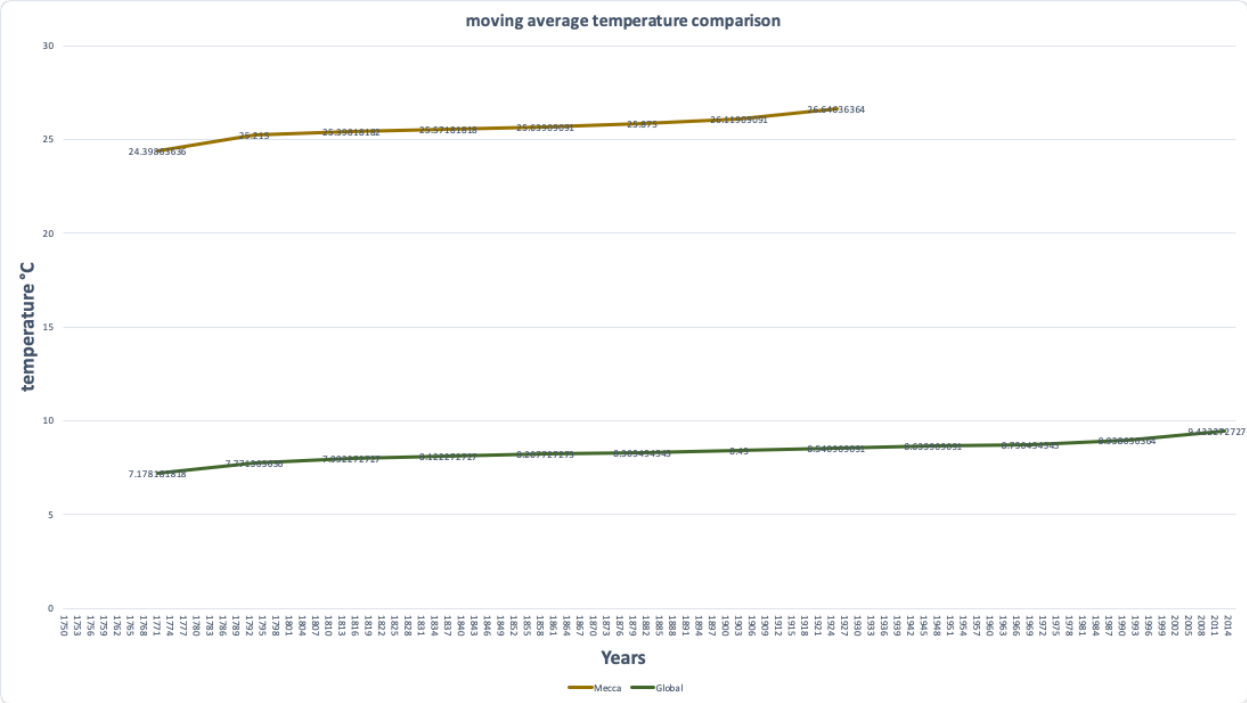


F23						$\sum x$	=AVERAGE(A2:A23)							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	mecca	city	year	Global avg	year	Mecca movir	global movir	Mecca Avg tr	Global Avg	tempreture				
2	19.05	Mecca	1843	5.78	1750			24.8672727	7.98454546					
3	22.46	Mecca	1844	6.74	1751			25.3818182	8.28954546					
4	22.87	Mecca	1845	6.78	1752			25.3640909	8.055					
5	23.98	Mecca	1846	6.86	1753			25.4995455	7.87272727					
6	24.13	Mecca	1847	6.92	1754			25.6945455	7.98045455					
7	24.53	Mecca	1848	6.94	1755			25.7736364	8.19136364					
8	24.74	Mecca	1849	6.98	1756			25.8354546	8.14272727					
9	24.75	Mecca	1850	7.05	1757			26.4468182	8.30136364					
10	24.85	Mecca	1851	7.08	1758				8.65772727					
11	24.96	Mecca	1852	7.19	1759				8.63181818					
12	24.96	Mecca	1853	7.24	1760				8.82272727					
13	24.97	Mecca	1854	7.36	1761				9.38272727					
14	24.98	Mecca	1855	7.37	1762									
15	25	Mecca	1856	7.38	1763									
16	25.03	Mecca	1857	7.39	1764									
17	25.03	Mecca	1858	7.45	1765									
18	25.04	Mecca	1859	7.5	1766									
19	25.05	Mecca	1860	7.51	1767									
20	25.08	Mecca	1861	7.56	1768									
21	25.09	Mecca	1862	7.59	1769									
22	25.11	Mecca	1863	7.62	1770									
23	25.11	Mecca	1864	7.63	1771	24.3986364	7.17818182							
24	25.12	Mecca	1865	7.63	1772									
25	25.13	Mecca	1866	7.64	1773									
26	25.13	Mecca	1867	7.65	1774									
Moving avarage														

Chart



observation:

- Mecca the temperature vary between 19°C degree and 27.5°C degree, as shown in the chart the average temperature in Mecca is increasing over the years.
- increase in the global average temperature over the years, and it vary between 5.7°C and 9.8°C
- changes in Mecca temperatures over time compare to the changes in the global average is almost the same, increasing with the same ratio.
- the global average temperature is way lower than Mecca.
- overall weather trend is raising, the world is getting hotter in general over time, the temperature was consistent starting the time period 1750-1800, it started rising and the temperature was between 7.9 and 8.7 until 1969, and then the temperature rising increased higher than usual to 8.9 until it reached 9.4 in the 2000 ,it is still rising, study and slow rising until today.

outline:

- I used SQL workspace on audacity website to extract data needed.
- I used excel to sort the data, calculate the moving average, and create data visualization.
- moving average calculated for each 21 Years.
- For a 21-year moving average for F23 at column F (moving average for Mecca), I took the average of the last 21 rows for the corresponding values at column A (average temperature for Mecca) including the A23. (F23 =AVERAGE(A2:A23))key
- considerations deciding how to visualize the trends:
 - time, temperature.
 - increase or decrease in the chart.