Data Analysis

1. For both the northern and southern hemispheres, there is a very slight, positive association between the cloudiness and the latitude of a city. The scatter plots in this notebook for those two components show this as the data points being dispersed over the graph. We can therefore draw the conclusion that the latitude of a city has little to no effect on how cloudy it is.

2. Between a city's latitude and wind speed (mph), there is a very faint positive link for the northern hemisphere and a very weak negative correlation for the southern hemisphere. I believe that the northern and southern hemispheres' different seasons must have something to do with the southern hemisphere's negative correlation and the northern hemisphere's positive correlation. Latitude has some, but not much, effect on wind speed in both hemispheres. However, it is significant to note that the correlation between these two elements for the southern hemisphere is larger than the correlation between these two factors for the northern hemisphere.

3. The maximum temperature in the northern hemisphere is strongly inversely correlated with the latitude of a city. That is, in the northern hemisphere, a city's maximum temperature will typically be lower than cities closer to the equator as you move farther away from the equator (latitude increases).