1. I used sql to get the data out from the database. Here is my code:

   select * from city_list;

   select * from city_data where city='New York';

   select * from global_data;

2. I used Excel to plot the data chart (x-axis: year; y-axis: temperature), and use 10-year "average(:)" method to get the moving average for both NY and Global. The reason I pick 10year period is that I want to get an average sense of temperature trends instead of yearly-average, and in the meantime still get enough data points to show the overall trends. See below:
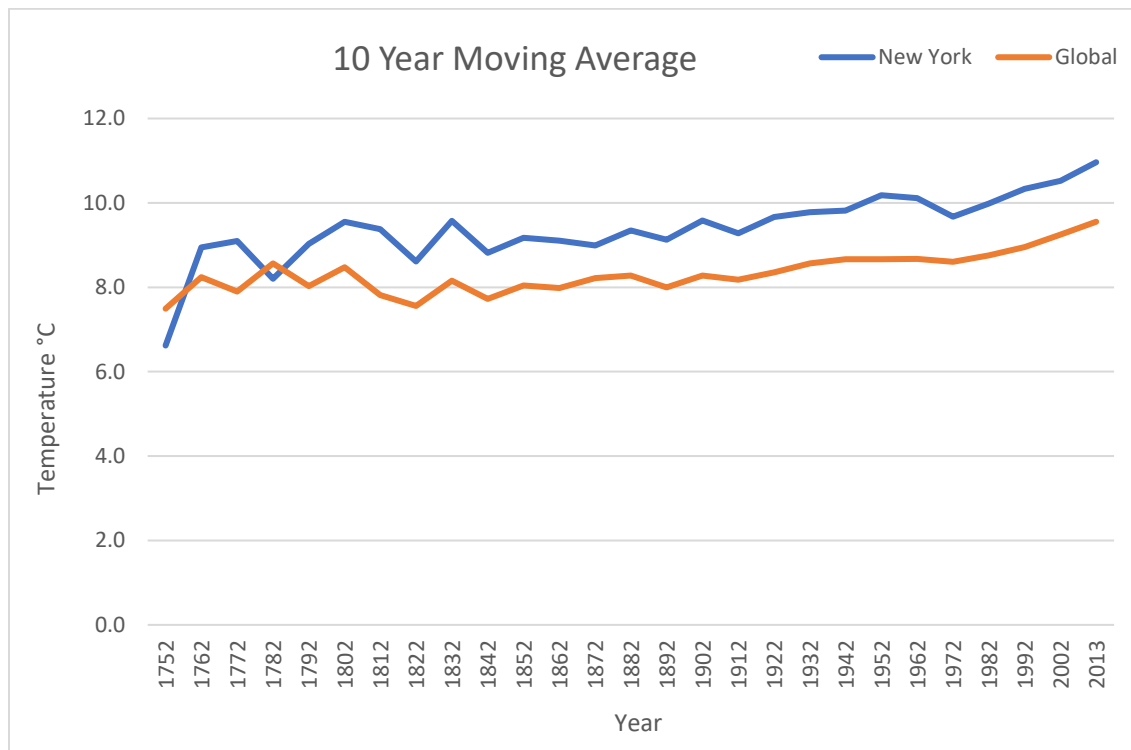
Summary

1. Overall temperature trends (both New York and Global) increase (getting hotter) from 1752 to 2013.
2. New York is hotter on average compared to the global average, except in the 1772-1782 period and year before 1752.
3. New York temperature change is consistently about 1.2 degree C higher than the Global over the last few hundred years.
4. New York temperature increase more over the last few hundred years compare to Global data. (1752-2013: New York 6.6 -> 11 C, Global 7.5 -> 9.6 C)