

EXPLORE WEATHER TRENDS

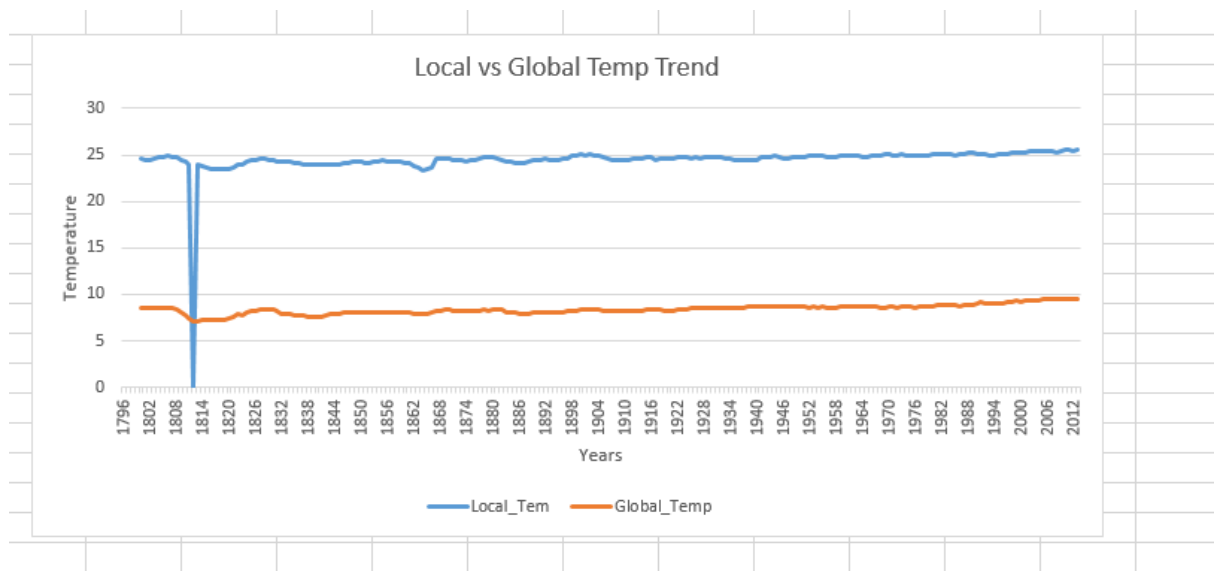
- For this project, the entire analysis and visualization has been done using SQL and EXCEL.
- The moving average is taken based on an interval of 5 years i.e. a 5 year moving average is used to plot the line chart.
- The key consideration was to check the uniformity of the data throughout the plot and the differences between both the trends.

The SQL Query used to fetch data from the tables is: -

```
SELECT
a.year as YEAR,
a.avg_temp as Local_Temp,
b.avg_temp as Global_Temp
FROM city_data a inner join global_data b
on a.year = b.year
and a.city = 'Pune';
```

Local Temperature trend vs Global Temperature Trend: -

Please note that the local city in my case is Pune (India). Below is the line chart of Pune.



Observations: -

- Looking at the line chart for both the local and Global temperature trend, it is clearly visible that the Local temperature is slightly higher than the Global temperature i.e. compared to the Global temperature the Local city is warmer.
- The Global temperature is noticeably consistent throughout with a slight increase in temperature during the period 1998-2011.
- However, in case of Local temperature there is a continuous ups and downs of the average temperature throughout with an increase in the temperature during the period 1966-2012.
- A sharp fall in the local temperature is noticeable during the period 1811-1816.