

In [1]: `import pandas as pd`
`df = pd.read_csv('weather_data.csv')`
`df`

Out[1]:

	day	temperature	windspeed	event
0	1/1/2017	32.0	6.0	Rain
1	1/4/2017	NaN	9.0	Sunny
2	1/5/2017	28.0	NaN	Snow
3	1/6/2017	NaN	7.0	NaN
4	1/7/2017	32.0	NaN	Rain
5	1/8/2017	NaN	NaN	Sunny
6	1/9/2017	NaN	NaN	NaN
7	1/10/2017	34.0	8.0	Cloudy
8	1/11/2017	40.0	12.0	Sunny

In []:

In [6]: `df['temperature'].median()`

Out[6]: 32.0

In [7]: `df['windspeed'].median()`

Out[7]: 8.0

In [8]: `df['event'].mode()`

Out[8]: 0 Sunny
dtype: object

In [9]: `df.fillna(0)`

Out[9]:

	day	temperature	windspeed	event
0	1/1/2017	32.0	6.0	Rain
1	1/4/2017	0.0	9.0	Sunny
2	1/5/2017	28.0	0.0	Snow
3	1/6/2017	0.0	7.0	0
4	1/7/2017	32.0	0.0	Rain
5	1/8/2017	0.0	0.0	Sunny
6	1/9/2017	0.0	0.0	0
7	1/10/2017	34.0	8.0	Cloudy
8	1/11/2017	40.0	12.0	Sunny

In [11]: `df.fillna({`
`'temperature' : 32.0,`
`'windspeed' : 8.0,`
`'event' : 'Sunny',`
`})`

Out[11]:

	day	temperature	windspeed	event
0	1/1/2017	32.0	6.0	Rain
1	1/4/2017	32.0	9.0	Sunny
2	1/5/2017	28.0	8.0	Snow
3	1/6/2017	32.0	7.0	Sunny
4	1/7/2017	32.0	8.0	Rain
5	1/8/2017	32.0	8.0	Sunny
6	1/9/2017	32.0	8.0	Sunny
7	1/10/2017	34.0	8.0	Cloudy
8	1/11/2017	40.0	12.0	Sunny

In [19]: `df.dropna(how = 'all')`

Out[19]:

	day	temperature	windspeed	event
0	1/1/2017	32.0	6.0	Rain
1	1/4/2017	NaN	9.0	Sunny
2	1/5/2017	28.0	NaN	Snow
3	1/6/2017	NaN	7.0	NaN
4	1/7/2017	32.0	NaN	Rain
5	1/8/2017	NaN	NaN	Sunny
6	1/9/2017	NaN	NaN	NaN
7	1/10/2017	34.0	8.0	Cloudy
8	1/11/2017	40.0	12.0	Sunny

In [44]: `df.dropna(thresh = 3)`

Out[44]:

	day	temperature	windspeed	event
0	1/1/2017	32.0	6.0	Rain
1	1/4/2017	NaN	9.0	Sunny
2	1/5/2017	28.0	NaN	Snow
4	1/7/2017	32.0	NaN	Rain
7	1/10/2017	34.0	8.0	Cloudy
8	1/11/2017	40.0	12.0	Sunny

In [1]: `import pandas as pd`
`import numpy as np`
`df = pd.read_csv('weather_data1.csv')`
`df`

Out[1]:

	day	temperature	windspeed	event
0	01-01-2017	32	6.0	Rain
1	01-04-2017	-99999	9.0	Sunny
2	01-05-2017	28	NaN	Snow
3	01-06-2017	-99999	7.0	Sunny
4	01-07-2017	32	-99999.0	Rain
5	01-08-2017	-99999	-99999.0	Sunny
6	01-09-2017	-99999	-99999.0	Sunny
7	01-10-2017	34	8.0	Cloudy
8	01-11-2017	40	12.0	Sunny

In [3]: `df1 = df.replace(-99999,np.NaN)` *#replace function is used to replace a specific value*
`df1` *#parameters are (replacing value,and what to be replace*
`d)`

Out[3]:

	day	temperature	windspeed	event
0	01-01-2017	32.0	6.0	Rain
1	01-04-2017	NaN	9.0	Sunny
2	01-05-2017	28.0	NaN	Snow
3	01-06-2017	NaN	7.0	Sunny
4	01-07-2017	32.0	NaN	Rain
5	01-08-2017	NaN	NaN	Sunny
6	01-09-2017	NaN	NaN	Sunny
7	01-10-2017	34.0	8.0	Cloudy
8	01-11-2017	40.0	12.0	Sunny

