Step1:

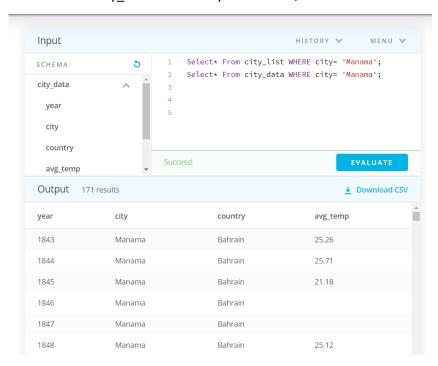
Extracting the data of the nearest big city to me from the Database and download it as CSV.

SQL queries used to extract 'Manama City' from city list:

Select* From city_list WHERE city= 'Manama';

SQL code used to extract the nearest big city which is 'Manama City' data from city_data:

Select* From city_data WHERE city= 'Manama';

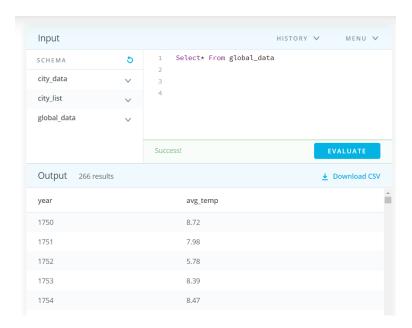


Step2:

Extracting the global data from the Database and download it as CSV.

SQL query used to extract 'Globe' data from global data:

Select* From global_data;



Step3:

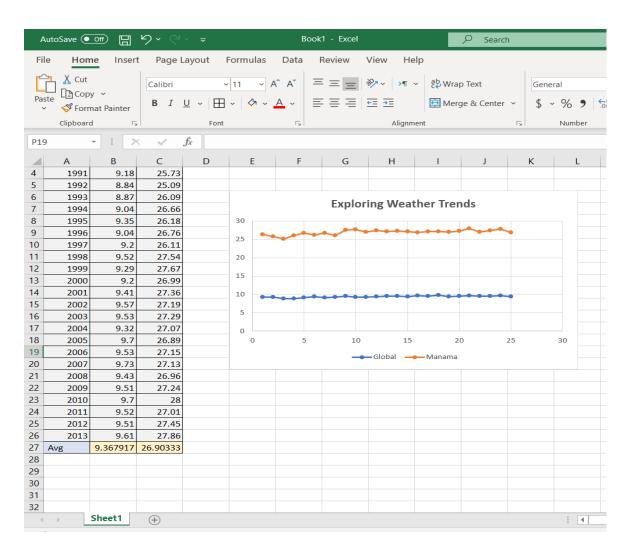
Creating a spreadsheet using MS Excel to compare the data extracted from previous steps.

-				-		
4	Α	В	С	D	E	F
1	Year	Global	Manama			
2	1990	9.23	26.26			
3	1991	9.18	25.73			
4	1992	8.84	25.09			
5	1993	8.87	26.09			
6	1994	9.04	26.66			
7	1995	9.35	26.18			
8	1996	9.04	26.76			
9	1997	9.2	26.11			
10	1998	9.52	27.54			
11	1999	9.29	27.67			
12	2000	9.2	26.99			
13	2001	9.41	27.36			
14	2002	9.57	27.19			
15	2003	9.53	27.29			
16	2004	9.32	27.07			
17	2005	9.7	26.89			
18	2006	9.53	27.15			
19	2007	9.73	27.13			
20	2008	9.43	26.96			
21	2009	9.51	27.24			
22	2010	9.7	28			
23	2011	9.52	27.01			
24	2012	9.51	27.45			
25	2013	9.61	27.86			
26	Avg	9.367917	26.90333			
27						

Miaad Altamimi

Step4:

Creating a chart to show the temperature change in Globe and Manama as shown below.

