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COP 4283

Visualization #1

Sulfur Dioxide
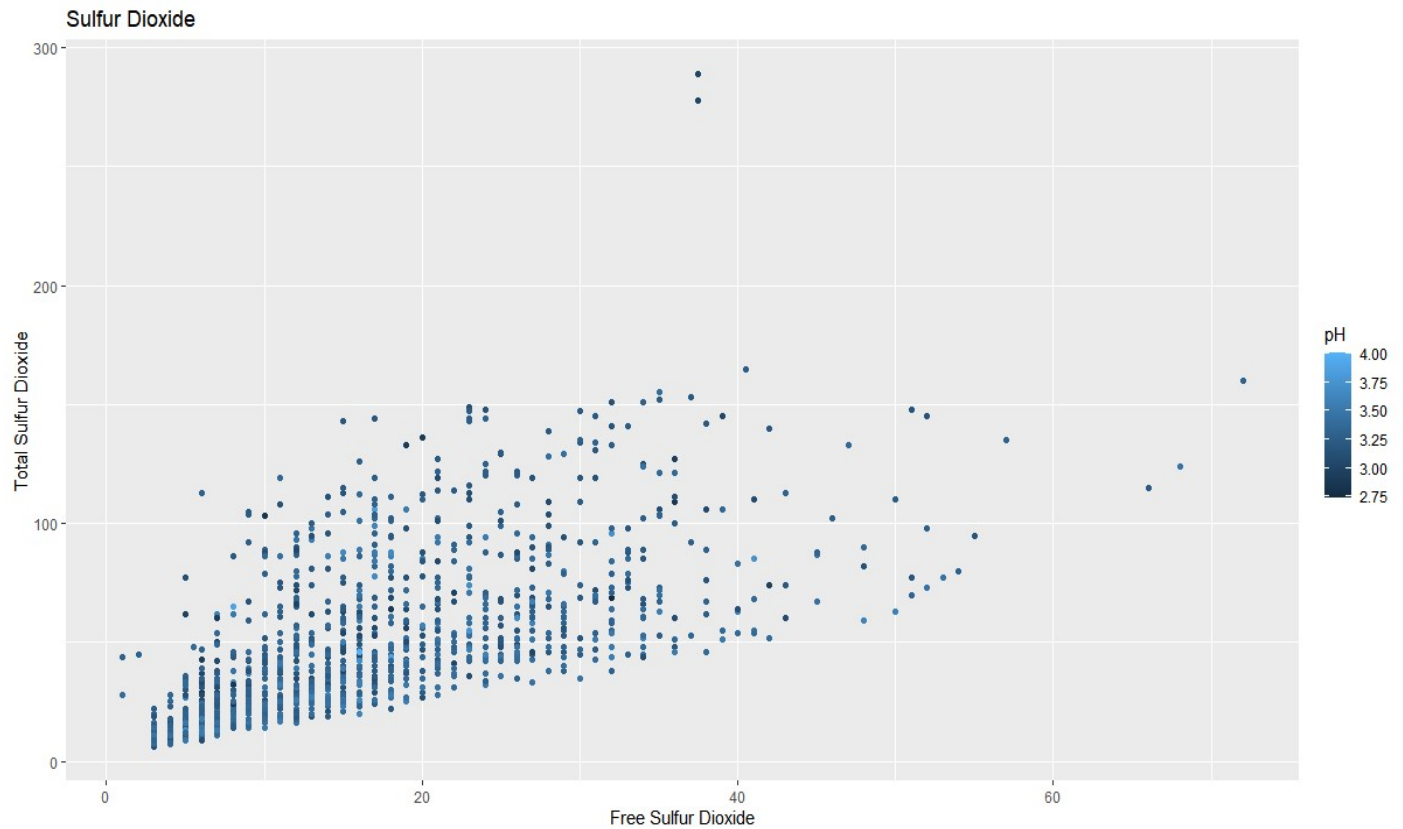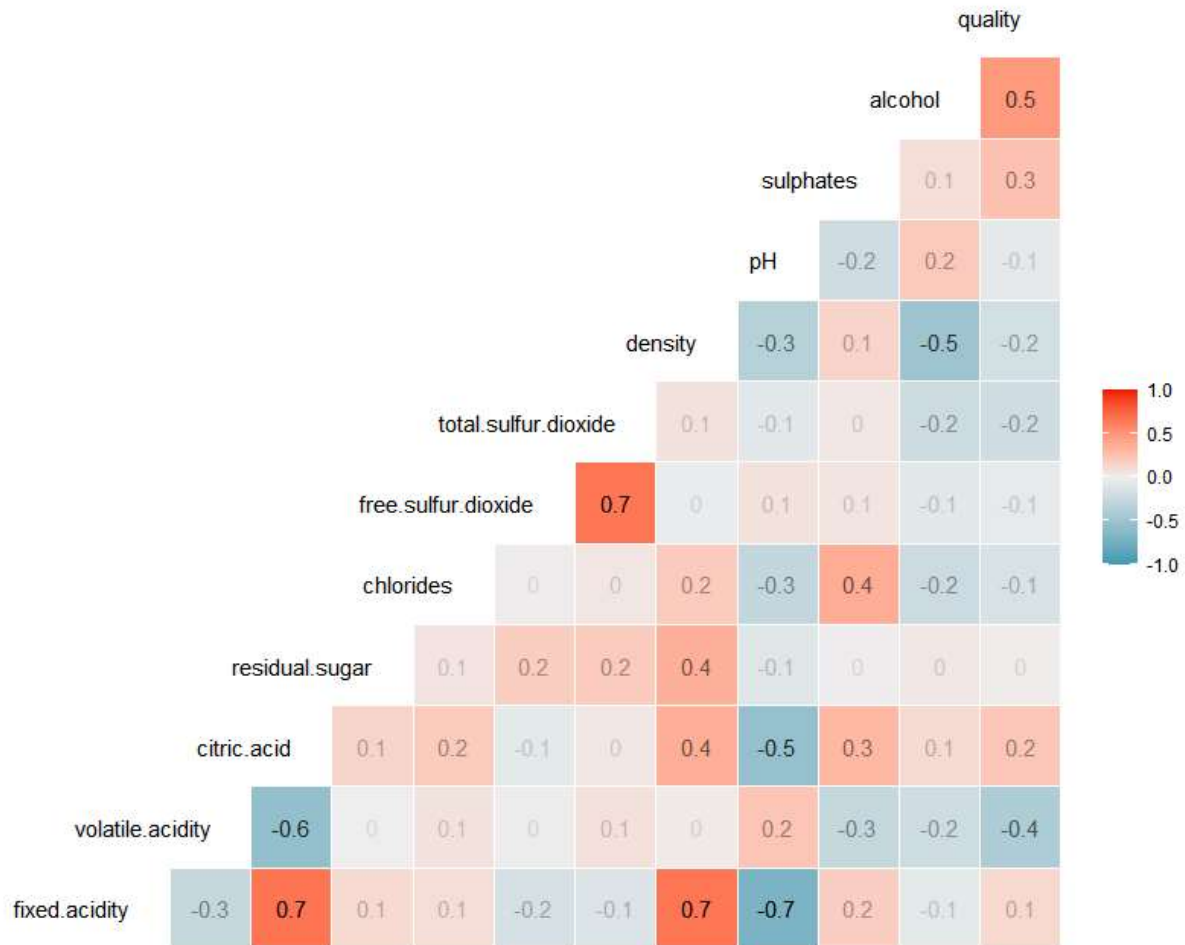

I used the variables free sulfur dioxide, total sulfur dioxide and pH to see the correlation between the points. Through this scatterplot, I noticed that there was a positive correlation between the free sulfur dioxide and total sulfur dioxide. Additionally, I noticed that there was a higher pH when there was less of free and total sulfur dioxide. I also noticed that there were a few outliers with low pH levels and high total sulfur dioxide compared to free sulfur dioxide, as well as outliers with a high free sulfur dioxide compared to total sulfur dioxide.

Visualization #2

For this correlation plot, I used all of the variables to see which variables have the highest similarities to each other, whether it be positive or negative correlations. I found that there are varying levels of correlation in the variables. Specifically, there are high correlations between fixed acidity and citric acid, free sulfur dioxide and total sulfur dioxide, and fixed acidity and pH. Whereas there are low/no correlations between pH and quality, residual sugar and alcohol, and sulphates and alcohol. This correlation plot also helps me to understand the first scatterplot between free sulfur dioxide and total sulfur dioxide.