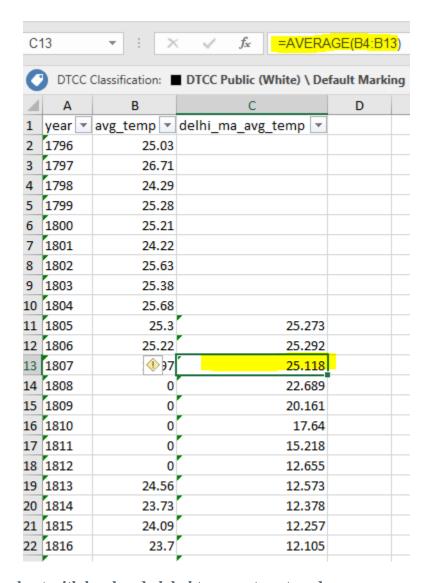
# Project: Weather trends

1. Extract the data: Downloaded the data from SQL query:

```
select * from city_list;
select * from city_data;
select * from global_data;
```

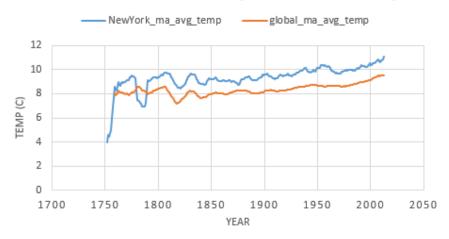
- 2. Open up the CSV: Calculated moving averages in Excel for New York and Delhi city.
- 3. Create a line chart: Created basic plot in Excel and used panda,matplotlib libraries for Python. I have taken 10 years of moving average for my plots. Some entry is empty for Delhi so I have mentioned '0'.

Used average function "=AVERAGE()" of 10 years for the cell and then format the same for all the cell.

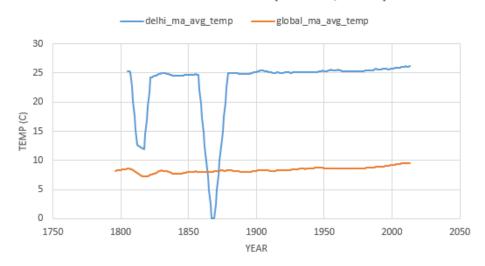


Line chart with local and global temperature trends

## MOVING AVERAGE TEMP (GLOBAL/NEW YORK)



#### MOVING AVERAGE TEMP (GLOBAL/DELHI)



Used below python script to create the plots:

import pandas as pd

df = pd.read\_csv("delhi.csv", index\_col=0)

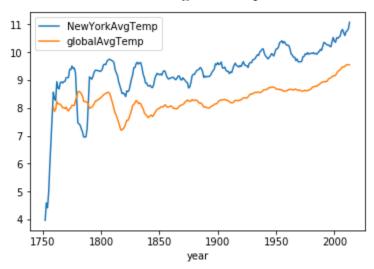
import matplotlib.pyplot as plt

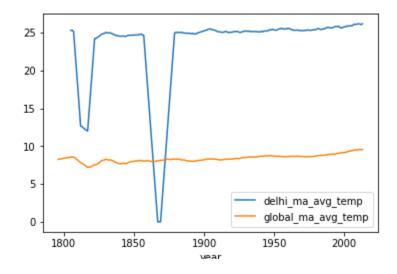
print(df.head())

df.plot()

## plt.show()

# Line chart with local and global temperature trends





#### 4. Observations:

New York is not have much variance from global temperature.

Obviously Delhi is hotter compared with global temperature.

Both, new York and Delhi has positive slope.

Compared to New York, Delhi is warmer and slope is on increasing side.