```
In [1]: import pandas as pd
        import seaborn as sns
        import numpy as np
```

```
In [2]: #Boxplot

        df = pd.read_csv('MagicBricks.csv')
```

```
In [3]: df
```

Out[3]:

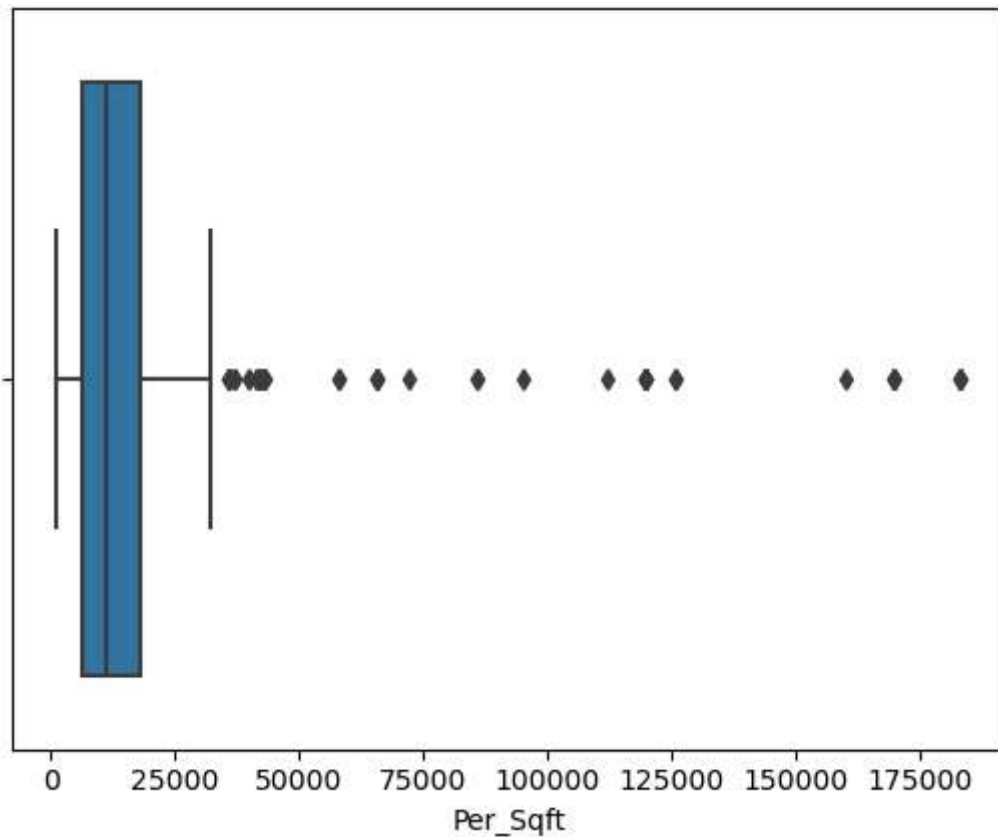|	Area	BHK	Bathroom	Furnishing	Locality	Parking	Price	Status	Transact
0	800.0	3	2.0	Semi-Furnished	Rohini Sector 25	1.0	6500000	Ready_to_move	New_Prop
1	750.0	2	2.0	Semi-Furnished	J R Designers Floors, Rohini Sector 24	1.0	5000000	Ready_to_move	New_Prop
2	950.0	2	2.0	Furnished	Citizen Apartment, Rohini Sector 13	1.0	15500000	Ready_to_move	Re
3	600.0	2	2.0	Semi-Furnished	Rohini Sector 24	1.0	4200000	Ready_to_move	Re
4	650.0	2	2.0	Semi-Furnished	Rohini Sector 24 carpet area 650 sqft status R...	1.0	6200000	Ready_to_move	New_Prop
...	...	...	...	...	...	...	...	...	
1254	4118.0	4	5.0	Unfurnished	Chittaranjan Park	3.0	55000000	Ready_to_move	New_Prop
1255	1050.0	3	2.0	Semi-Furnished	Chittaranjan Park	3.0	12500000	Ready_to_move	Re
1256	875.0	3	3.0	Semi-Furnished	Chittaranjan Park	3.0	17500000	Ready_to_move	New_Prop
1257	990.0	2	2.0	Unfurnished	Chittaranjan Park Block A	1.0	11500000	Ready_to_move	Re
1258	11050.0	3	3.0	Unfurnished	Chittaranjan Park	1.0	18500000	Ready_to_move	New_Prop

