1. There is a strong relationship between latitude and max temperature. The max temperature increases as you get closer to the equator (0° Lat). It is also observed that the southern hemisphere cities (negative Lat) have higher max temperatures than northern cities (positive Lat) at this time of year.
2. There seems to be a concentration of high humidity for cities close to the equator. There are also few cities with low humidity around the equator.
3. There is not a strong relationship between cloudiness and latitude. However, you can see bands of cities at 0, 20, 40, 75, 90% humidity. This may be due to the specificity of how humidity is reported.
4. There does not seem to be a strong relationship between latitude and wind speed.