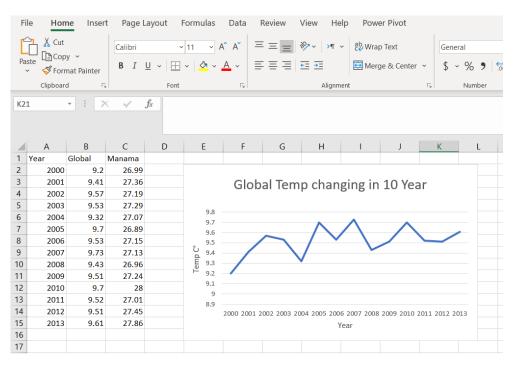


Step5:

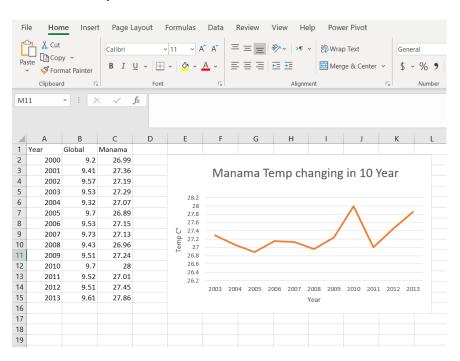
My observation:

- Manama's temperature varies between 25.09 C° lowest and 28.0 C° highest with average 26.90C°.
- Global temperature varies between 8.84 C° lowest and 9.73 C° highest with average 9.36 C°.
- When comparing the average of the Globe (9.36 C°) with the average in Manama (26.90C°) we clearly see that Manama is way hotter.
- By observing the temperature over time, let's say in 10 years (from 2003 to 2013) we can tell that the temperature is increasing year after another as shown below:

Globe Temp. observation between 2003 and 2013:



Manama's Temp. observation between 2003 and 2013:

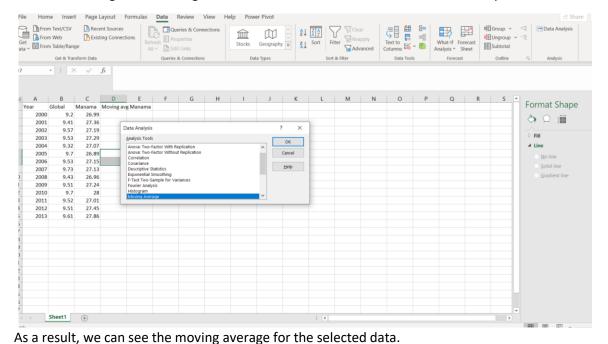


Step6:

Moving Avg:

Using excel we can extract the moving average by following the steps below:

- 1- In the toolbar we go to Data tab and click then choosing the tool Data analysis.
- 2- Clicking on Data analysis and choose Moving average function.
- 3- Selecting the data range for Manama and then calculate with a chart output.

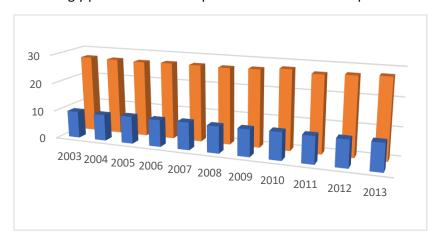


Add Chart Quick Element ~ Layout ~ Moving avg Manama
9 #N/A
6 #N/A
9 #N/A 2000 2001 2002 **Moving Average** 27.19 #N/A 27.29 #N/A 27.07 #N/A 26.89 #N/A 27.15 27.13429 27.13 27.15429 26.96 27.09714 27.24 27.10429 28 27.20571 27.01 27.19714 27.45 27.27714 27.45 27.27714 2003 2004 2005 2006 7 27.5 27 2007 2008 2009 2010 2011 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 2012 Sheet1 +

Miaad Altamimi

Conclusion:

Increasingly positive relationship between the Global temp and Manama's temp.



THE WORLD IS GETTING HOTTER.