# "Report on Explore Weather Trends Project"

## **Outline**

Excel tool is used for (1) Opening the CSV file (2) Creating a line chart

## Query used:

select year, avg\_temp from city\_data where year >=1850 and city = 'Riyadh' select year, avg\_temp from global\_data where year >=1850

## Line chart

The average used in the representation of Figure 1 is the moving average and it is calculated with the function (= AVRAGE(B2,B6)) a five years range, As you can see in Figure 2.

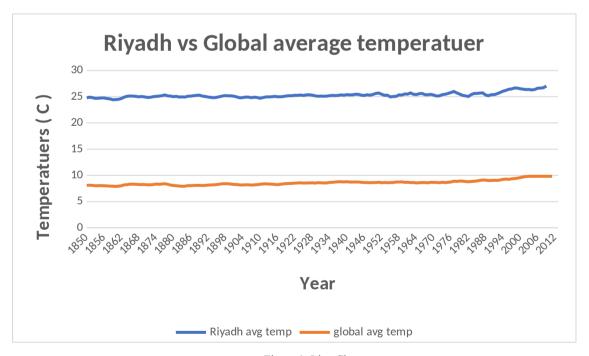


Figure 1: Line Chart

	Α	В	С	D	E	F	G	н і
1	year avg_temp		Riyadh avg temp			year	avg_temp	global avg temp
2	1850	24.34				1850	7.9	
3	1851	25.03				1851	8.18	
4	1852	24.85				1852	8.1	
5	1853	24.93				1853	8.04	
6	1854	24.72	24.774			1854	8.21	8.086
7	1855	24.92	24.89			1855	8.11	8.128
8	1856	24.57	24.798			1856	8	8.092
9	1857	24.26	24.68			1857	7.76	8.024
10	1858	25.01	24.696			1858	8.1	8.036
11	1859	24.95	24.742			1859	8.25	8.044
12	1860	24.94	24.746			1860	7.96	8.014
13	1861	24.13	24.658			1861	7.85	7.984
14	1862	23.77	24.56			1862	7.56	7.944
15	1863	24.28	24.414			1863	8.11	7.946
16	1864	25.03	24.43			1864	7.98	7.892
17	1865	25.23	24.488			1865	8.18	7.936
18	1866	24.92	24.646			1866	8.29	8.024
19	1867	25.22	24.936			1867	8.44	8.2
20	1868	25	25.08			1868	8.25	8.228
21	1869	25.3	25.134			1869	8.43	8.318
22	1870	25.02	25.092			1870	8.2	8.322
23	1871	24.73	25.054			1871	8.12	8.288
24	1872	24.87	24.984			1872	8.19	8.238
25	1873	25.24	25.032			1873	8.35	8.258
26	1874	24.98	24.968			1874	8.43	8.258
27	1875	24.43	24.85			1875	7.86	8.19
28	1876	24.89	24.882			1876	8.08	8.182
29	1877	25.47	25.002			1877	8.54	8.252
30	1878	25.51	25.056			1878	8.83	8.348
31	1879	25.24	25.108			1879	8.17	8.296
32	1880		25.182			1880	8.12	8.348
33	1881	25.63	25.33			1881	8.27	8.386
34	1882	24.66	25.168			1882	8.13	8.304
35	1883		25.104			1883	7.98	8.134
36	1884		25.016			1884	7.77	8.054
37	1885	24.98	25.052			1885	7.92	8.014
38	1886	24.98	24.922			1886	7.95	7.95
39	1887	24.81	24.952			1887	7.91	7.906

Figure 2: Data In Excel

## **Observations**

- (1) Riyadh city is hotter comparing to the average global temperature.
- (2) The difference of temperatures over years between Riyadh and the global temperature is nearly consist.
- (3) Comparing the change of temperatures between Riyadh and the global, it looks like Riyadh is increasing more in the last years (2004-2006)

(4) From the overall trends of the global average temperatures, it appears that the world is getting hotter, even with the changes of trends (going up and down) when I observe the overall pictures the world dose gets hotter.