1259 rows × 11 columns

```
In [4]: sns.boxplot(df.Per_Sqft)
```

C:\Users\DELL\anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pas
s the following variable as a keyword arg: x. From version 0.12, the only valid positio
nal argument will be `data`, and passing other arguments without an explicit keyword wi
ll result in an error or misinterpretation.
  warnings.warn(

Out[4]:   `<AxesSubplot:xlabel='Per_Sqft'>`

In [5]:
```python
Q1,Q3 = df.Per_Sqft.quantile([0.25,0.75])
```

In [6]:
```python
Q1,Q3
```

Out[6]:   (6364.0, 18000.0)

In [7]:
```python
df.describe()
```

Out[7]:

	Area	BHK	Bathroom	Parking	Price	Per_Sqft
count	1259.000000	1259.000000	1257.000000	1226.000000	1.259000e+03	1018.000000
mean	1466.452724	2.796664	2.556086	1.935563	2.130670e+07	15690.136542
std	1568.055040	0.954425	1.042220	6.279212	2.560115e+07	21134.738568
min	28.000000	1.000000	1.000000	1.000000	1.000000e+06	1259.000000
25%	800.000000	2.000000	2.000000	1.000000	5.700000e+06	6364.000000
50%	1200.000000	3.000000	2.000000	1.000000	1.420000e+07	11291.500000
75%	1700.000000	3.000000	3.000000	2.000000	2.550000e+07	18000.000000
max	24300.000000	10.000000	7.000000	114.000000	2.400000e+08	183333.000000

In [8]:
```python
IQR = Q3-Q1
IQR
```

Out[8]:
```
11636.0
```

In [9]:
```python
# Upper Limit & Lower Limit

LL = Q1 - 1.5*(IQR)
UL = Q3 + 1.5*(IQR)
```

In [10]:
```python
LL,UL
```

Out[10]:
```
(-11090.0, 35454.0)
```

In [11]:
```python
df1 = df[df['Per_Sqft']>UL]
```

In [12]:
```python
df1
```

Out[12]:

	Area	BHK	Bathroom	Furnishing	Locality	Parking	Price	Status	Tra
104	2700.0000	4	4.0	Semi-Furnished	Lajpat Nagar 3	2.0	55000000	Ready_to_move	
105	1400.0000	3	3.0	Unfurnished	Lajpat Nagar 3	1.0	24500000	Ready_to_move	
106	1800.0000	3	3.0	Unfurnished	Lajpat Nagar 3	1.0	24500000	Ready_to_move	
107	1400.0000	3	3.0	Semi-Furnished	Lajpat Nagar 3	1.0	32500000	Ready_to_move	New_
152	450.0000	2	1.0	Unfurnished	Budh Vihar super area 50 sqyrd status Ready to...	1.0	3600000	Ready_to_move	New_
153	100.0000	3	2.0	Furnished	Budh Vihar Phase 1	1.0	4300000	Ready_to_move	New_
157	75.0000	2	2.0	Semi-Furnished	Budh Vihar	1.0	3000000	Ready_to_move	
240	4500.0000	4	4.0	Semi-Furnished	New Friends Colony	2.0	60000000	Ready_to_move	New_
241	1800.0000	4	4.0	Semi-Furnished	New Friends Colony	2.0	65000000	Ready_to_move	New_
242	6000.0000	5	5.0	Semi-Furnished	Maharani Bagh, New Friends Colony	9.0	220000000	Ready_to_move	New_
243	4300.0000	4	4.0	Unfurnished	New Friends Colony carpet area 4300 sqft statu...	2.0	60000000	Ready_to_move	
244	1700.0000	3	3.0	Semi-Furnished	Friends Colony East, New Friends Colony	2.0	38500000	Ready_to_move	New_
245	2500.0000	3	3.0	Semi-Furnished	Maharani Bagh, New Friends Colony	2.0	50000000	Ready_to_move	
246	4500.0000	4	4.0	Semi-Furnished	New Friends Colony	2.0	75000000	Ready_to_move	New_
247	2450.0000	4	4.0	Furnished	Friends Colony West, New Friends Colony	2.0	70000000	Ready_to_move	New_
281	4500.0000	4	4.0	Semi-Furnished	Kailash Colony, Greater Kailash	2.0	47500000	Ready_to_move	
327	495.1394	1	1.0	Furnished	Shahdara	1.0	1900000	Ready_to_move	

