SQL queries that I used:

1. I used the below query to explore the cities in ‘Saudi Arabia’:

select city

from city\_list

where country = 'Saudi Arabia';

1. I used this query to find data related to ‘Mecca’ city in certain years:

select \*

from city\_data

where city='Mecca' and year between 1867 and 2012;

1. I used this query to find all data between years of (1867 and 2012) from global\_data table:

select \*

from global\_data

where year between 1867 and 2012;

I downloaded CSV files produced from the previous queries and I used Excel program to work with the data and to compute Moving Average.

Figure 1: visual representation that compares Mecca’s MA with global MA

Observations:

* Mecca has higher temperature than the rest of the world, so it is hotter on average compared to the global average.
* The global trend is almost consistent over the years, whereas the trend of mecca city is changing over time.
* There are a lot of changes in Mecca’s temperature over time compared to the changes of the world’s temperatures.
* Both global and local temperatures are increasing in the last year (2012).