Frist project: Explore Weather Trends

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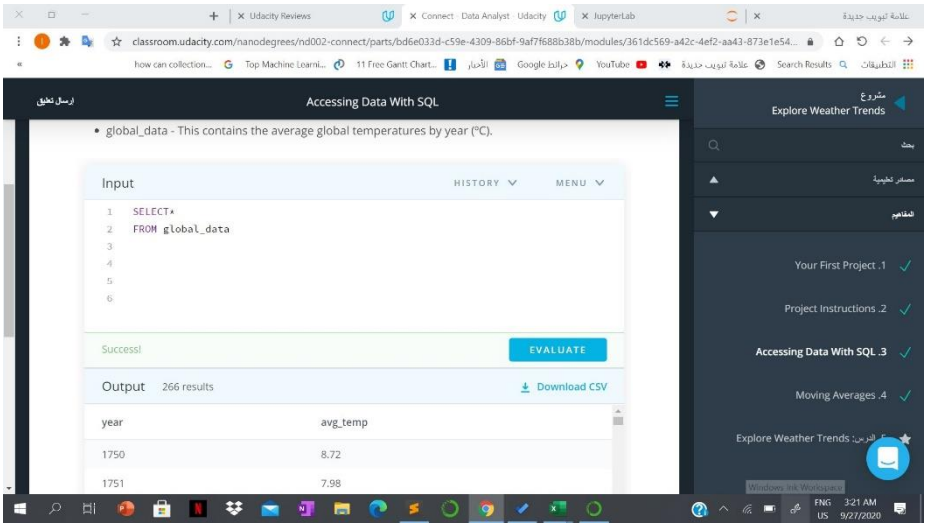
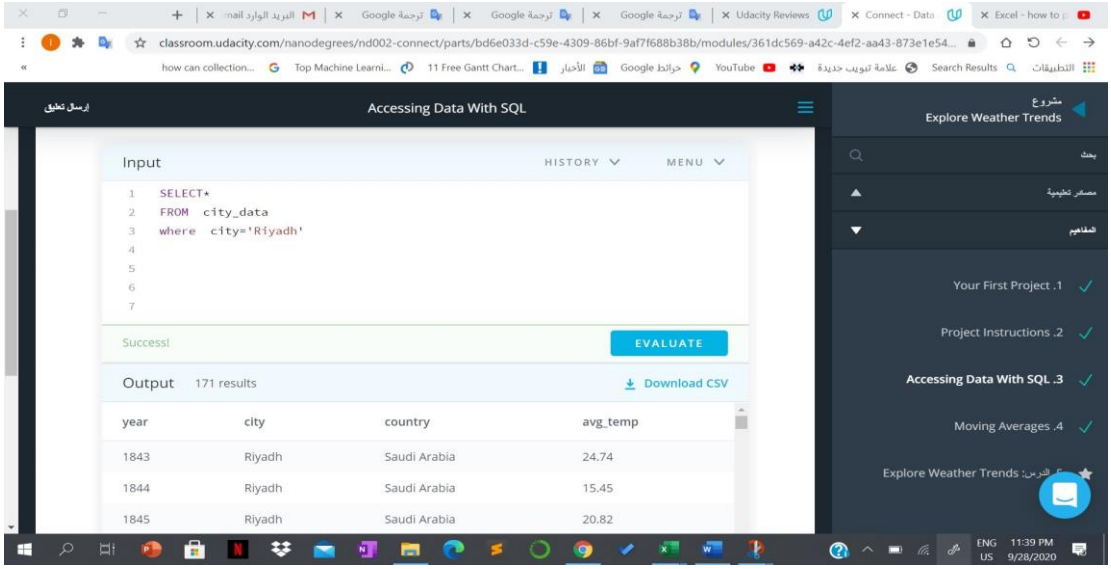
My GitHub: https://github.com/Ahmmed44/Exploring-Weather-Trends

1- First extract data from the database

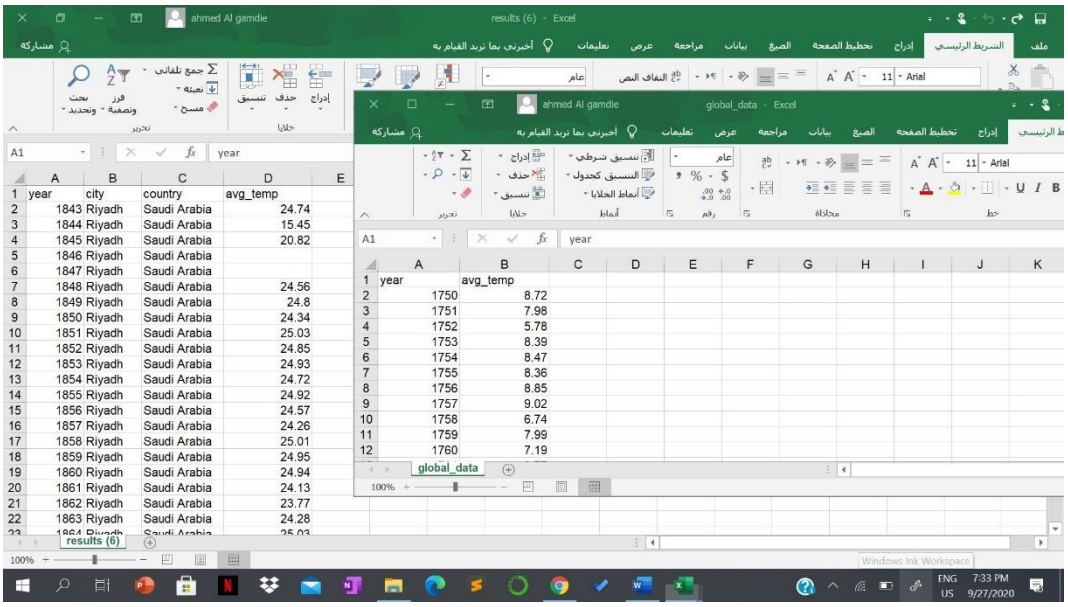
- Download the table global_data :



