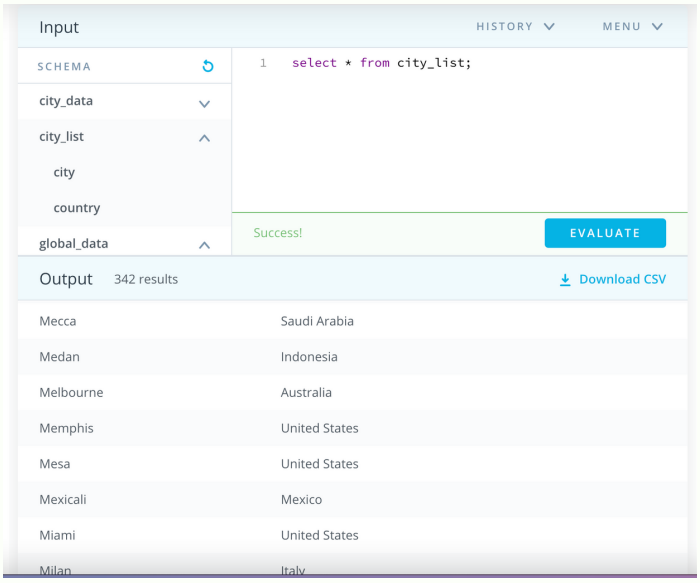
June 2021

Explore Weather Trends

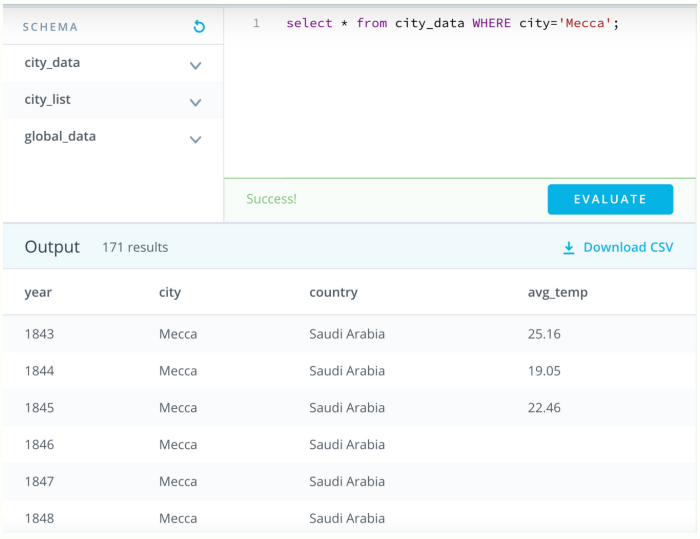
02

in the beginning I choose Mecca as my local city and then I used sql to fetch that data I will analysis

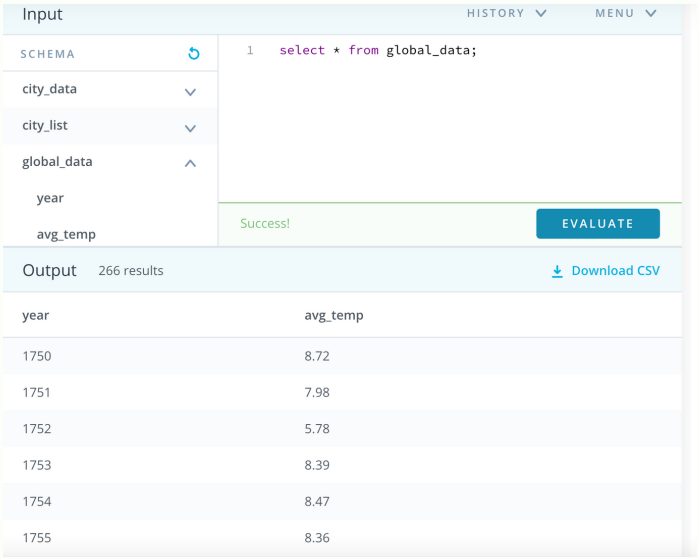
iI entered select * from city_list; to choose my local city



