Outline

What tools did you use for each step? (Python, SQL, Excel, etc)

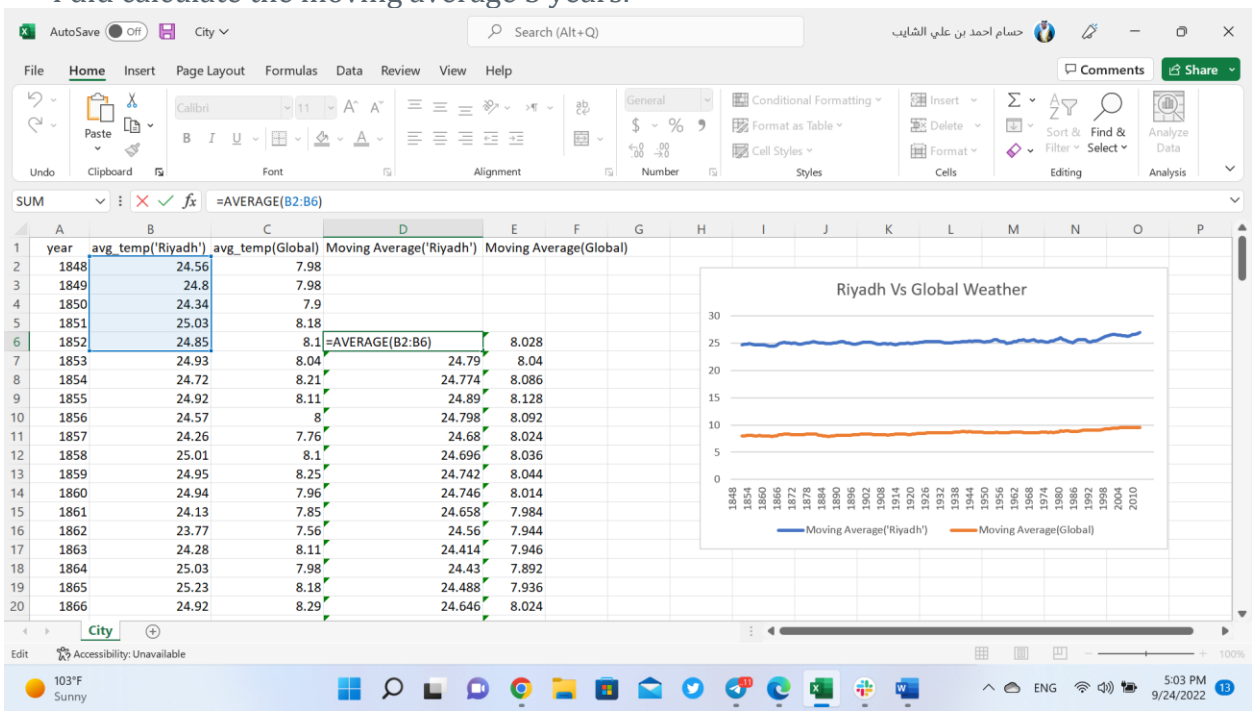
- Tools I have used was Excel and SQL.

```
#SQL code for getting global data
SELECT year,avg_temp
FROM global_data
WHERE year >= '1848' AND year <= '2013';
```

```
#SQL code for getting the city data
SELECT year,avg_temp
FROM city_data
WHERE city = 'Riyadh' and country = 'Saudi Arabia';
```

How did you calculate the moving average?

- I did calculate the moving average 5 years.



	A	B	C	D	E
1	year	avg_temp('Riyadh')	avg_temp(Global)	Moving Average('Riyadh')	Moving Average(Global)
2	1848	24.56	7.98		
3	1849	24.8	7.98		
4	1850	24.34	7.9		
5	1851	25.03	8.18		
6	1852	24.85	8.1	=AVERAGE(B2:B6)	8.028
7	1853	24.93	8.04	24.79	8.04
8	1854	24.72	8.21	24.774	8.086
9	1855	24.92	8.11	24.89	8.128
10	1856	24.57	8	24.798	8.092
11	1857	24.26	7.76	24.68	8.024
12	1858	25.01	8.1	24.696	8.036
13	1859	24.95	8.25	24.742	8.044
14	1860	24.94	7.96	24.746	8.014
15	1861	24.13	7.85	24.658	7.984
16	1862	23.77	7.56	24.56	7.944
17	1863	24.28	8.11	24.414	7.946
18	1864	25.03	7.98	24.43	7.892
19	1865	25.23	8.18	24.488	7.936
20	1866	24.92	8.29	24.646	8.024

Figure 1

What were your key considerations when deciding how to visualize the trends?

- My considerations were to visualize the year and the average of both city and global data.

Line chart

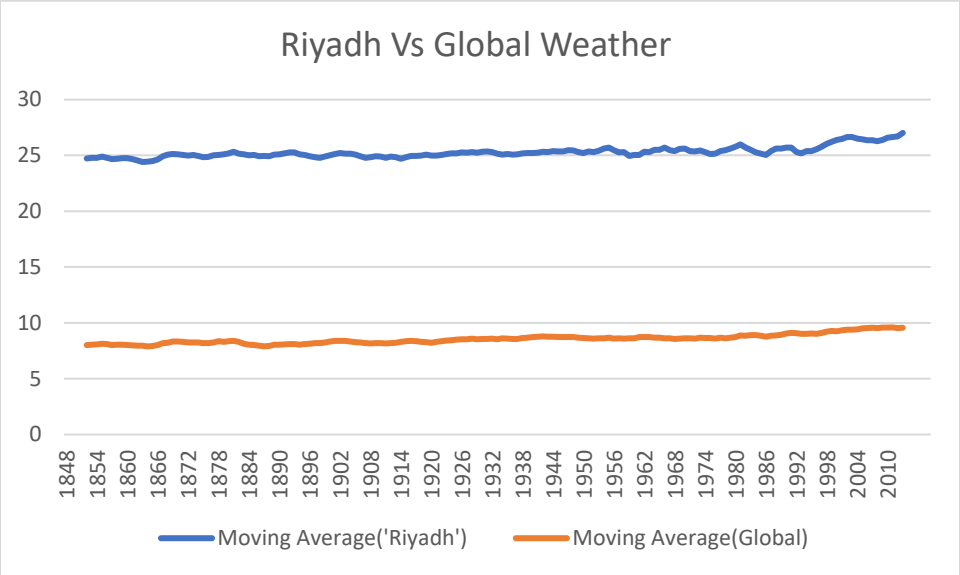


Figure 2

Observations

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

- My city was hotter on average compared to the global average, and the difference was consistent over the time.

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

- The changes in my city temperatures over the time were similar to the global average, which can be seen In the Figure 2.

What does the overall trend look like? Is the world getting hotter or cooler? Has the trend been consistent over the last few hundred years?

- The overall trends show that as I can see in the Figure 2, the temperature of the world is getting hotter, and the difference is consistent over the years.