	Area	BHK	Bathroom	Furnishing	Locality	Parking	Price	Status	Tra
328	1053.0000	3	2.0	Furnished	Naveen Shahdara, Shahdara	4.0	7000000	Ready_to_move	
334	376.7365	1	1.0	Semi-Furnished	Yamuna Vihar, Shahdara	1.0	3000000	Ready_to_move	New_
351	630.0000	3	2.0	Furnished	Yamuna Vihar, Shahdara	1.0	22500000	Ready_to_move	
352	324.0000	6	3.0	Furnished	Yamuna Vihar, Shahdara	1.0	8700000	Ready_to_move	
353	720.0000	6	5.0	Furnished	Yamuna Vihar, Shahdara	1.0	22000000	Ready_to_move	
354	675.0000	4	2.0	Furnished	Yamuna Vihar, Shahdara	2.0	18500000	Ready_to_move	
384	312.0000	4	4.0	Furnished	Bank Enclave, Laxmi Nagar	1.0	35000000	Ready_to_move	
430	100.0000	3	2.0	Semi-Furnished	Patel Nagar East, Patel Nagar	2.0	16000000	Ready_to_move	
440	140.0000	3	2.0	Unfurnished	Punjabi Basti, Patel Nagar	1.0	12000000	Ready_to_move	New_
509	450.0000	2	2.0	NaN	Gandhi Nagar, Shahdara	NaN	2900000	Ready_to_move	
510	540.0000	5	2.0	NaN	Gandhi Nagar, Shahdara	NaN	17000000	Ready_to_move	
864	810.0000	3	2.0	Furnished	Mahavir Enclave	1.0	3800000	Ready_to_move	
865	720.0000	3	2.0	Semi-Furnished	Mahavir Enclave Part 1	1.0	4500000	Ready_to_move	
866	360.0000	2	1.0	Semi-Furnished	Vijay Enclave, Mahavir Enclave	1.0	2200000	Ready_to_move	New_
867	820.0000	3	2.0	Semi-Furnished	Mahavir Enclave	1.0	5200000	Ready_to_move	
868	459.0000	2	2.0	Semi-Furnished	Mahavir Enclave Part 3	1.0	2200000	Ready_to_move	
1037	1143.0000	2	2.0	Unfurnished	DDA MIG Flats Prasad Nagar Phase	1.0	16000000	Ready_to_move	

