Exploring Weather Trends - Project

STEPS:

1. Extract the data Using SQL:

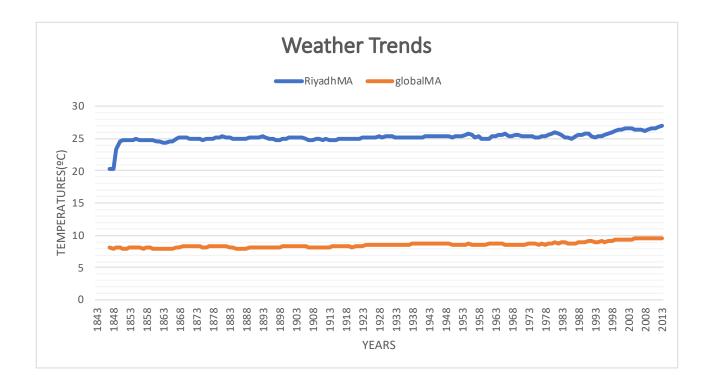
SELECT c.year,c.avg_temp AS city_temp, g.avg_temp AS global_temp FROM city_data c
JOIN global_data g
ON c.year=g.year
WHERE city='Riyadh';

2. Open the CSV using Excel:

- Calculate moving average using data analysis tool, with 5 years interval

А	В	С	D	E
Years	city_temp	global_temp	RiyadhMA	globalMA
1843	24.74	8.17	#N/A	#N/A
1844	15.45	7.65	#N/A	#N/A
1845	20.82	7.85	#N/A	#N/A
1846		8.55	#N/A	#N/A
1847		8.09	20.33667	8.062
1848	24.56	7.98	20.27667	8.024
1849	24.8	7.98	23.39333	8.09
1850	24.34	7.9	24.56667	8.1
1851	25.03	8.18	24.6825	8.026
1852	24.85	8.1	24.716	8.028
1853	24.93	8.04	24.79	8.04
1854	24.72	8.21	24.774	8.086
1855	24.92	8.11	24.89	8.128
1856	24.57	8	24.798	8.092
1857	24.26	7.76	24.68	8.024
1858	25.01	8.1	24.696	8.036
1859	24.95	8.25	24.742	8.044
1860	24.94	7.96	24.746	8.014
1861	24.13	7.85	24.658	7.984
1862	23.77	7.56	24.56	7.944
1863	24.28	8.11	24.414	7.946
1864	25.03	7.98	24.43	7.892
1865	25.23	8.18	24.488	7.936
1866	24.92	8.29	24.646	8.024
1867	25.22	8.44	24.936	8.2
1868	25	8.25	25.08	8.228
1869	25.3	8.43	25.134	8.318
1870	25.02	8.2	25.092	8.322
1871	24.73	8.12	25.054	8.288
1872	24.87	8.19	24.984	8.238
1873	25.24	8.35	25.032	8.258
1874	24.98	8.43	24.968	8.258

- Create a line chart using Line symbol. tool.



Observations:

- Riyadh city is hotter than the global temperature. And the difference is almost constant over time.
- Riyadh city and World getting hotter over time.
- World and Riyadh city temperatures both have Significantly increased in the last few thirty years. But Riyadh's temperature fluctuated slightly at the beginning.
- World temperature trend smoother than Riyadh temperature trend.