**Homework 1**
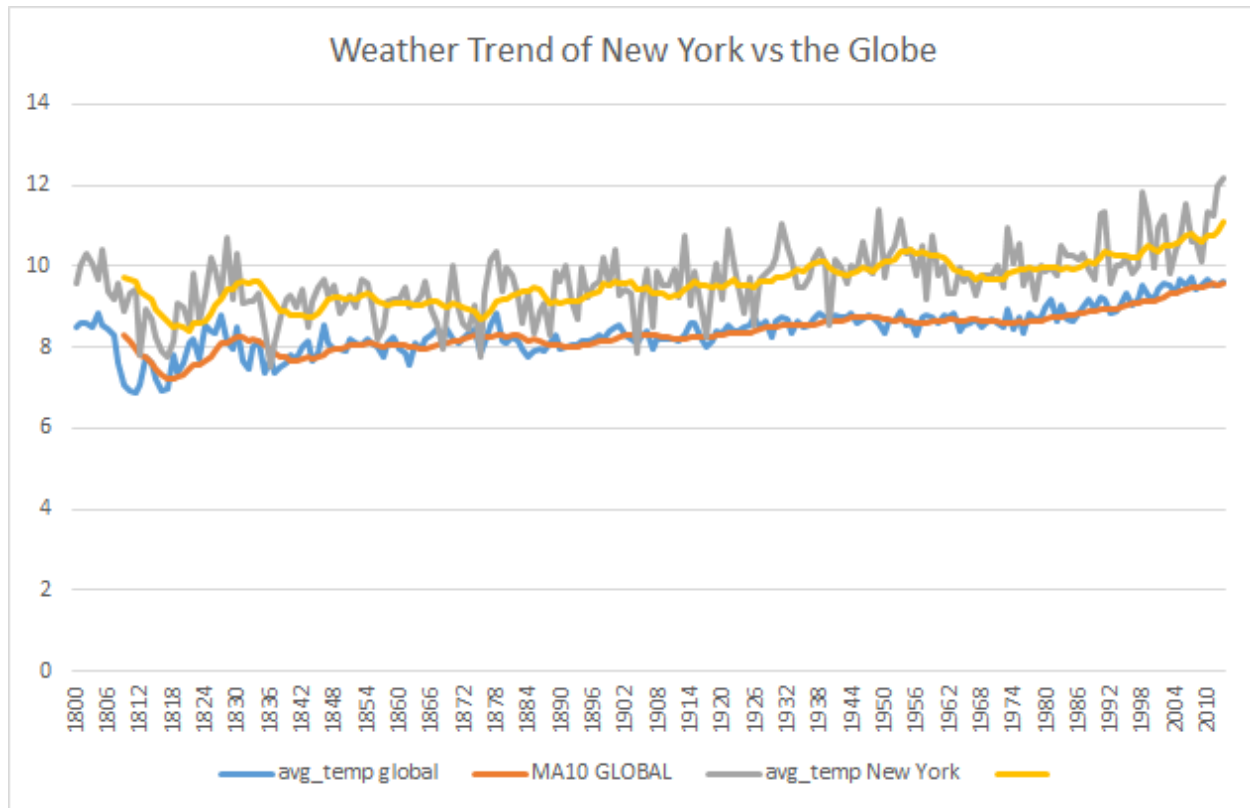


Obtaining the Global Data on MySQL:

Select year, avg_temp
From global_data
Where year >=1800

Obtaining the City Data for New York on MySQL

Select year, avg_temp
From city_data
Where year >=1800 and city = 'New York'

**Calculating the Moving Average:** I used the "AVERAGE" function on Excel and calculated the average temperature from the global and New York data for every ten years.

**Similarities**

- In both New York and around the world, the temperature dropped by a few degrees in the mid 1810s. It turns out that the temperature drop around the world and in New York was due to the 1815 Tambora eruption which caused a temporary drop in the Earth's average land temperature of about 1 °C.
- In both New York and around the world, the temperature gradually increases over time. This is a result of global warming and greenhouse gases.

**Differences**

- New York experienced an increase in temperature followed by a subsequent decrease in temperature during the 1950s, whereas the world as a whole did not see its temperature fluctuate.
- Overall, the global temperature does not fluctuate that much except during the mid 1810s when volcanic eruptions decreased the world's temperature. On the other hand, New York's temperature experiences multiple fluctuations even after the Tambora eruption in the 1810s.
- Overall, New York's temperature is a few degrees warmer than the rest of the world.