EDS Theory Assignment 2

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Dataset:-Wine Quality.csv

Problem Statements:-
1. Describe the values of the wine quality dataset
2. Display the mean of fixed acidity present in the wine.
3. Display maximum percentage of alcohol present in the wine.
4. Display aggregation of minimum citric acid present in the wine.
5. Check for any duplicate rows in the dataset.
6. Display the record of 1st 20 wines in the dataset.
7. Convert the free sulphur oxide column in float datatype.
8. Display missing values present in the chlorides column.
9. Display reviews of wine in lowercase.
10. Display quantiles of residual sugar present in wine.
11. Display correlation between different qualities of wine.
12. Drop the column with missing values.
13. Display the 'red' wine with 'volatile acidity' greater than 0.5.
14. Display the covariance of pH level in wine.
15. Display the dataset using pH by using stacked operation.
16. Display the median of sulphates present in the wine.
17. Multiply the density column by 5.

18. Replace the name of white wine by red wine and white wine by red wine.
19. Fill all missing values with the word 'empty'
20. Convert the 'wine type' column to categorical data.