# WEATHER TRENDS

**Project is all about comparing the data of average temperature in a particular city around the world to the average global temperature.**

## STEPS TAKEN:

1. **Finding the considerable big city near you in your country.**
   - **Select city from city_list where country like 'India';**
2. **Extracting the data of the city from the table city_data.**
   - **Select * from city_data where city like 'New Delhi';**
3. **Extracting the global data from table global_data.**
   - **Select * from global_data;**

**After extracting the data, opened it 'Excel 2016'.**

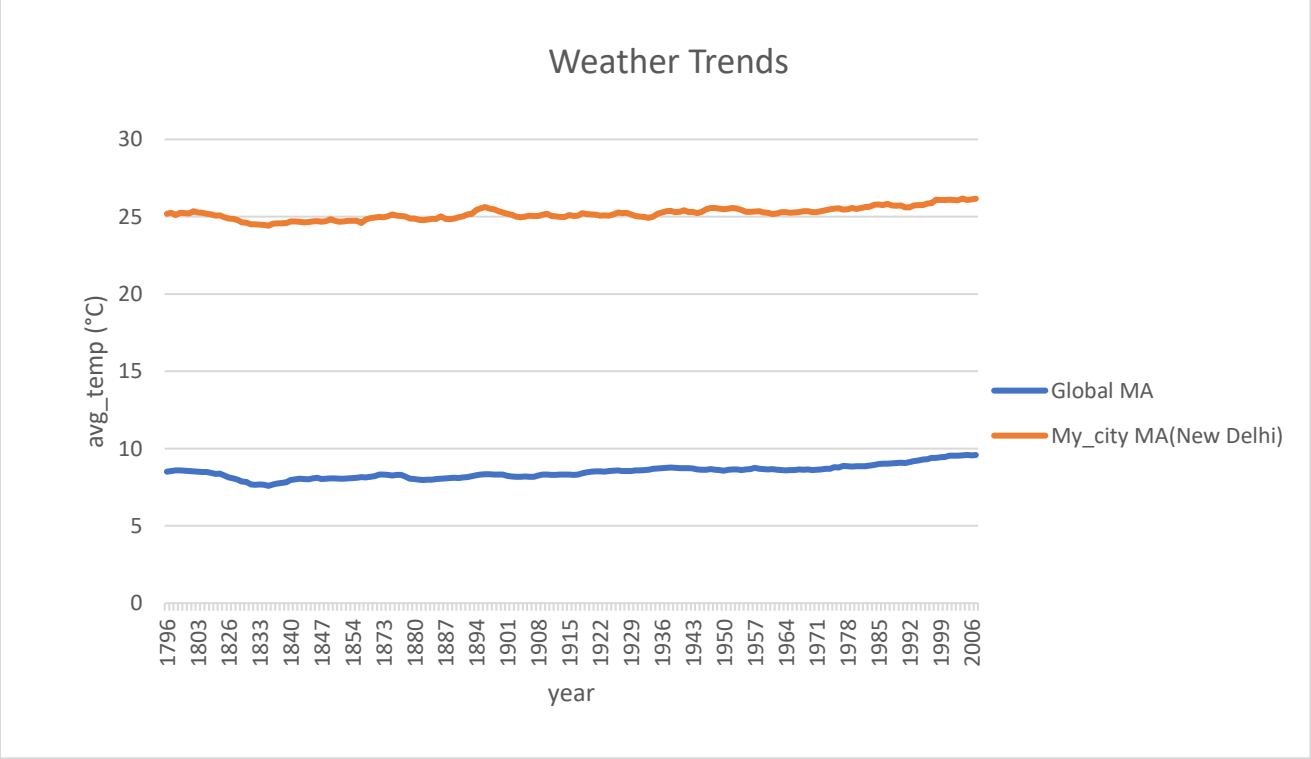
**Some of data in table 'city_data' was missing, so deleted the corresponding data in table 'global_data' and aligned them correspondingly.**

**7 years moving average: Using the function 'average' for 7 years as a range calculated the moving average for both tables 'city_data' and 'global_data'.**

**For e.g. Using function 'average' from B2:B8 i.e. 7 cells(years). Then selecting the rest of the cells to perform same operation on them too.**

**Line chart makes easy to visualize the trends between the two. Correlation coefficient is helpful too.**

# LINE CHART:



# OBSERVATIONS:

1. **From the above line chart, we can clearly see that My_city i.e Delhi is hotter.**
2. **From the past centuries we haven't seen any sudden change, but temperature is increasing gradually for sure.**
3. **Global and My_city temperature, both from past centuries were fluctuating a bit but from recent past decades showed some observable increment.**
4. **The gap between the two is almost consistent and has the difference of 16-17 degrees at almost every year.**
5. **Correlational coefficient:**
   **My_city MA: Global MA= 0.934641 .**