1. As expected the temperature rises as we approach the equator. The lowest observed temperature in the southern hemisphere is approximately 40 degrees Fahrenheit and the lowest observed temperature in the norther hemisphere, where almost two-thirds of the cities in the sample are located, is approximately – 40 degrees Fahrenheit. The temperature at the equator was around 80 degrees Fahrenheit with a few exceptions. The highest observed temperature was approximately 100 degrees Fahrenheit for a city located slightly north of equator.
2. The City Latitude vs Temperature plot also shows that the observed temperatures between the Tropic of Cancer and the Tropic of Capricorn remained more or less constant or close to 80 degree Fahrenheit.
3. Could not establish the a correlation between the latitude and humidity, windspeed and cloudiness. However, looking at the City Latitude vs. Humidity and City Latitude vs. Windspeed e plots, windspeed and humidity seem to be inversely related.
4. One would expect to see some relation between cloudiness and humidity. The more water content in the air, greater humidity. However, the observed data does not show such relationship.
5. Factors such as altitude of the place, topography and geographic influences that impact the climate of a city are not part of the analysis.
6. Finally, instead of using current observations, if we used average observations (over time) would have helped in establishing the relationship between latitude and the climate.