In [1]:

import pandas as pd
dataset=pd.read_csv(r"C:\Users\RacksonsIT\Desktop\Data Science Session\Batch 8 Symboisis 6

In [2]:

dataset

Out[2]:

	POSTED_BY	UNDER_CONSTRUCTION	RERA	BHK_NO.	BHK_OR_RK	SQUARE_FT	RE				
0	Owner	0	0	2	ВНК	1300.236407					
1	Dealer	0	0	2	ВНК	1275.000000					
2	Owner	0	0	2	ВНК	933.159722					
3	Owner	0	1	2	ВНК	929.921143					
4	Dealer	1	0	2	ВНК	999.009247					
29446	Owner	0	0	3	ВНК	2500.000000					
29447	Owner	0	0	2	внк	769.230769					
29448	Dealer	0	0	2	ВНК	1022.641509					
29449	Owner	0	0	2	ВНК	927.079009					
29450	Dealer	0	1	2	ВНК	896.774194					
29451 ו	29451 rows × 12 columns										

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In [3]:

dataset["POSTED_BY"].unique()

Out[3]:

array(['Owner', 'Dealer', 'Builder'], dtype=object)

```
In [4]:
```

```
ab=[]
for x in dataset["POSTED_BY"]:
    if x=='Owner':
        ab.append(0)
    elif x=='Dealer':
        ab.append(1)
    else:
        ab.append(2)
print(ab)
```

```
1, 0, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 0, 0, 1, 2,
1, 0, 1, 1, 0, 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0,
0, 1, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 0, 1,
0, 0, 1, 0, 0, 1, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 1,
1, 1, 0, 1, 0, 0, 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 0, 1, 0, 1, 1, 1, 1, 0,
1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 0, 1, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1,
1, 1, 1, 0, 1, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 0, 1, 1, 1, 0,
0, 1, 1, 0, 0, 1, 0, 0, 1, 1, 1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1,
1, 1, 0, 1, 1, 1, 2, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 0, 1, 2, 1, 1, 1,
1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 0, 0, 2, 1, 1, 1, 0, 1, 0, 1, 0, 1, 0, 1, 1,
0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 0, 1, 1, 2, 1, 1, 0, 0,
1, 0, 1, 1, 1, 0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 0, 1, 0, 1, 0,
1, 0, 1, 1, 0, 2, 1, 0, 1, 1, 0, 1, 1, 0, 0, 1, 2, 1, 0, 0, 0, 1, 1, 1, 1,
1, 0, 1, 0, 1, 1, 2, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0, 2, 0, 1, 1, 1, 0,
2, 1, 1, 0, 0, 0, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 0, 0, 1, 1,
1, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 1,
1, 1, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1,
1, 1, 1, 1, 1, 1, 0, 1, 0, 1, 0, 0, 0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 1, 1, 2,
```

In [5]:

dataset["Converted"]=ab

In [6]:

dataset

Out[6]:

Y_TO_MOVE	RESALE	City	LONGITUDE	LATITUDE	TARGET(PRICE_IN_LACS)	Converted
1	1	Bangalore	12.969910	77.597960	55.0	0
1	1	Mysore	12.274538	76.644605	51.0	1
1	1	Bangalore	12.778033	77.632191	43.0	0
1	1	Ghaziabad	28.642300	77.344500	62.5	0
0	1	Kolkata	22.592200	88.484911	60.5	1
1	1	Agra	27.140626	78.043277	45.0	0
1	1	Lake View Recidency	39.945409	-86.150721	16.0	0
1	1	Jaipur	26.928785	75.828002	27.1	1
1	1	Chennai	12.900150	80.227910	67.0	0
1	1	Jaipur	26.832353	75.841749	27.8	1

In [8]:

```
ab1=[]
for x in dataset["TARGET(PRICE_IN_LACS)"]:
    x1=x+10
    ab1.append(x1)
dataset["Updated_Price"]=ab1
```

In [9]:

dataset

Out[9]:

	POSTED_BY	UNDER_CONSTRUCTION	RERA	BHK_NO.	BHK_OR_RK	SQUARE_FT	RE
0	Owner	0	0	2	ВНК	1300.236407	
1	Dealer	0	0	2	ВНК	1275.000000	
2	Owner	0	0	2	ВНК	933.159722	
3	Owner	0	1	2	ВНК	929.921143	
4	Dealer	1	0	2	ВНК	999.009247	
29446	Owner	0	0	3	ВНК	2500.000000	
29447	Owner	0	0	2	внк	769.230769	
29448	Dealer	0	0	2	ВНК	1022.641509	
29449	Owner	0	0	2	ВНК	927.079009	
29450	Dealer	0	1	2	ВНК	896.774194	

29451 rows × 14 columns

In [10]:

del dataset['TARGET(PRICE_IN_LACS)']

In [11]:

dataset

Out[11]:

	POSTED_BY	UNDER_CONSTRUCTION	RERA	BHK_NO.	BHK_OR_RK	SQUARE_FT	RE
0	Owner	0	0	2	ВНК	1300.236407	
1	Dealer	0	0	2	ВНК	1275.000000	
2	Owner	0	0	2	ВНК	933.159722	
3	Owner	0	1	2	ВНК	929.921143	
4	Dealer	1	0	2	ВНК	999.009247	
29446	Owner	0	0	3	ВНК	2500.000000	
29447	Owner	0	0	2	ВНК	769.230769	
29448	Dealer	0	0	2	ВНК	1022.641509	
29449	Owner	0	0	2	ВНК	927.079009	
29450	Dealer	0	1	2	ВНК	896.774194	

