

## **Step 1:** extract the data from the database

- To extract the global data, I use this query:

select \*
from global\_data

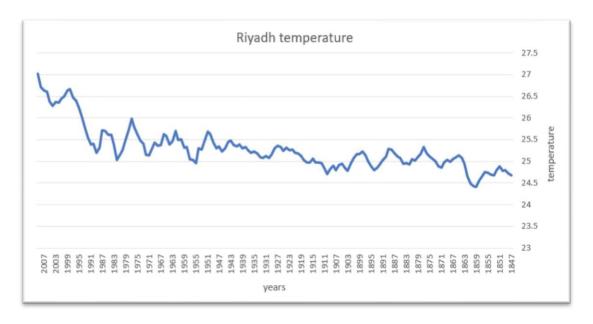
To extract my city data, I use this query:

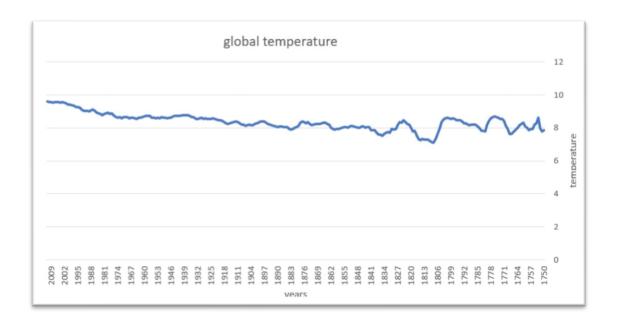
select \*
from city\_data
where city='Riyadh'

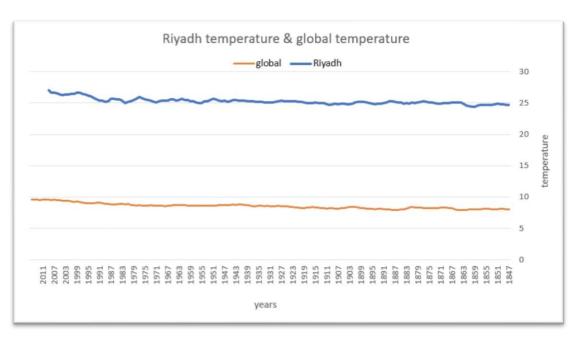
**Step 2:** calculate a moving average in a spreadsheet
I use the data from the previous step in Microsoft Excel, and I calculate a moving average as 5 years moving average as shown below:

С	В	Α	1
ear MA	<u> </u>	<b>×</b> ∍ar	1
	8.72	1750	2
	7.98	1751	3
	5.78	1752	4
	8.39	1753	5
=AVERAGE(B2:B6) .47 175		1754	6
	8.36	1755	7

**Step 3:** create a line chart in a spreadsheet







## **Step 4:** observations

- Riyadh average temperature was between 20.28 and 27.018 whereas the global average temperature was between 7.108 and 9.608.
- Riyadh minimum average temperature was in **1848**, and in 2013 Riyadh reach the maximum average temperature **27.18** so the average temperature was Increased by **6.9** degrees.
- Global minimum average temperature was in 1812 and the maximum global temperature was in 2015 so it is Increased by **2.5** degrees
- The temperature increased over the years in both world and Riyadh city.
- Riyadh city has higher average temperature than the global average temperature, so Riyadh is hotter.