



Naif Abdullah Alrbiah Project 1

- **1-** SQL query to view global and local temperature and after that download it as CSV file (The query is showing below).
 - 1 SELECT *
 2 FROM city_data
 - 3 WHERE city = 'Riyadh'

 Query for local Data
- 1 SELECT *
 2 FROM global_data

Query for Global Data

2- MS Excel to view CSV file and calculate the moving average I make it 7 years for moving average (The calculations shown below).

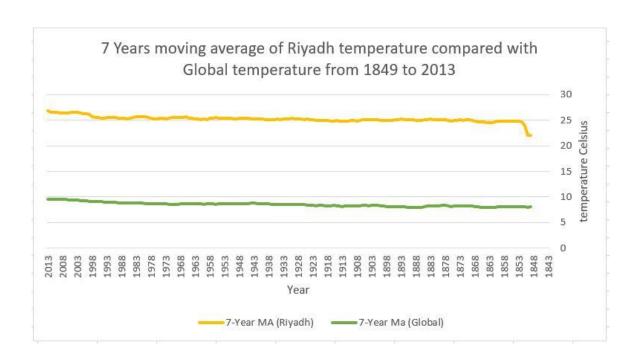
7-Year MA	avg_temp	country	city	year	1
	24.74	Saudi Arab	Riyadh	1843	2
	15.45	Saudi Arab	Riyadh	1844	3
	20.82	Saudi Arab	Riyadh	1845	4
		Saudi Arab	Riyadh	1846	5
		Saudi Arab	Riyadh	1847	6
	24.56	Saudi Arab	Riyadh	1848	7
= AVERAGE(D2:D8)		Saudi Arab	Riyadh	1849	8
21.994	24.34	Saudi Arab	Riyadh	1850	9
23.91	25.03	Saudi Arab	Riyadh	1851	10
24.716	24.85	Saudi Arab	Riyadh	1852	11

Local Data

7-Year MA av	g_temp_y	ear	1
	8.72	1750	2
	7.98	1751	3
	5.78	1752	4
	8.39	1753	5
	8.47	1754	6
	8.36	1755	7
=AVERAGE(B2:B8)		1756	8
8.121429	9.02	1757	9
7.944286	6.74	1758	10
8.26	7.99	1759	11

Global Data

3- line chart for 7 years moving average of Riyadh temperature compared with Global temperature from 1849 to 2013 (The chart is showing below).



Observations:

• Is your city hotter or cooler on average compared to the global average? Has the difference been consistent over time?

My city is more hotter on average compared to the global average.

Yes, the difference been consistent over time.

• "How do the changes in your city's temperatures over time compare to the changes in the global average?"

I see my city and the global is become more hotter than past years.

• What does the overall trend look like? Is the world getting hotter or cooler? Has the trend been consistent over the last few hundred years?

The world is getting hotter and the trend is not consistent over the last few hundred years