1) a=dd\_copy['wind\_speed'].unique()

print(a)

Printing all the unique values of wind speed using unique function.

[ 4 7 6 9 15 13 20 22 19 24 30 35 39 32 33 26 44 43 48 37 28 17 11 0

83 70 57 46 41 52 50 63 54 2]

2) dd\_copy['weather'].value\_counts()

Using this function we can find count of all categories containing weather.

1326

times the weather is clear.

3) dd\_copy.loc[dd\_copy['wind\_speed']==4]

Finding all the data points where the wind speed is exactly 4. 474times it has occurred.

4) dd\_copy.isnull().sum().sum()

Finding out all the null values in the data and there are no null values.

5) dd\_copy.rename(columns={'Weather':'Weather\_Condition'})

Renaming the column ‘Weather’ to ‘Weather Condition’.

6) dd\_copy['visibility'].mean()

Finding mean of visibility. Mean is 27.66444672131151

7) dd\_copy['press'].std()

Finding standard deviation of Pressure column. STD is 0.844047459486474

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8) dd\_copy['rel\_hum'].var()

Variance of relative humidity. The value is 286.2485501984998

9) dd\_copy.loc[dd\_copy['weather']=='Snow']

390 instances when ‘Snow’ was recorded.

10) dd\_copy.loc[(dd\_copy['wind\_speed']>24) & (dd\_copy['visibility']==25)]

308 instances when 'Wind Speed is above 24' and 'Visibility is 25'.

11) dd\_copy.groupby('weather').mean()

12) dd\_copy.groupby('weather').min()

dd\_copy.groupby('weather').max()

13) dd\_copy.loc[dd\_copy['weather']=='Fog']

150 instances.

14) dd\_copy.loc[(dd\_copy['weather']=='Clear') | (dd\_copy['visibility']==40)]

1326 instances.

15) dd\_copy.loc[(dd\_copy['weather']=='Clear') & (dd\_copy['rel\_hum']>50)]

1070 instances.