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

df['Wind Speed\_km/h']**.**unique()

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

df[df['Weather'] **==** 'Clear']**.**shape[0]

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

df[df['Wind Speed\_km/h'] **==** 4]**.**shape[0]

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

df**.**rename({'Weather': 'Weather Condition'}, axis**=**1, inplace**=True**)

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

df['Rel Hum\_%']**.**var()

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

df**.**isnull()**.**sum()

Q.) What is the mean 'Visibility'?

df['Visibility\_km']**.**mean()

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

df[df['Weather Condition']**.**str**.**contains('Snow')]

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

df[(df['Wind Speed\_km/h'] **>** 24) **&** (df['Visibility\_km'] **==** 25) ]

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

df**.**groupby('Weather Condition')**.**mean()

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

df**.**groupby('Weather Condition')**.**max()

df**.**groupby('Weather Condition')**.**min()

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

df[(df['Weather Condition']**.**str**.**contains('Clear')) **|** (df['Visibility\_km'] **>** 40)]