Project 1

1- Outlines

Processing Data

Steps:

1-***Using Udacity SQL workspace*** to write a SQl code to export global and local temperature data and download them as CSV files

My codes are:

A- **For exporting global data**:

```
SELECT *
  FROM global_data
```

B- **For exporting local data:**

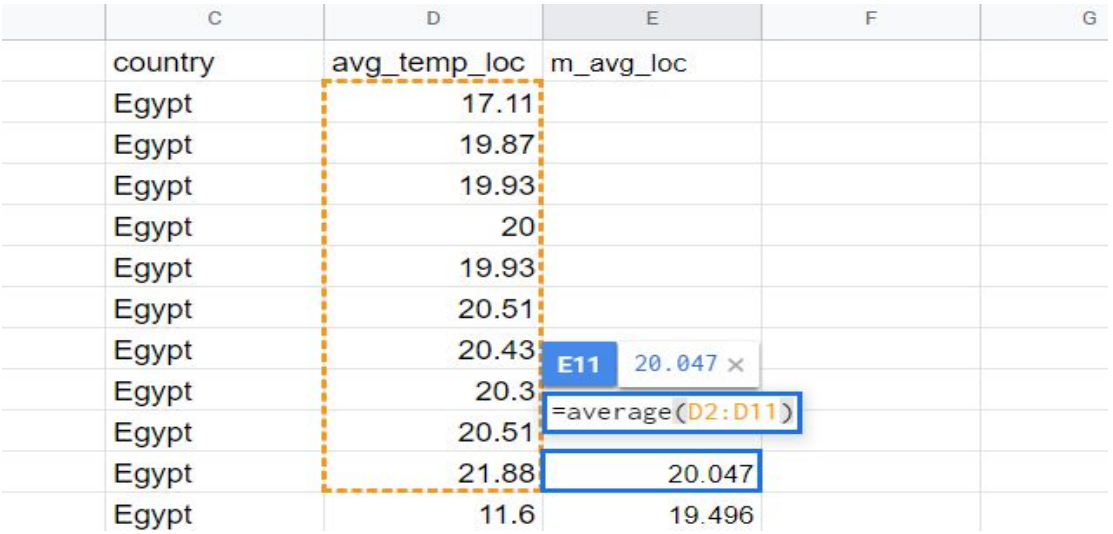
```
SELECT *
  FROM city_data
 WHERE city = 'Cairo'
```

Then I downloaded these data files as CSV files

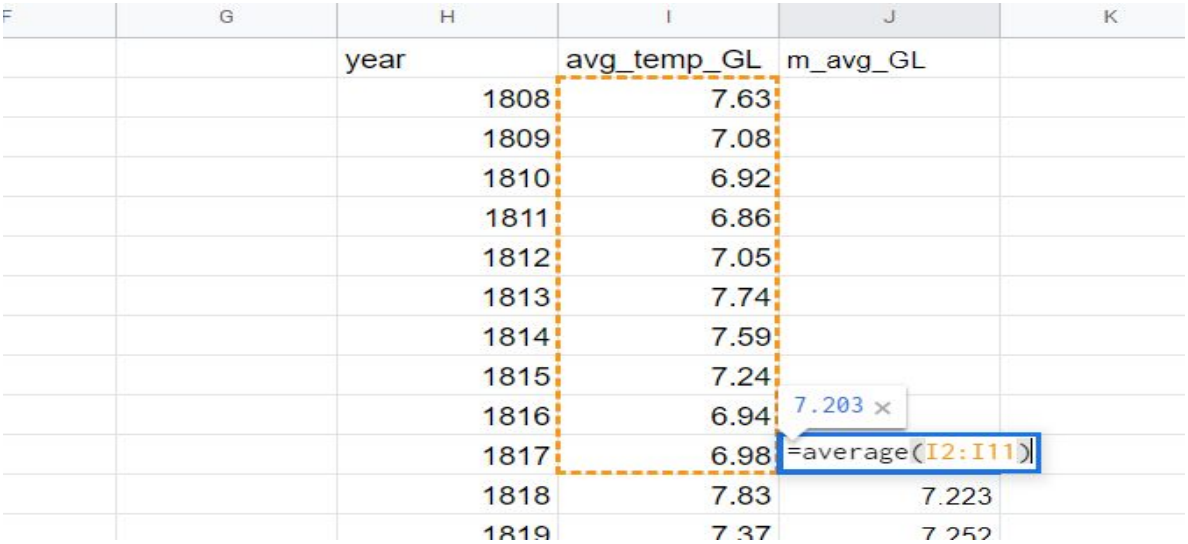
2-***Using Google Sheets*** to open the CSV data files

3-***Move average*** for recorded temp data for each 10 years (a decade) for global and local temp data

(Using average function on (D2 to D11) cells for local temp and on (I2 to I11) cells for global temp, and then dragged the formula down)



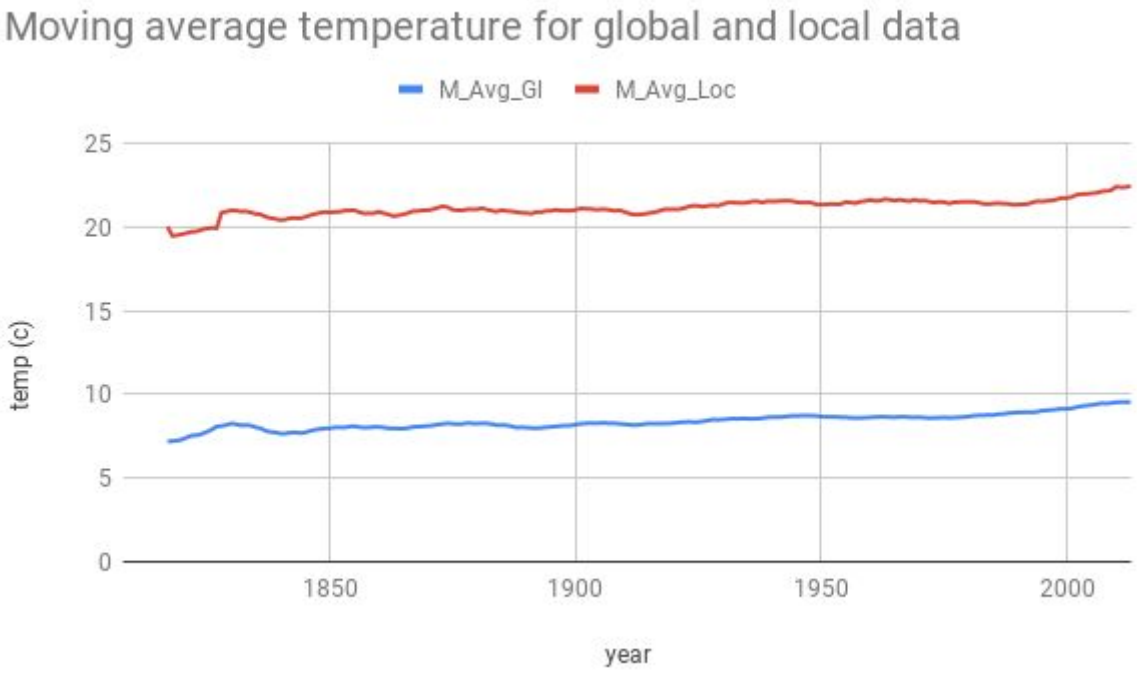
Calculating moving average for local temperature data



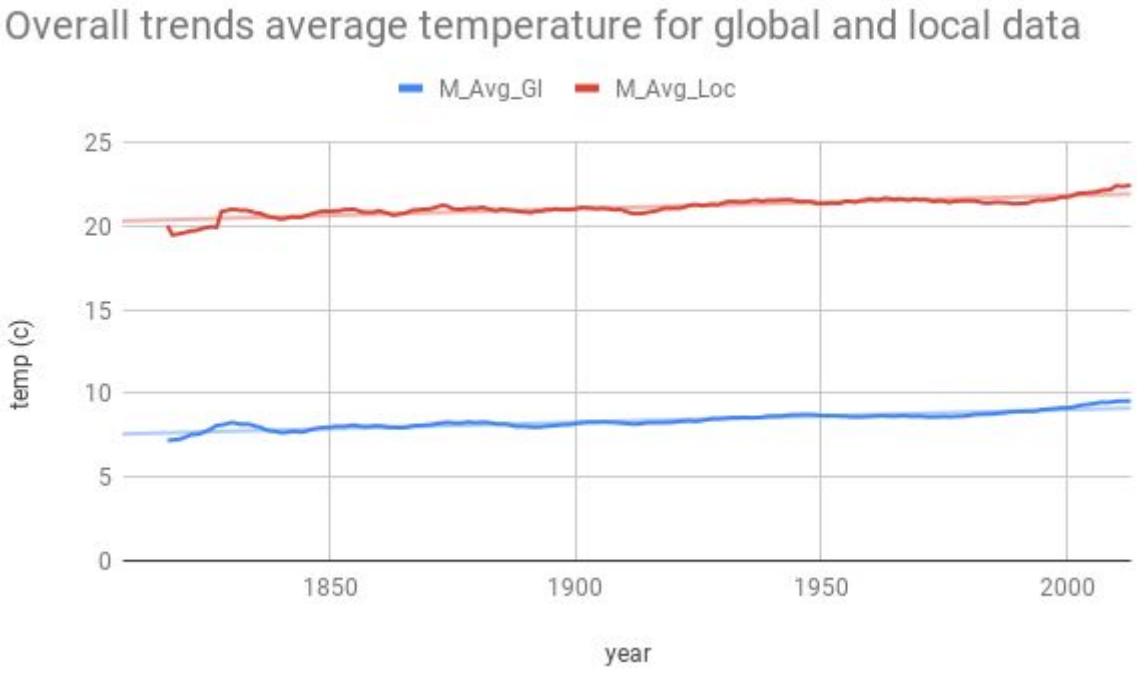
Calculating moving average for global temperature data

4- ***Plot line chart*** for new averages to smooth lines

2- Line charts



Line chart comparing global and local average temp over time



Line chart comparing overall trend for both global and local average temp over time

3- Observations

1- My city (Cairo) is hotter on average compared to the global average.

2- The difference has been consistent over time.

3- Changes in temperature in both local and global average has been consistent over time.

4- Both local and global overall trends are increasing.