Here, The Weather Dataset is a time-series data set with per-hour information about the weather conditions at a particular location. It records Temperature, Dew Point Temperature, Relative Humidity, Wind Speed, Visibility, Pressure, and Conditions

This data is available as a CSV file. Analyze this data set using the Pandas DataFrame

Q.) Find all the unique 'Wind Speed' values in the data.

Q.) Find the number of times when the 'Weather is exactly Clear'.

Q.) Find the number of times when the 'Wind Speed was exactly 4 km/h'.

Q.) Rename the column name 'Weather' of the dataframe' to 'Weather Condition'.

Q.) What is the Variance of 'Relative Humidity' in this data ?

Q.) Find out all the Null Values in the data.

Q.) What is the mean 'Visibility'?

Q.) Find all instances when 'Snow' was recorded.

Q.) Find all instances when 'Wind Speed is above 24' and 'Visibility is 25'.

Q.) What is the Mean value of each column against each Weather condition?

Q.) What is the Minimum & Maximum value of each column against each weather condition?

Q.) Find all instances when 'Weather is Clear' or 'Visibility' is above 40.

Use following commands in this project.

*head() - It shows the first N rows in the data (by default, N=5).

* shape - It shows the total no. of rows and no. of columns of the dataframe

* index - This attribute provides the index of the dataframe

* columns - It shows the name of each column

*dtypes - It shows the data-type of each column

* unique()- - In a column, it shows all the unique values. It can be applied on a single column only, not on the whole dataframe.

* nunique() - It shows the total no. of unique values in each column. It can be applied on a single column as well as on the whole dataframe.

* count - It shows the total no. of non-null values in each column. It can be applied on a single column as well as on the whole dataframe.

* value_counts - In a column, it shows all the unique values with their count. It can be applied on a single column only.

* info() - Provides basic information about the dataframe.