29451 rows × 13 columns

In [13]:

dataset.insert(1,"New_Update",ab1)

In [14]:

dataset

Out[14]:

	POSTED_BY	New_Update	UNDER_CONSTRUCTION	RERA	BHK_NO.	BHK_OR_RK	SQ			
0	Owner	65.0	0	0	2	ВНК	13			
1	Dealer	61.0	0	0	2	BHK	12			
2	Owner	53.0	0	0	2	BHK	9			
3	Owner	72.5	0	1	2	BHK	9			
4	Dealer	70.5	1	0	2	ВНК	9			
29446	Owner	55.0	0	0	3	ВНК	25			
29447	Owner	26.0	0	0	2	внк	7			
29448	Dealer	37.1	0	0	2	ВНК	10			
29449	Owner	77.0	0	0	2	ВНК	9			
29450	Dealer	37.8	0	1	2	ВНК	8			
20451 r	29451 rows × 14 columns									
	OWS ~ 17 COIC									
1							•			

In [15]:

dataset.isnull().any()

Out[15]:

POSTED_BY	False
New_Update	False
UNDER_CONSTRUCTION	False
RERA	False
BHK_NO.	False
BHK_OR_RK	False
SQUARE_FT	False
READY_TO_MOVE	False
RESALE	False
City	True
LONGITUDE	False
LATITUDE	False
Converted	False
Updated_Price	False
dtype: bool	

In [16]:

dataset.isnull().sum()

Out[16]:

POSTED_BY 0 New_Update 0 UNDER_CONSTRUCTION 0 0 RERA BHK_NO. 0 BHK_OR_RK 0 SQUARE_FT 0 READY_TO_MOVE 0 RESALE 0 9 City LONGITUDE 0 LATITUDE 0 Converted 0 Updated_Price dtype: int64

In [17]:

data=pd.read_csv(r"D:\My Work\Top_Dataset\weather.csv")

In [18]:

data

Out[18]:

		MinTemp	MaxTemp	Rainfall	Evaporation	Sunshine	WindGustDir	WindGustSpeed	Windl
	0	8.0	24.3	0.0	3.4	6.3	NW	30.0	
	1	14.0	26.9	3.6	4.4	9.7	ENE	39.0	
	2	13.7	23.4	3.6	5.8	3.3	NW	85.0	
	3	13.3	15.5	39.8	7.2	9.1	NW	54.0	
	4	7.6	16.1	2.8	5.6	10.6	SSE	50.0	
36	31	9.0	30.7	0.0	7.6	12.1	NNW	76.0	
36	62	7.1	28.4	0.0	11.6	12.7	N	48.0	
36	3	12.5	19.9	0.0	8.4	5.3	ESE	43.0	
36	64	12.5	26.9	0.0	5.0	7.1	NW	46.0	
36	35	12.3	30.2	0.0	6.0	12.6	NW	78.0	

366 rows × 22 columns

4

In [20]:

```
data.isnull().sum()
```

Out[20]:

MinTemp 0 0 MaxTemp 0 Rainfall 0 Evaporation Sunshine 3 3 WindGustDir WindGustSpeed 2 31 WindDir9am WindDir3pm 1 WindSpeed9am 7 WindSpeed3pm 0 0 Humidity9am Humidity3pm 0 Pressure9am 0 Pressure3pm 0 Cloud9am 0 Cloud3pm 0 Temp9am 0 0 Temp3pm RainToday 0 RISK_MM 0 0 RainTomorrow dtype: int64

In [21]:

```
data['WindDir9am'].fillna(111,inplace=True)
```

In [22]:

data

Out[22]:

	MinTemp	MaxTemp	Rainfall	Evaporation	Sunshine	WindGustDir	WindGustSpeed	Windl
0	8.0	24.3	0.0	3.4	6.3	NW	30.0	
1	14.0	26.9	3.6	4.4	9.7	ENE	39.0	
2	13.7	23.4	3.6	5.8	3.3	NW	85.0	
3	13.3	15.5	39.8	7.2	9.1	NW	54.0	
4	7.6	16.1	2.8	5.6	10.6	SSE	50.0	
361	9.0	30.7	0.0	7.6	12.1	NNW	76.0	
362	7.1	28.4	0.0	11.6	12.7	N	48.0	
363	12.5	19.9	0.0	8.4	5.3	ESE	43.0	
364	12.5	26.9	0.0	5.0	7.1	NW	46.0	
365	12.3	30.2	0.0	6.0	12.6	NW	78.0	

366 rows × 22 columns

In [23]:

data.isnull().sum()

Out[23]:

0 MinTemp MaxTemp 0 Rainfall 0 0 Evaporation Sunshine 3 WindGustDir 3 2 WindGustSpeed WindDir9am 0 WindDir3pm 1 7 WindSpeed9am WindSpeed3pm 0 0 Humidity9am 0 Humidity3pm Pressure9am 0 0 Pressure3pm Cloud9am 0 0 Cloud3pm 0 Temp9am 0 Temp3pm 0 RainToday 0 RISK_MM RainTomorrow 0 dtype: int64