

Exploring Weather Trends

First Extract the Data Using SQL To Download It in CVS File:

Query to extract the city level data:

```
1. select city_data.year, city_data.avg_temp from city_list
2. left join city_data on city_list.city = city_data.city and city_list.country = city_data.country
3. where city_list.city = 'Riyadh';
```

Query to extract global data:

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

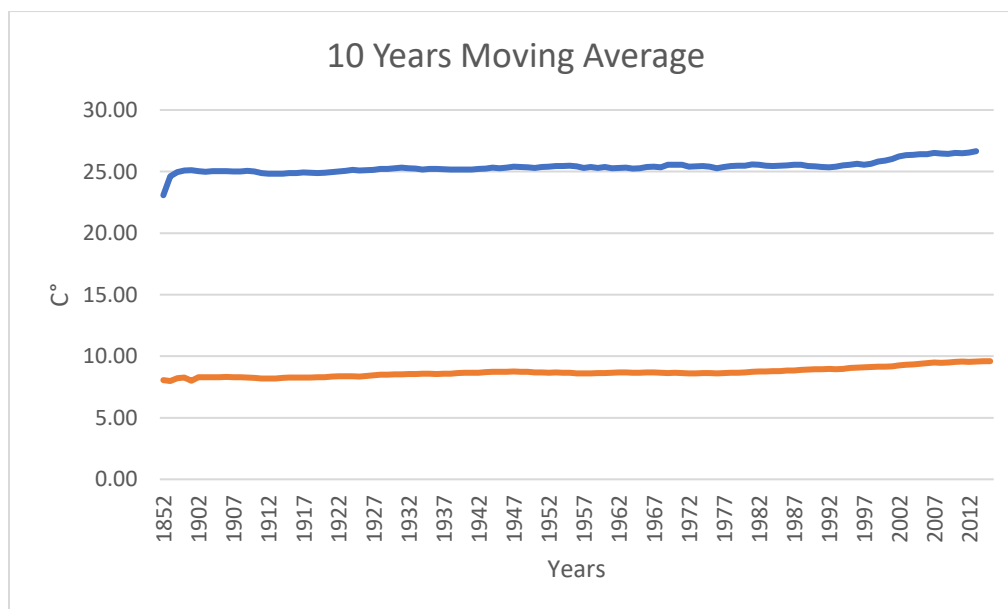
Create an Excel File and Put the Data in Different Sheets.

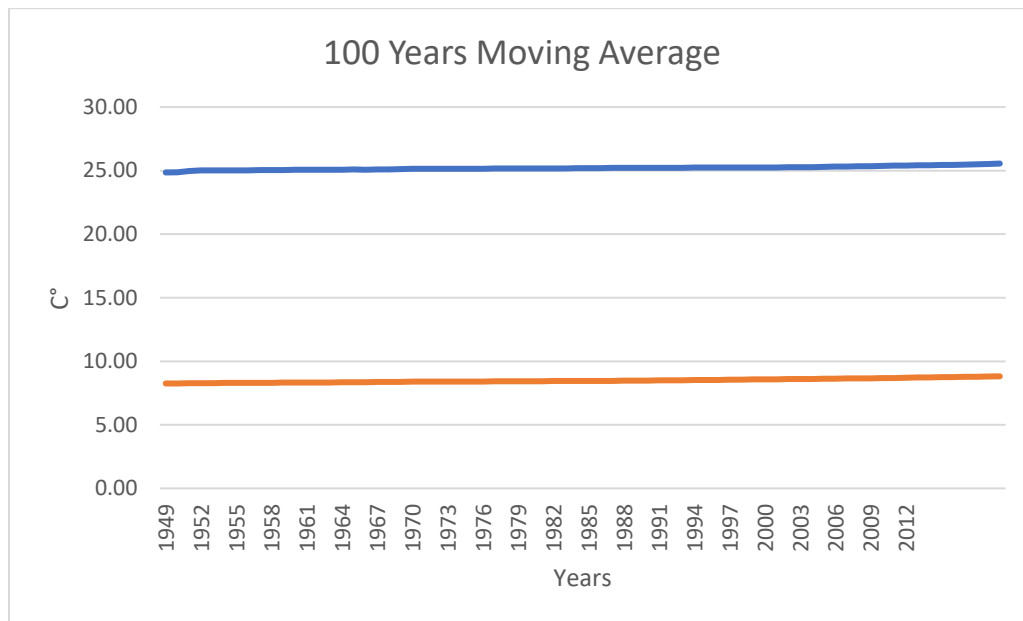
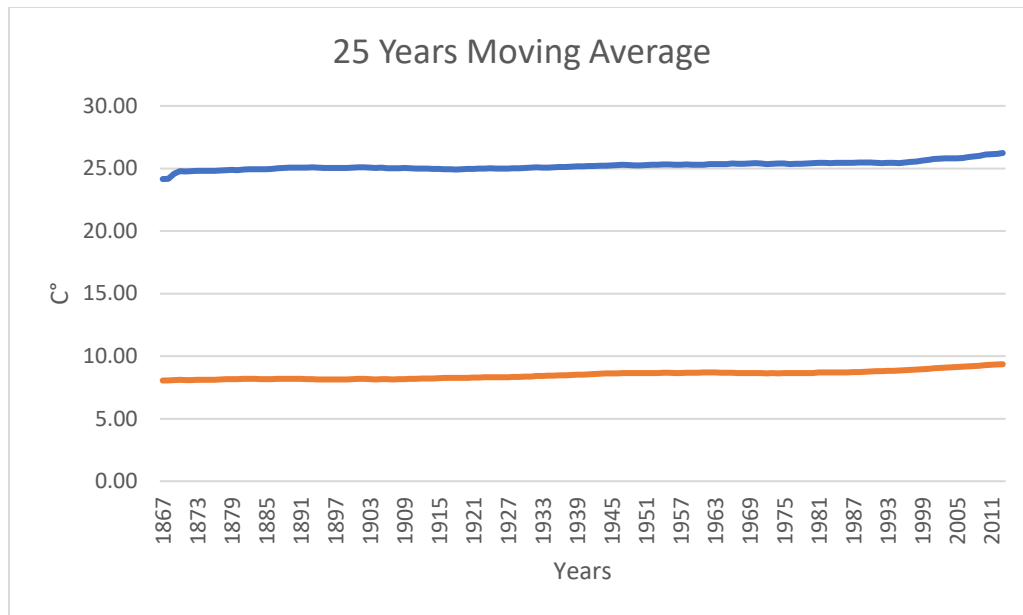
- Visualize
- City Data
- Global Data

Calculate Multiple Moving Average Using Average Function in Excel Based On:

- 1- 10 Years
- 2- 25 Years
- 3- 100 Years

Create the Line Chart:





Observations

I choose the capital of Saudi Arabia to compare it with the global data, in same years from 1852 to 2013.

- 1- The Average in Riyadh is Hotter than the global by almost 150%
- 2- The World getting hotter by time
- 3- The Average in Riyadh increased since 1995
- 4- With that average the world average will reach 10 in the next 10 years
- 5- Based on the 100 Years moving, the world and the city average temperature was taking more than before for the increase and by time, by years increase the temperature in a shorter period

Tools Has been used in this project:

- Microsoft Excel
- SQL
- Microsoft Word
- [Syntax Highlight Code in Word Documents](#)