



## **Mohammed Almoneef**

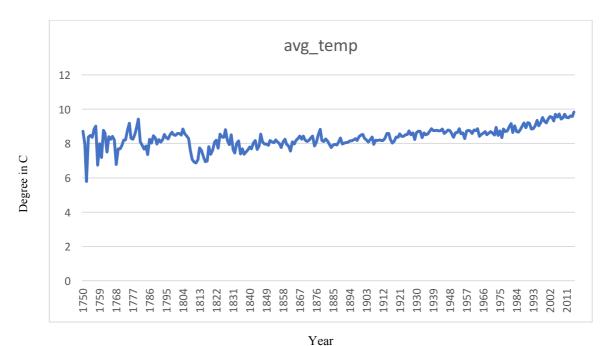
**DAND** 

**Project 1** 

**Weather Trends** 

P1: Weather Trends

Global average temperature line chart, from 1750 – 2014 (Avg temp: 8.36):



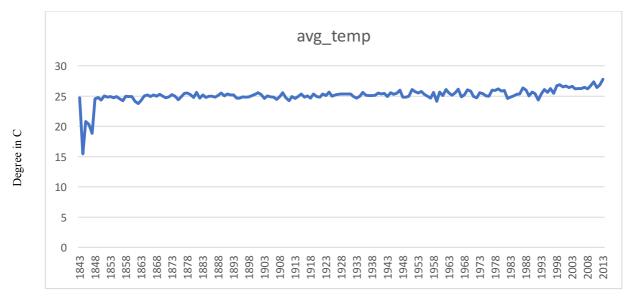
\* average global temperatures by year in (°C).

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My city (Riyadh, Saudi Arabia) temperature data information:

**Average**: 25.21 (from 1843 to 2013)

- Riyadh temperature data from 1843 – 2013:



Year

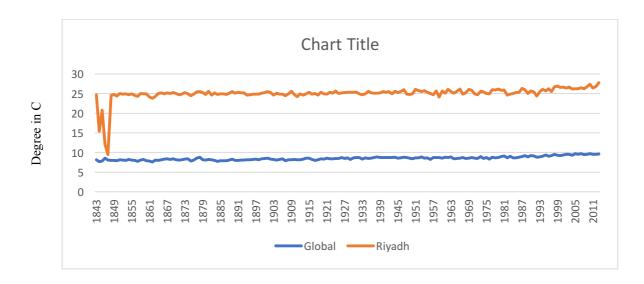
<sup>\*</sup> average global temperatures by year in (°C).

## Moving averages:

AVERAGE $\Rightarrow$ $\times$ $\checkmark$ $f_x$ =AVERAGE(B2:B8)					
	Α	В	AVERAGE(number1, [number2],)		F
1	year	avg_temp	7-year Moving Avg		
2	1850	24.34			
3	1851	25.03			
4	1852	24.85			
5	1853	24.93			
6	1854	24.72			
7	1855	24.92			
8	1856	24.57	=AVERAGE(B2:B8)		
9	1857	24.26			
10	1858	25.01			
11	1859	24.95			
12	1860	24.94			
13	1861	24.13			
14	1862	23.77			
4 =	4000	24.22			

## **Observations**:

• My city is hotter on average when we compare it to the global average, and the difference is not consistent over time



Year

- For the changes in my city temperature over time compared to the changes in the global, based on the above chart line, it's on parallel
- For the overall trend in the chart line, the world getting hotter. and the trend doesn't been consistent over the last few hundred years
- The trends for other cities on my country are around the average on my cities. For example, Mecca Avg is: 25.27 and my city (Riyadh) is: 25.21

## The steps for preparing the data:

- extract the data using SQL and download it with CSV format, queries:
  - select \* from city list
  - select \* from city\_data
  - select \* from global\_data
- Used Excel to prepare the data and visualized in the chart
- Calculate the moving average by using the Average Function in Excel
- My key considerations when I deciding to visualize the data are logic, the way to present the data, make sure the chart is helpful to make a decision and the compared

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