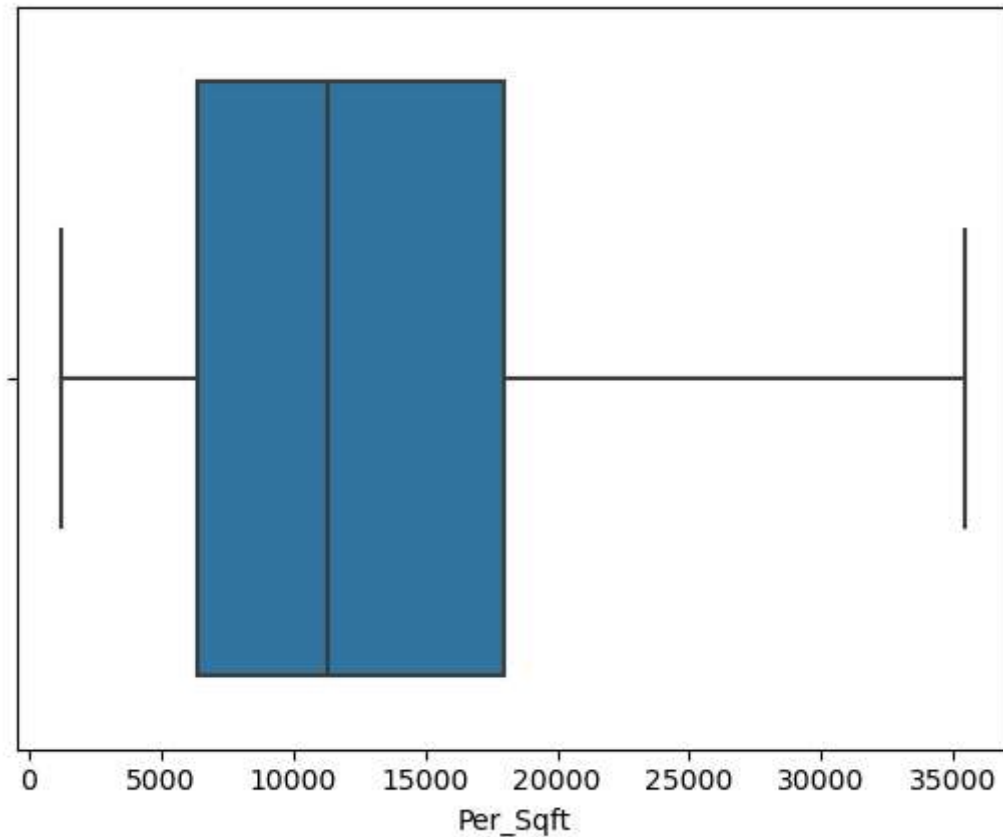|	Area	BHK	Bathroom	Furnishing	Locality	Parking	Price	Status	Trai
					2, Prasad Nag...				
1038	345.0000	1	1.0	Semi-Furnished	Karol Bagh	1.0	5500000	Ready_to_move	
1100	630.0000	2	2.0	Semi-Furnished	Apna Apartments, Savitri Nagar Village, Sheikh...	1.0	4600000	Ready_to_move	
1101	1250.0000	2	1.0	Semi-Furnished	Sheikh Sarai Phase 1	2.0	17500000	Ready_to_move	
1102	1800.0000	4	3.0	Furnished	Panchsheel Vihar, Sheikh Sarai	2.0	5500000	Ready_to_move	New_
1103	1500.0000	3	3.0	Semi-Furnished	Sheikh Sarai Phase 1	2.0	22500000	Ready_to_move	
1209	4500.0000	4	5.0	Semi-Furnished	Hauz Khas Enclave, Hauz Khas	2.0	85000000	Ready_to_move	New_
1210	6500.0000	4	5.0	Unfurnished	Mayfair garden, Hauz Khas	3.0	190000000	Ready_to_move	New_
1211	4350.0000	4	6.0	Semi-Furnished	Orchid Metropolis, Hauz Khas	2.0	135000000	Ready_to_move	New_
1212	1750.0000	3	3.0	Unfurnished	Hauz Khas	2.0	35000000	Ready_to_move	
1227	2700.0000	4	4.0	Semi-Furnished	Hauz Khas Enclave, Hauz Khas	2.0	100000000	Ready_to_move	New_
1228	1450.0000	3	3.0	Semi-Furnished	Safdarjung Development Area, Hauz Khas	1.0	45000000	Ready_to_move	New_

In [13]:
```python
df.Per_Sqft = np.where(df['Per_Sqft']>UL,UL,df['Per_Sqft'])
```

In [14]:
```python
sns.boxplot(df.Per_Sqft)
```

C:\Users\DELL\anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pas
s the following variable as a keyword arg: x. From version 0.12, the only valid positio
nal argument will be `data`, and passing other arguments without an explicit keyword wi
ll result in an error or misinterpretation.
  warnings.warn(