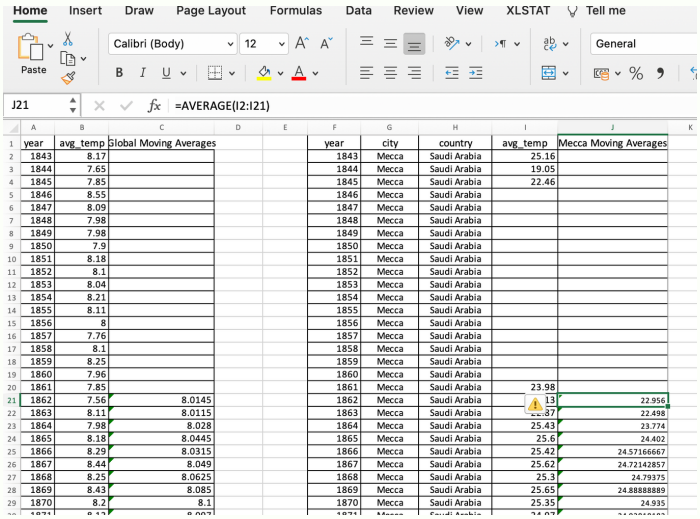
and then I entered select * from city_data WHERE city='Mecca';to get local data temperature

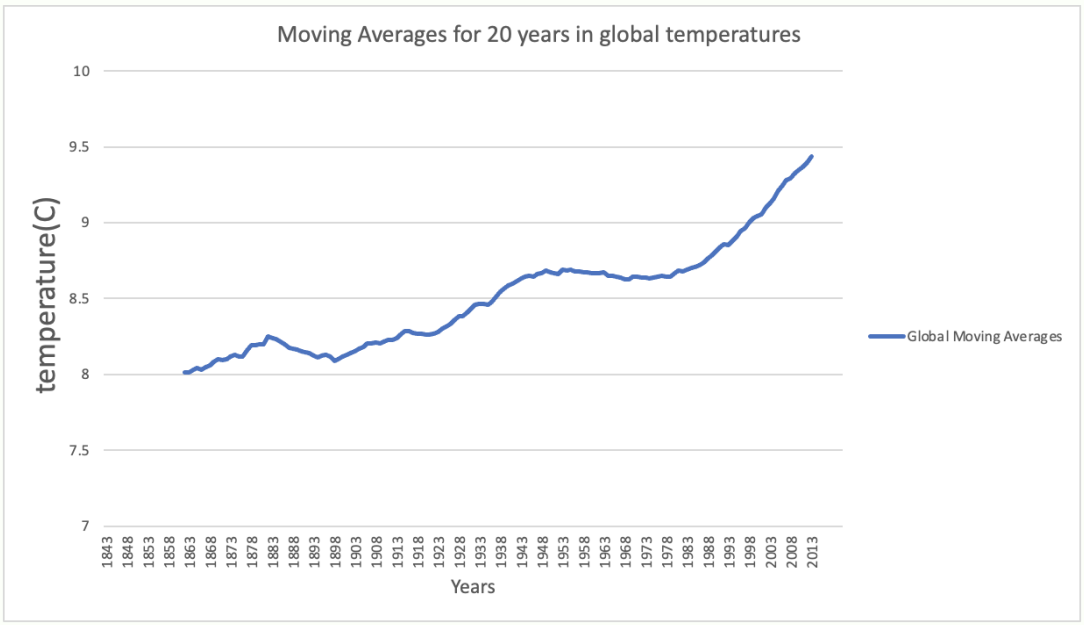


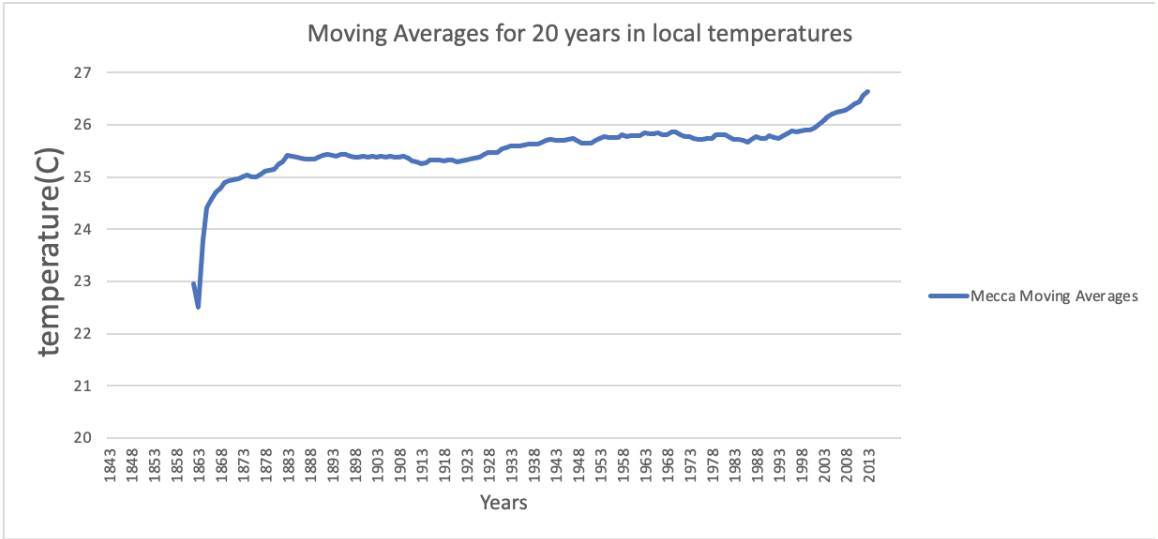
and select * from global_data; to get global data temperature

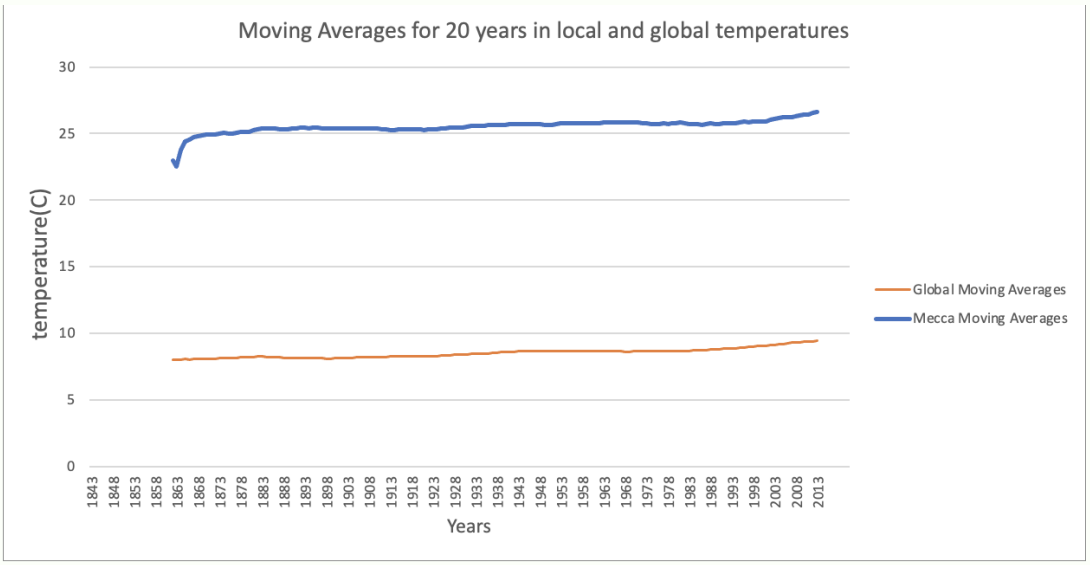


- and I used excel to analysis the data and visualize moving average and I calculate moving average by using this formula =AVERAGE(cells).




Moving Averages for 20 years in global temperatures
temperature(C)
10
9.5
9
8.5
8
7.5
7
1843 1848 1853 1858 1863 1868 1873 1878 1883 1888 1893 1898 1903 1908 1913 1918 1923 1928 1933 1938 1943 1948 1953 1958 1963 1968 1973 1978 1983 1988 1993 1998 2003 2008 2013
Years
Global Moving Averages


Moving Averages for 20 years in local temperatures
temperature(C)
27
26
25
24
23
22
21
20
1843 1848 1853 1858 1863 1868 1873 1878 1883 1888 1893 1898 1903 1908 1913 1918 1923 1928 1933 1938 1943 1948 1953 1958 1963 1968 1973 1978 1983 1988 1993 1998 2003 2008 2013
Years
Mecca Moving Averages



My observations that is:

1- my city temperatures are hotter than global temperatures almost three times.

2- the temperatures increase with the time increase for both my city and global temperatures in the last years.

3- the world become hotter through the years.

4-I notice in the global temperatures increase and decrease clearly unlike my city it seems there is a little of decrease and big increase.