT year, avg_temp FROM city_data where city LIKE 'Riyadh%'
```

The query I used to extract the global data is:

```
SELECT * FROM global_data
```

Line Chart:



My Observations:

- 1- According to the line chart, the average temperature in Riyadh and the globe is nearly constant. In Riyadh, It mostly goes between 24 – 25 degrees, While the global average temperature goes between 8 – 9 degrees. This is a huge difference! Almost 17 degrees.
- 2- According to the line chart, Riyadh average temperature extremely increased between 2000 to 2013. While the average global temperature slightly increased between 2000 to 2013.
- 3- According to the line chart, the increasing average temperature in Riyadh between 2000 and 2013 is interesting, in 2013 the temperature reached 26.82 which has not reach since 1850.
- 4- The line chart above confirms the long-term rise in the average temperature, Global warming, which started roughly in the year of 2007.
- 5- Temperatures are projected to continue rising further.