Data Analysis Project 1

In this project we use the data to make some observation about global and my city (Riyadh) temperature, I took a period from 1850 until 2013, so I ignored the data before 1850 because it has some undefined average temperature.

An outline:

-I use SQL to extract the needed data.

-I use Excel to make the chart.

-To calculate the moving average, I use Excel periods separated by 10 years, the first period I take an Average(B2:B12), but the periods after I use Average(B4:B13), then I dragged to last cell.

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	A	B	C	D	E
1	year	avg_temp	10-year Riyadh MA	10-year Global MA	avg_temp
2	1850	24.34			7.9
3	1851	25.03			8.18
4	1852	24.85			8.1
5	1853	24.93			8.04
6	1854	24.72			8.21
7	1855	24.92			8.11
8	1856	24.57			8
9	1857	24.26			7.76
10	1858	25.01			8.1
11	1859	24.95			8.25
12	1860	24.94	24.77454545	8.055454545	7.96
13	1861	24.13	24.728	8.038	7.85
14	1862	23.77	24.62	7.984	7.56
15	1863	24.28	24.555	7.991	8.11
16	1864	25.03	24.586	7.968	7.98
17	1865	25.23	24.617	7.975	8.18
18	1866	24.92	24.652	8.004	8.29
19	1867	25.22	24.748	8.072	8.44
20	1868	25	24.747	8.087	8.25
21	1869	25.3	24.782	8.105	8.43
22	1870	25.02	24.79	8.129	8.2

-I use a line chart because it will give me a good vision to extract some observations.

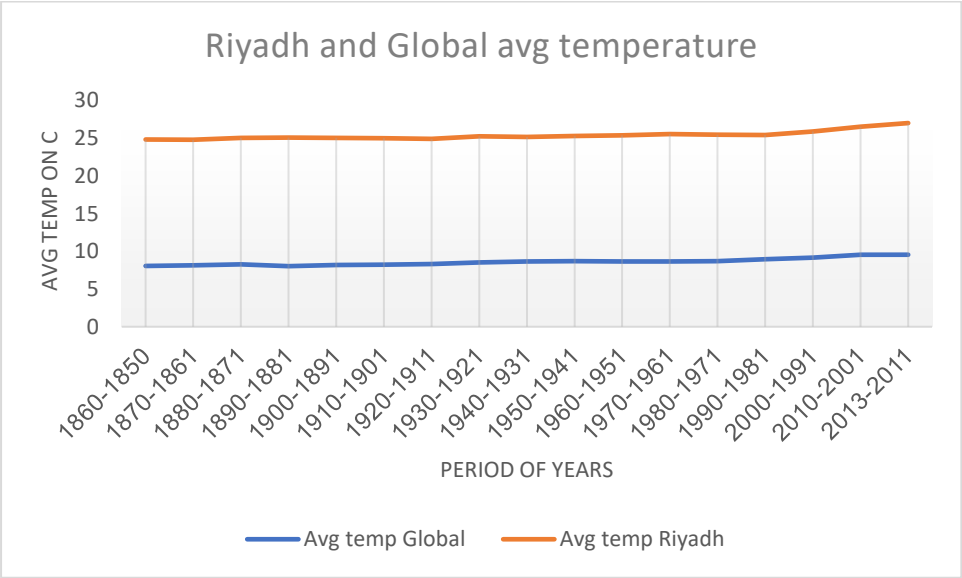
-SQL query to extract Riyadh data:

```
SELECT year, avg_temp
FROM city_data
WHERE city = 'Riyadh' AND year >= 1850;
```

-SQL query to extract Global data:

```
SELECT year, avg_temp
FROM global_data
WHERE year >= 1850 AND year < 2014;
```

-Line chart



-My observations:

1-Riyadh avg temp is hotter than Global avg temp with a big difference.

2-the period from 1850-1990 is almost without changes on Riyadh and Global.

3-After 1991 until now Riyadh avg temp increases faster than the world.

4-Overall the world getting hotter but after 2001 it increases faster.