- then download table city data and specific the city Riyadh :

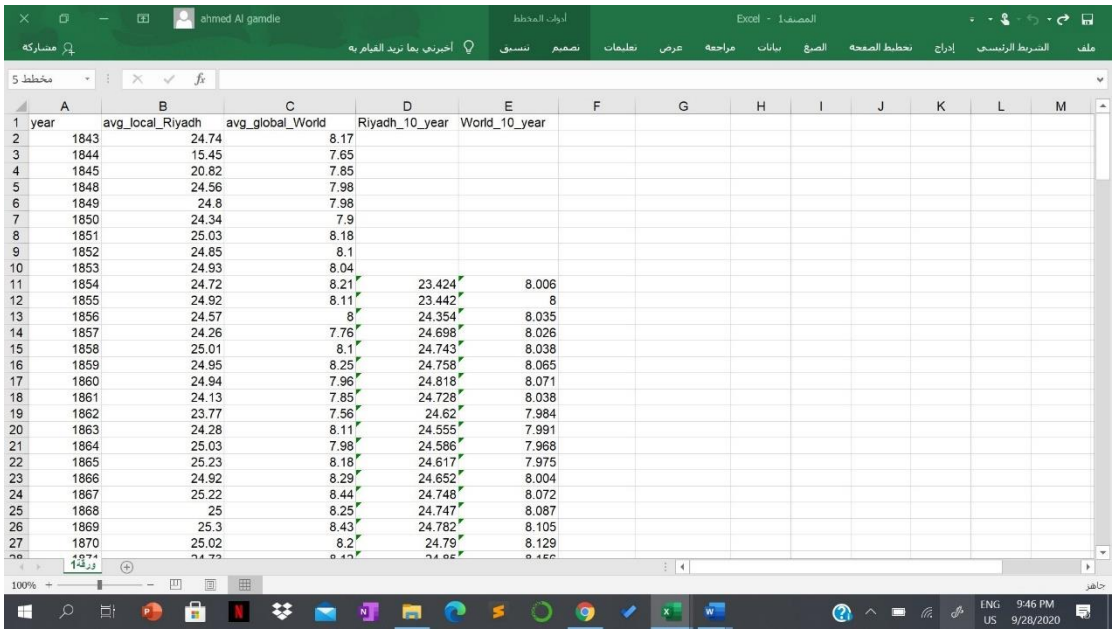


- then open the two files in excel:



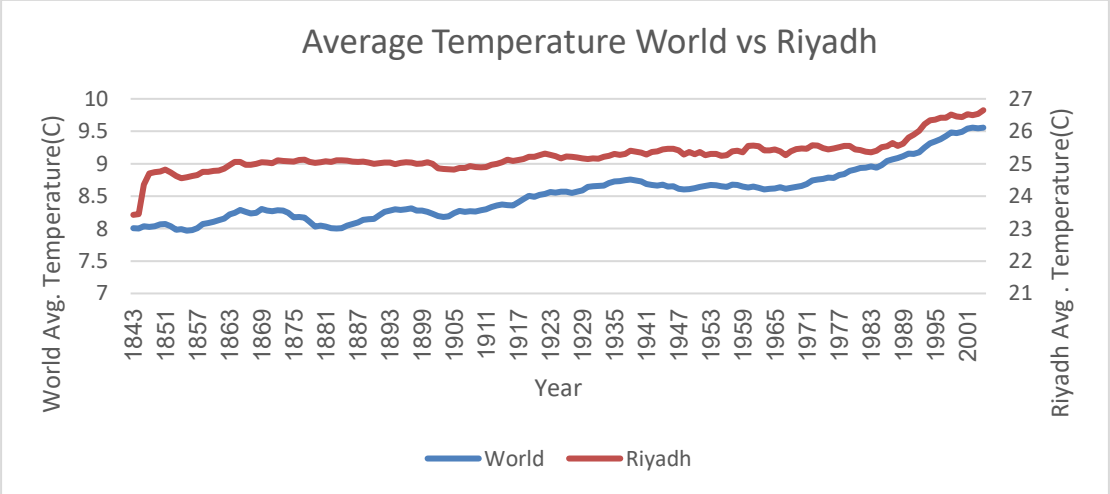
2- here I do manipulate data

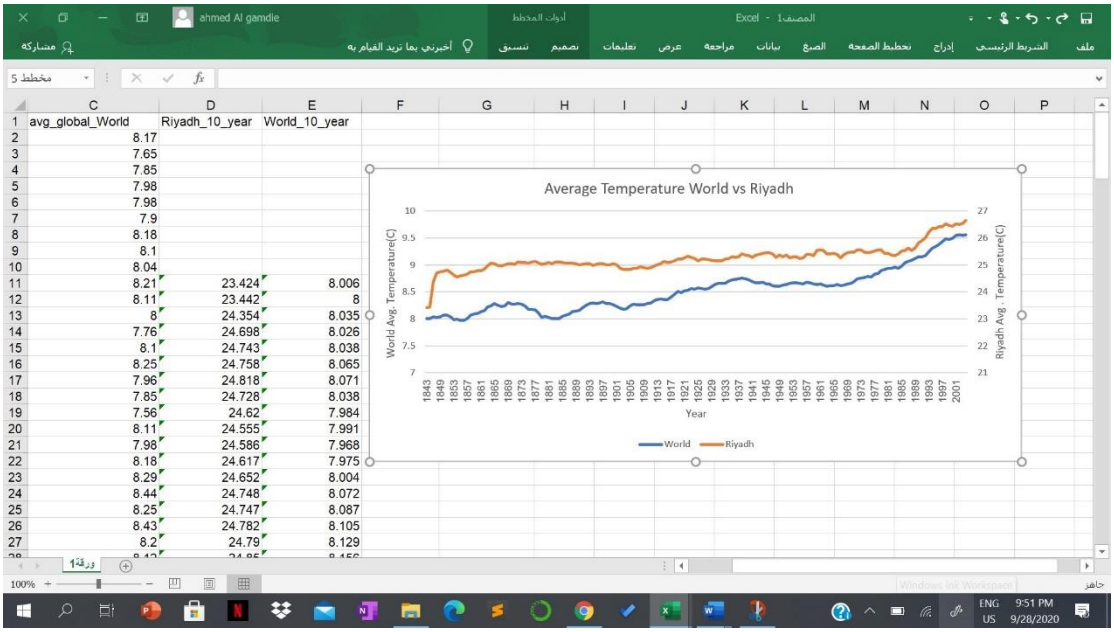
- the table **ave_global _World** choice starts years 1843 end 2013 because need match with years table **avg_local_Riyadh** .
- and I have missing features for the table avg_local_Riyadh for the years 1846 and 1847 then I delete.
- and delete the column country because not useful for this project.
- the calculate moving average for 10 years



	A	B	C	D	E
1	year	avg_local_Riyadh	avg_global_World	Riyadh_10_year	World_10_year
2	1843	24.74	8.17		
3	1844	15.45	7.65		
4	1845	20.82	7.85		
5	1848	24.56	7.98		
6	1849	24.8	7.98		
7	1850	24.34	7.9		
8	1851	25.03	8.18		
9	1852	24.85	8.1		
10	1853	24.93	8.04		
11	1854	24.72	8.21	23.424	8.006
12	1855	24.92	8.11	23.442	8
13	1856	24.57	8	24.354	8.035
14	1857	24.26	7.76	24.698	8.026
15	1858	25.01	8.1	24.743	8.038
16	1859	24.95	8.25	24.758	8.065
17	1860	24.94	7.96	24.818	8.071
18	1861	24.13	7.85	24.728	8.038
19	1862	23.77	7.56	24.62	7.984
20	1863	24.28	8.11	24.555	7.991
21	1864	25.03	7.98	24.586	7.968
22	1865	25.23	8.18	24.617	7.975
23	1866	24.92	8.29	24.652	8.004
24	1867	25.22	8.44	24.748	8.072
25	1868	25	8.25	24.747	8.087
26	1869	25.3	8.43	24.782	8.105
27	1870	25.02	8.2	24.79	8.129

3- Data visualization





	C	D	E
1	avg_global_World	Riyadh_10_year	World_10_year
2	8.17		
3	7.65		
4	7.85		
5	7.98		
6	7.98		
7	7.9		
8	8.18		
9	8.1		
10	8.04		
11	8.21	23.424	8.006
12	8.11	23.442	8
13	8	24.354	8.035
14	7.76	24.698	8.026
15	8.1	24.743	8.038
16	8.25	24.758	8.065
17	7.96	24.818	8.071
18	7.85	24.728	8.038
19	7.56	24.62	7.984
20	8.11	24.555	7.991
21	7.98	24.586	7.968
22	8.18	24.617	7.975
23	8.29	24.652	8.004
24	8.44	24.748	8.072
25	8.25	24.747	8.087
26	8.43	24.782	8.105
27	8.2	24.79	8.129

4- Observations

- when we see the visualization **city Riyadh** for the year 1844 down 23C and then uplift in the 1849 year

- when we see the visualization **world** this is very cooler

- **Riyadh** had not consistent over time

- The **world** had not consistent over time

- **the world and my city Riyadh** look like getting hotter for the Coming years last