```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
path="/content/House Price India.csv"
df=pd.read_csv(path)
```

## Loat the Dataset

df.info()
df.head()



<class 'pandas.core.frame.DataFrame'> RangeIndex: 14620 entries, 0 to 14619 Data columns (total 23 columns):

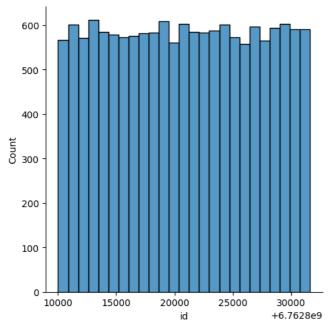
#	Column	Non-Null Count	Dtype					
		NOII-NUII COUIIC	туре					
0	id	14620 non-null	int64					
1	Date	14620 non-null	int64					
2	number of bedrooms	14620 non-null	int64					
3	number of bathrooms	14620 non-null	float64					
4	living area	14620 non-null	int64					
5	lot area	14620 non-null	int64					
6	number of floors	14620 non-null	float64					
7	waterfront present	14620 non-null	int64					
8	number of views	14620 non-null	int64					
9	condition of the house	14620 non-null	int64					
10	grade of the house	14620 non-null	int64					
11	Area of the house(excluding basement)	14620 non-null	int64					
12	Area of the basement	14620 non-null	int64					
13	Built Year	14620 non-null	int64					
14	Renovation Year	14620 non-null	int64					
15	Postal Code	14620 non-null	int64					
16	Lattitude	14620 non-null	float64					
17	Longitude	14620 non-null	float64					
18	living_area_renov	14620 non-null	int64					
19	lot_area_renov	14620 non-null	int64					
20	Number of schools nearby	14620 non-null						
21	Distance from the airport	14620 non-null	int64					
22	Price	14620 non-null	int64					
dtypes: float64(4), int64(19)								
memory usage: 2.6 MB								

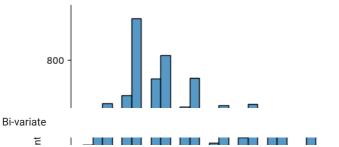
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0
5 rows × 23 columns									
4									<b>+</b>

## Univariate

sns.displot(df.id)
sns.displot(df.Date)

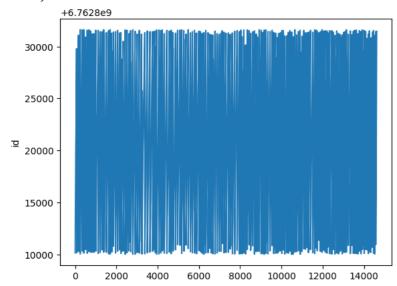
<seaborn.axisgrid.FacetGrid at 0x7f822cb18af0>





sns.lineplot(df.id)

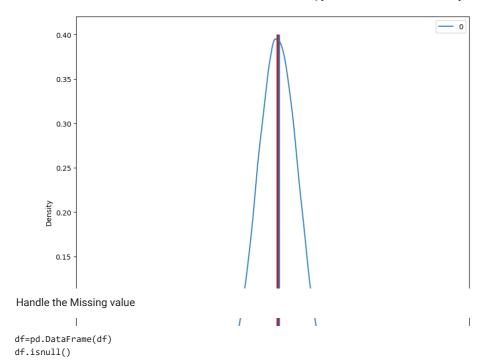
<Axes: ylabel='id'>



Multivariate

df.hist(figsize=(10,10))

```
array([[<Axes: title={'center': 'id'}>, <Axes: title={'center': 'Date'}>,
              <Axes: title={'center': 'number of bedrooms'}>,
             <Axes: title={'center': 'number of bathrooms'}>,
<Axes: title={'center': 'living area'}>],
[<Axes: title={'center': 'lot area'}>,
              <Axes: title={'center': 'number of floors'}>;
              <Axes: title={'center': 'waterfront present'}>,
              <Axes: title={'center': 'number of views'}>,
              <Axes: title={'center': 'condition of the house'}>],
             [<Axes: title={'center': 'grade of the house'}>,
              <Axes: title={'center': 'Area of the house(excluding basement)'}>,
              <Axes: title={'center': 'Area of the basement'}>,
              <Axes: title={'center': 'Built Year'}>,
              <Axes: title={'center': 'Renovation Year'}>],
             <Axes: title={'center': 'Longitude'}>,
<Axes: title={'center': 'living_area_renov'}>,
              <Axes: title={'center': 'lot_area_renov'}>],
             <Axes: title={'center': 'Price'}>, <Axes: >, <Axes: >]],
            dtype=object)
                 id
                                           number of bedroomsumber of bathrooms
                                 Date
                                                                                 living area
       1500
                                                          6000
       1000
                                                          4000
                                                                            000
        500
                                                          2000
                         500
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                                                            0
          10000 | 20000 | 30000
+6.7628e9
                            475Mber of 4738Ps waterfront present number of views condition of the house
      15000
                                         15000
                        6000
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      10000
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       5000
                                         5000
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                                                              Ó
                                                                Built<sup>2</sup>Year
          grade of three to possible house (excluding Apasa of this base of the
                                                                               Renovation4Year
       6000
                        6000
                                        10000
       4000
                                         5000
                                                           000
                                             0 Longitude00
             Postal dede
                               Lattitude
                                                             living larea renov
                                                                               lot area renov
Perform Descriptive Statistics on the Dataset
                   df.mean()
df.median()
norm_df=pd.DataFrame(np.random.normal
                      (size=100000))
norm_df.plot(kind="density",
              figsize=(10,10));
plt.vlines(norm_df.mean(),
           vmin=0.
           ymax=0.4,
           linewidth=5.0);
plt.vlines(norm_df.median(),
           ymin=0,
           ymax=0.4,
           linewidth =2.0,
           color="red");
```



	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	со
0	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	
14615	False	False	False	False	False	False	False	False	False	
14616	False	False	False	False	False	False	False	False	False	
14617	False	False	False	False	False	False	False	False	False	
14618	False	False	False	False	False	False	False	False	False	
14619	False	False	False	False	False	False	False	False	False	
14620 rows × 23 columns										