Explore Weather Trends – Report

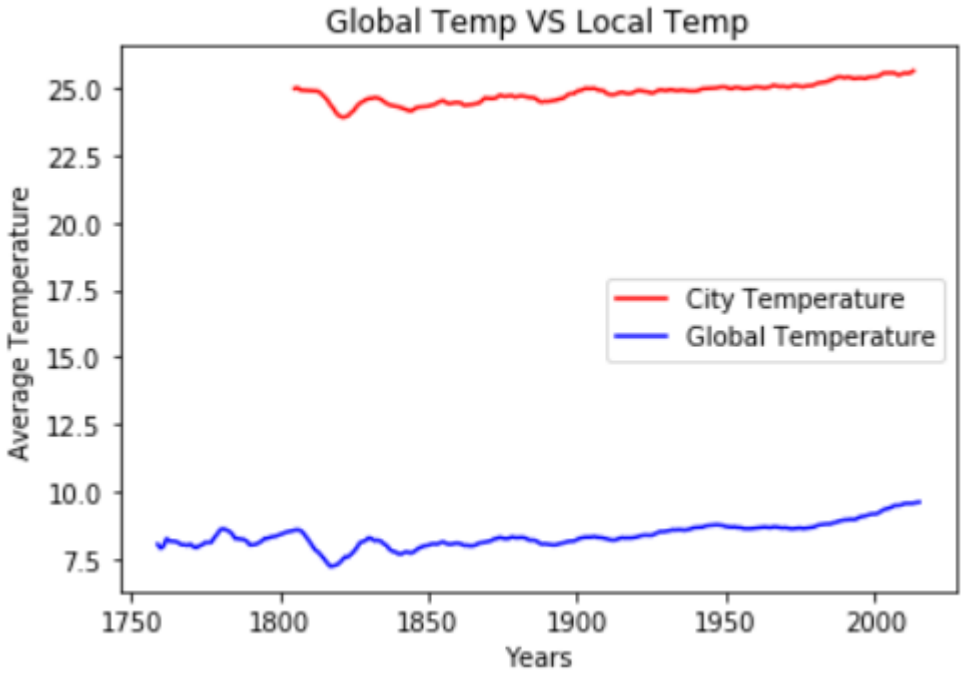
In this project, I am going to analyze local and global temperature data and compare the temperature trends of Bangalore, India to overall global temperature trends.

For this, I am going to use the dataset provided by Udacity which consists of three tables, global_data, city_list, city_data.

1.I used SQL to explore the dataset.

```
/*Let's explore the global_data first. */

SELECT *

 FROM global_data;


/*Now, Let's find the desired city from the city_list. */

SELECT *

 FROM city_list;


/*As we found the desired city Bangalore, India from the list, lets explore the trends for the particular city. */

SELECT *

 FROM city_data

 WHERE city = 'Bangalore' AND country = 'India';
```

2. Visualized the gathered data for more insights in Python.



Conclusions:

- From above graph, we can see that the difference in the local and global temperatures is consistent over the years.
- The global temperature over the years ranges between 5 degrees to 10 degrees.
- The local temperature over the years ranges between 23 degrees to 26 degrees.
- There is a drastic decrease in temperature both locally and globally during the 1810's to 1830's. After that, there are smalls fluctuations in temperature that can be noted.
- The overall trend shows that, the world's temperature is increasing and world is getting hotter.