

Compare the temperature in my city with global

Step (1)

I wrote a SQL query to extract the city level data. after Export to CSV.

I wrote a SQL query to extract the global data. after Export to CSV.

Input

SCHEMA

city_data

city_list

global_data

```
1 select * from city_data
2 where city = 'Riyadh';
3
```

EVALUATE

Output 171 results

[Download CSV](#)

year	city	country	avg_temp
------	------	---------	----------

Input

SCHEMA

city_data

city_list

global_data

```
1 SELECT *
2 from global_data
3
```

Success!

EVALUATE

Output 266 results

[Download CSV](#)

year	avg_temp
------	----------

Step (2)

After downloading files that have been joined by a Tableau.

local.csv

global.csv

Join

Inner

Left

Right

Full Outer

Data Source

Year

=

global.csv

Year (Global.Csv)

Add new join clause

Step (3)

The moving average was then calculated by Excel (Calculated in 2 steps)

Step 1: First, the average function was written from B2 to B11(The 10-year moving average was calculated)

AVERAGE		✖	✔	fx	=AVERAGE(B2:B11)			
	A	B	C	AVERAGE(number1, [number2], ...)		G	H	
1	year	avg_temp	global MA					
2	1750	8.72						
3	1751	7.98						
4	1752	5.78						
5	1753	8.39						
6	1754	8.47						
7	1755	8.36						
8	1756	8.85						
9	1757	9.02						
10	1758	6.74						
11	1759	7.99	B2:B11)					
12	1760	7.19						
13	1761	8.77						

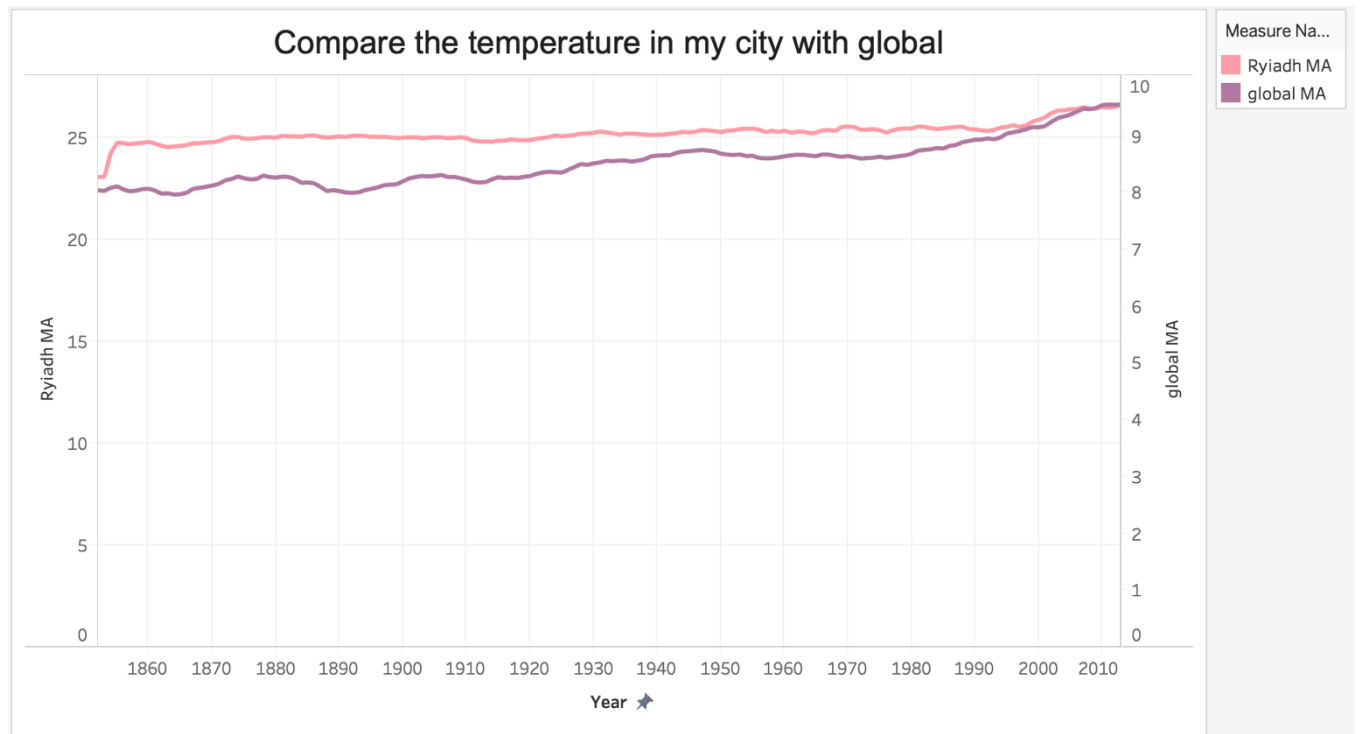
Step 2: The cell of the moving average was then withdrawn to another cell to be calculated overall years

C11		✖	✔	fx	=AVERAGE(B2:B11)			
	A	B	C	D	E	F	G	H
1	year	avg_temp	global MA					
2	1750	8.72						
3	1751	7.98						
4	1752	5.78						
5	1753	8.39						
6	1754	8.47						
7	1755	8.36						
8	1756	8.85						
9	1757	9.02						
10	1758	6.74						
11	1759	7.99	8.03					
12	1760	7.19	7.877					
13	1761	8.77	7.956					
14	1762	8.61	8.239					
15	1763	7.5	8.15					
16	1764	8.4	8.143					
17	1765	8.25	8.132					
18	1766	8.41	8.088					
19	1767	8.22	8.008					
20	1768	6.78	8.012					
21	1769	7.69	7.982					
22	1770	7.69	8.032					
23	1771	7.85	7.94					
24	1772	8.19	7.898					
25	1773	8.22	7.97					

Then the same steps were applied to my city's temperature file.

Step (4)

The chart was done by a Tableau.



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

From the graph I see that the average temperature of my city is more than the average temperature of the global temperature.

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

Note that the temperature changes of my city were almost constant but after 1990 the average temperature began to rise, while the average global temperature was continuing to rise.

What does the overall trend look like? Is the world getting hotter or cooler?

Note that the world is getting hotter over time.

Has the trend been consistent over the last few hundred years?

The trend of heat was almost constant until 1910 and after 1910 the trend began to rise.