```
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):

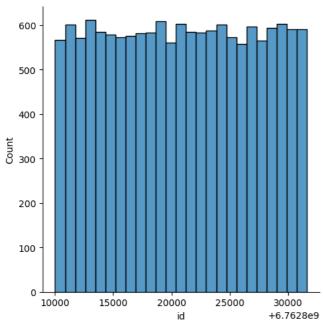
νατα	columns (total 23 columns):						
#	Column	Non-Null Count	-71				
0	 id	14620 non-null	int64				
1	Date	14620 non-null					
2	number of bedrooms	14620 non-null	int64				
3	number of bathrooms	14620 non-null	float64				
4	living area	14620 non-null					
5	lot area	14620 non-null	int64				
6	number 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	int64				
21	Distance from the airport	14620 non-null	int64				
22	Price	14620 non-null	int64				
dtyp	es: float64(4), int64(19)						
memory usage: 2.6 MB							

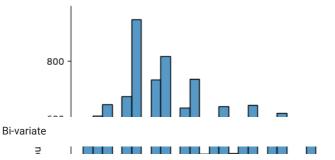
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	numbe (view
0	6762810145	42491	5	2.50	3650	9050	2.0	0	
1	6762810635	42491	4	2.50	2920	4000	1.5	0	
2	6762810998	42491	5	2.75	2910	9480	1.5	0	
3	6762812605	42491	4	2.50	3310	42998	2.0	0	
4	6762812919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

Univariate

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

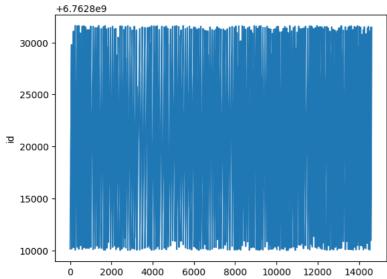
<seaborn.axisgrid.FacetGrid at 0x7fee50f429a0>





sns.lineplot(df.id)

<Axes: ylabel='id'>

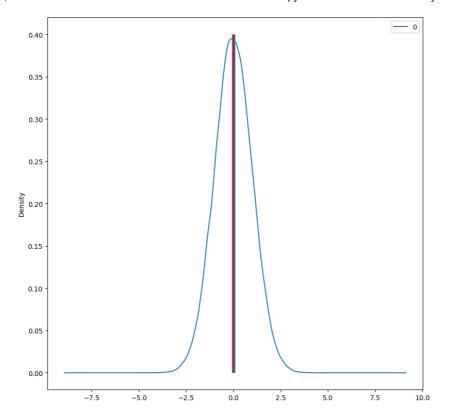


Multivariate

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
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                      475Mber of 4738Ps waterfront present number of views condition of the house
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                                                           Built<sup>2</sup>Year
     grade of three to possible house (excluding Apasa of this base of the
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                                        O Longitudeoo
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                                                        living_area_renov
        Postal dede
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                                                            2500 5000
                                                                            250000500000
  4000
  2000
                    500
                                      0
                                   80
```

Perform Descriptive Statistics on the Dataset



Handle the Missing value

df=pd.DataFrame(df)
df.isnull()

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views
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									
4									+

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