Out[14]:
<AxesSubplot:xlabel='Per_Sqft'>

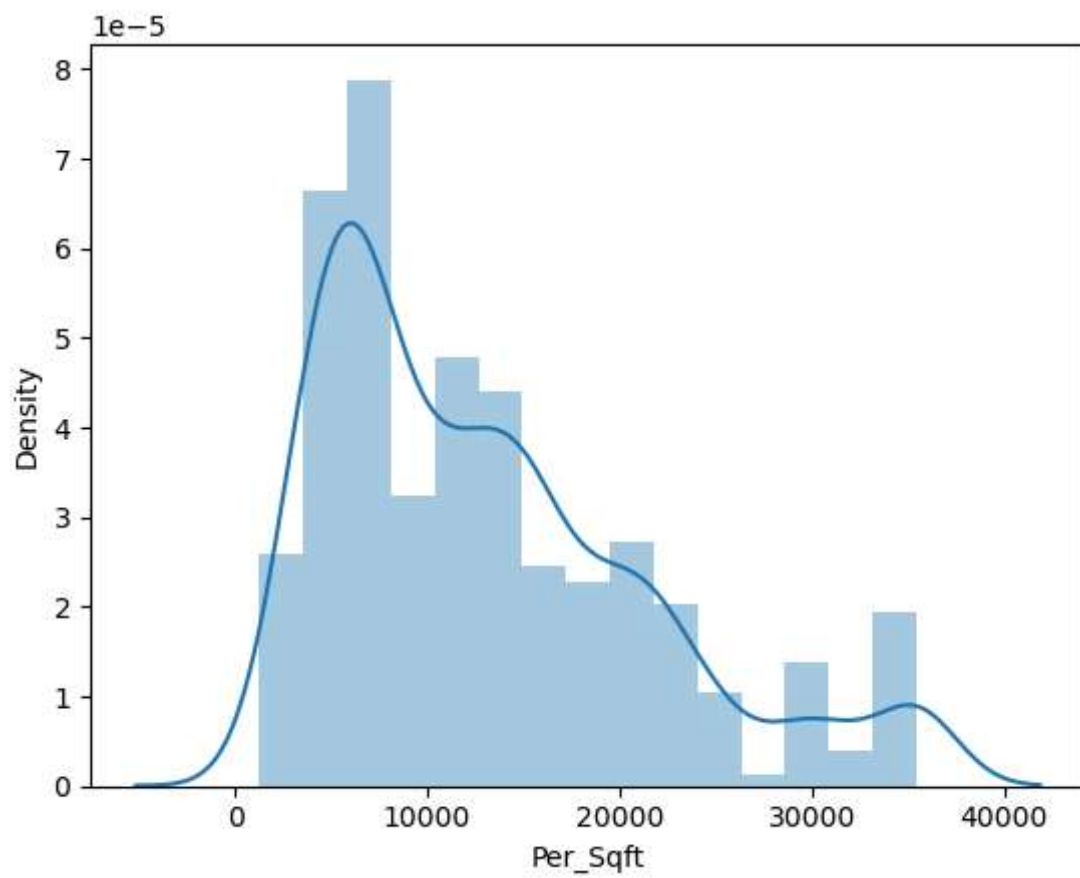In [16]:   `df.describe()`

Out[16]:

	Area	BHK	Bathroom	Parking	Price	Per_Sqft
count	1259.000000	1259.000000	1257.000000	1226.000000	1.259000e+03	1018.000000
mean	1466.452724	2.796664	2.556086	1.935563	2.130670e+07	13122.457760
std	1568.055040	0.954425	1.042220	6.279212	2.560115e+07	8551.645196
min	28.000000	1.000000	1.000000	1.000000	1.000000e+06	1259.000000
25%	800.000000	2.000000	2.000000	1.000000	5.700000e+06	6364.000000
50%	1200.000000	3.000000	2.000000	1.000000	1.420000e+07	11291.500000
75%	1700.000000	3.000000	3.000000	2.000000	2.550000e+07	18000.000000
max	24300.000000	10.000000	7.000000	114.000000	2.400000e+08	35454.000000

In [15]:   `sns.distplot(df.Per_Sqft)`

```
C:\Users\DELL\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning:
`distplot` is a deprecated function and will be removed in a future version. Please ada
pt your code to use either `displot` (a figure-level function with similar flexibility)
or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[15]:   `<AxesSubplot:xlabel='Per_Sqft', ylabel='Density'>`

In [ ]:

In [ ]: