EXPLORE WEATHER TRENDS

Aim:

To plot a line graph between the global and local average temperature and make an analysis out of it.

Tools used:

SQL: To extract the global and average temperature of London (Ontario, Canada).

Microsoft Excel: To plot a line graph between the extracted two entities.

Procedure:

STEP 1: To extract the Global and the average temperature of London.

- To extract the global temperature:

```
SELECT *
 FROM global_data
```

- To extract the London temperature:

```
SELECT *
 FROM city_data
WHERE country='Canada' AND city='London'
```

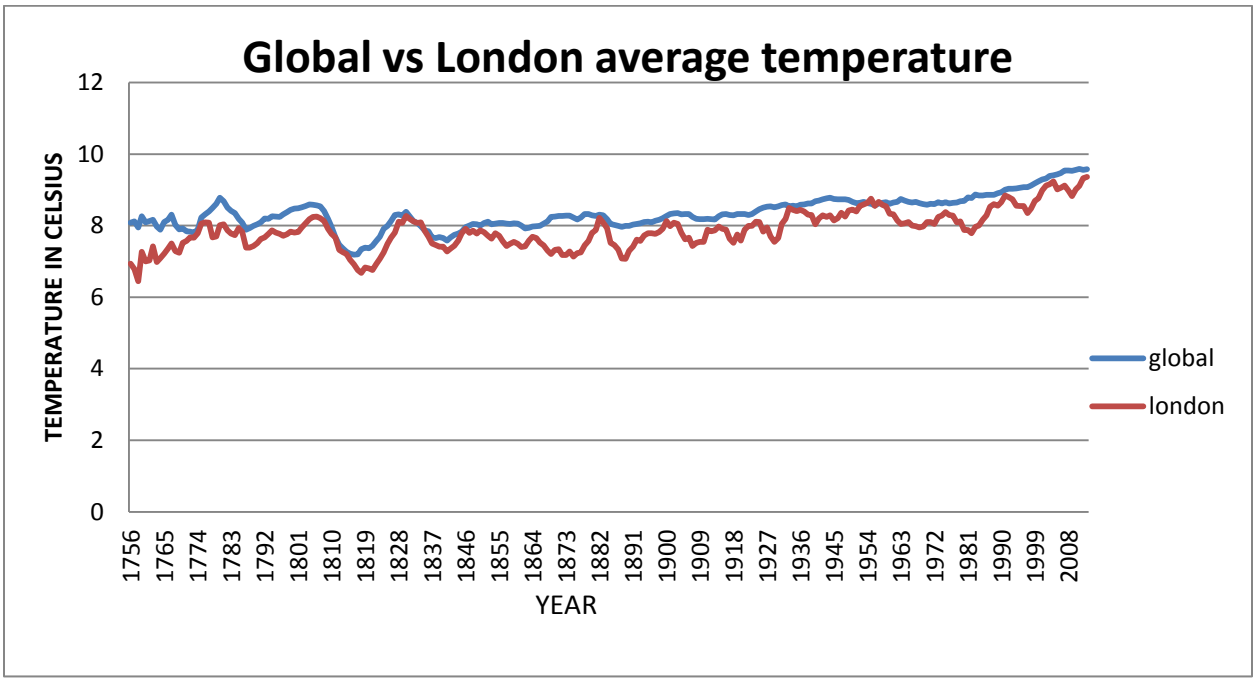
STEP 2: Download the file as csv file and open it.

STEP 3: compute the moving averages for both the data using the average formula and dragging the formula tab till the end.

Here, I have computed the moving averages from the period 1750-2013 with the interval of 7 years.

STEP 4: Once the moving averages is computed for average temperature for both global data and London.

The line chart is plotted as follows



Observation:

1.The global average temperature is always higher than the London average temperature.

2. There is a steady increase in temperature after 1980s.

3. In between the period of 1810to 1819, it can be seen that both the data are almost same.

4. The average temperature of global data varies from 7 to 10 degree Celsius whereas the London average temperature varies from 6.8 to 9.3.

CONCLUSION

Overall temperature of the earth is getting warmer day by day thus showing that the global warming is being taken place at rapid phase .