In []: *#suppose we have 2 or 3 values to be replaced then use list*
`# [-99999,-88888,np.NaN]`

In [4]: `df`

Out[4]:

	day	temperature	windspeed	event
0	01-01-2017	32	6.0	Rain
1	01-04-2017	-99999	9.0	Sunny
2	01-05-2017	28	NaN	Snow
3	01-06-2017	-99999	7.0	Sunny
4	01-07-2017	32	-99999.0	Rain
5	01-08-2017	-99999	-99999.0	Sunny
6	01-09-2017	-99999	-99999.0	Sunny
7	01-10-2017	34	8.0	Cloudy
8	01-11-2017	40	12.0	Sunny

In [7]: `df2 = df.replace({` *#to replace by each row use dictionary*
`'temperature' : -99999,`
`'windspeed' : -99999,`
`},np.NaN)`
`df2`

Out[7]:

	day	temperature	windspeed	event
0	01-01-2017	32.0	6.0	Rain
1	01-04-2017	NaN	9.0	Sunny
2	01-05-2017	28.0	NaN	Snow
3	01-06-2017	NaN	7.0	Sunny
4	01-07-2017	32.0	NaN	Rain
5	01-08-2017	NaN	NaN	Sunny
6	01-09-2017	NaN	NaN	Sunny
7	01-10-2017	34.0	8.0	Cloudy
8	01-11-2017	40.0	12.0	Sunny

In []: `#new = df.replace({`
`# -99999: np.NaN`
`# No Event : 'Sunny' #if to replace with exact value in any row or column use this`
`#})`
`#new`

In [3]: `import pandas as pd`
`reg = pd.read_csv('weather_data1.csv')`
`reg`

Out[3]:

	day	temperature	windspeed	event
0	01-01-2017	32	6mph	Rain
1	01-04-2017	-99999	9	Sunny
2	01-05-2017	kms	NaN	Snow
3	01-06-2017	-99999	mph	Sunny
4	01-07-2017	32	-99999	Rain
5	01-08-2017	-99999	-99999	Sunny
6	01-09-2017	-99999	-99999	Sunny
7	01-10-2017	34	8	Cloudy
8	01-11-2017	40	12	Sunny

In [6]: `new_reg = reg.replace('[A-Za-z]', '', regex=True)` *#parametre removes all the words starts f*
rom A-Z&a-z so event gone
`new_reg`

Out[6]:

	day	temperature	windspeed	event
0	01-01-2017	32	6	
1	01-04-2017	-99999	9	
2	01-05-2017		NaN	
3	01-06-2017	-99999		
4	01-07-2017	32	-99999	
5	01-08-2017	-99999	-99999	
6	01-09-2017	-99999	-99999	
7	01-10-2017	34	8	
8	01-11-2017	40	12	

In [11]: `new_reg1 = reg.replace({`
`'temperature' : '[A-Za-z]',`
`'windspeed' : '[A-Za-z]',`
`}, '', regex =True)`
`new_reg1`

Out[11]:

	day	temperature	windspeed	event
0	01-01-2017	32	6	Rain
1	01-04-2017	-99999	9	Sunny
2	01-05-2017		NaN	Snow
3	01-06-2017	-99999		Sunny
4	01-07-2017	32	-99999	Rain
5	01-08-2017	-99999	-99999	Sunny
6	01-09-2017	-99999	-99999	Sunny
7	01-10-2017	34	8	Cloudy
8	01-11-2017	40	12	Sunny

In []: *#replace function also helps in changing the entire list*

In [12]: `last = pd.DataFrame({`
`'score' : ['exceptional','good','oustanding','good'],`
`'studentname' : ['soda','sunny','kukk','nag'],`
`})`
`last`

Out[12]:

	score	studentname
0	exceptional	soda
1	good	sunny
2	oustanding	kukk
3	good	nag

In [15]: `new_last = last.replace(['exceptional','good','oustanding','good'],[7,8,9,9])`
`new_last`

Out[15]:

	score	studentname
0	7	soda
1	9	sunny
2	9	kukk
3	9	nag

In []: