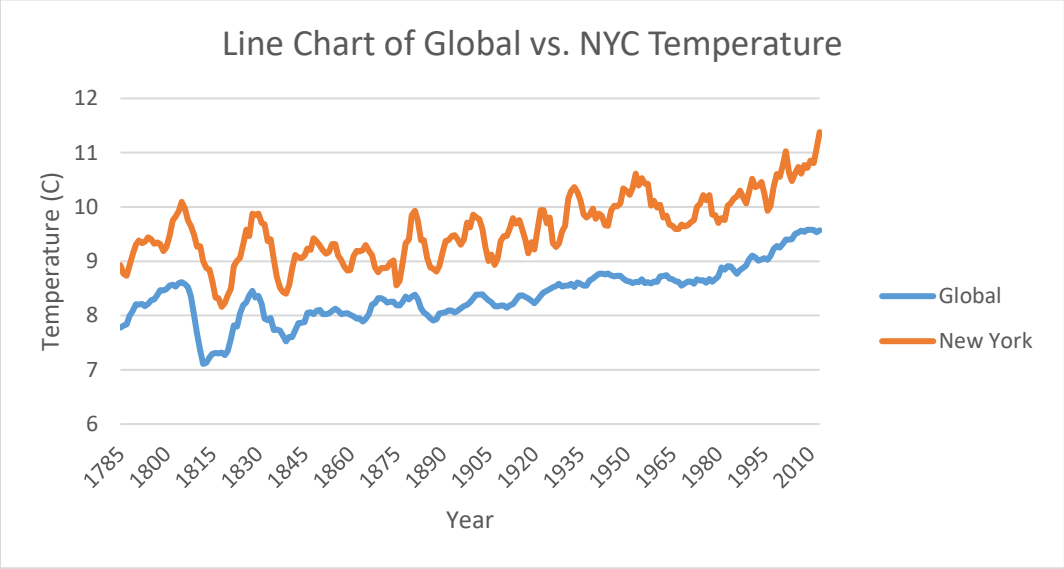
Richard Zheng

Project 1: Weather Trends

Outline

- Queried data from SQL database using the following query:
  SELECT global_data.year,global_data.avg_temp AS avg_temp_global, city_data.avg_temp AS avg_temp_nyc FROM global_data LEFT JOIN city_data ON global_data.year = city_data.year WHERE city = 'New York'
- Cleaned data and created visuals using Excel.
- Deleted data from 1750-1780 because some of the data was missing from NYC
- 5 year simple moving average was calculated by taking the average in 5 year increments
- I wanted to compare the global weather trend with the NYC weather trend in a combined line chart that clearly compares the year to year changes in temperature.

Line Chart



Observations

- NYC is hotter, than average, when compared to the average global temperature. This has been consistent over time.
- NYC's changes in temperature over time follow the global trend but there is more year to year fluctuations in temperature.
- Both global temperature and NYC temperature trends show that the overall temperature increased over the past few hundred years. There are times where temperature declined, on both global and NYC, but overall the trend is upward.
- In the past 10 years, the temperature of the world has flattened, however the temperature of NYC has been increasing.