ASSIGNMENT 2

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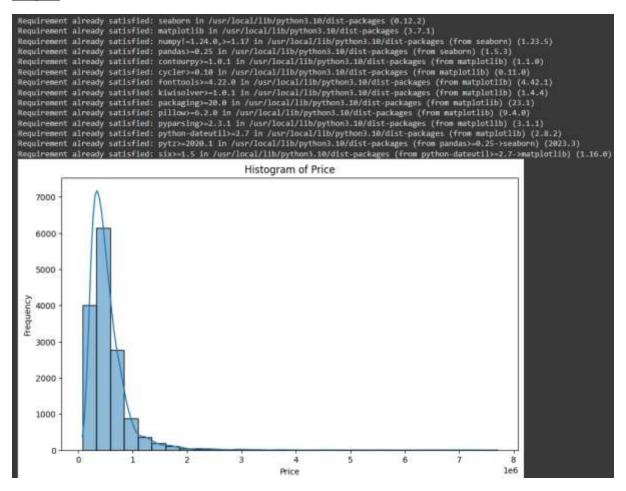
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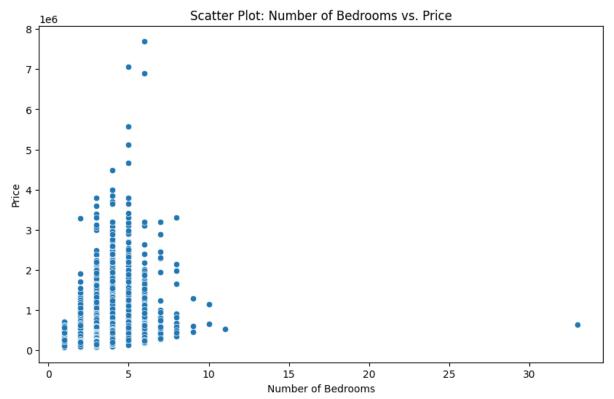
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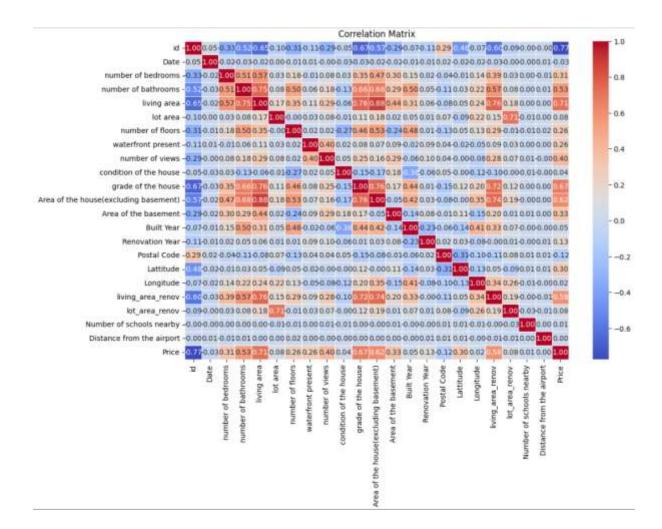
Code:

```
import pandas as pd
csv load = 'House Price India.csv'
df = pd.read csv(csv load)
df.head()
!pip install seaborn matplotlib
import seaborn as sns
import matplotlib.pyplot as plt
# Histogram of Price
plt.figure(figsize=(10, 6))
sns.histplot(df['Price'], bins=30, kde=True)
plt.xlabel('Price')
plt.ylabel('Frequency')
plt.title('Histogram of Price')
plt.show()
# Scatter Plot between Number of Bedrooms and Price
plt.figure(figsize=(10, 6))
sns.scatterplot(data=df, x='number of bedrooms', y='Price')
plt.xlabel('Number of Bedrooms')
plt.ylabel('Price')
plt.title('Scatter Plot: Number of Bedrooms vs. Price')
plt.show()
correlation matrix = df.corr()
plt.figure(figsize=(12, 8))
sns.heatmap(correlation matrix, annot=True, cmap='coolwarm', fmt='.2f',
linewidths=.5)
plt.title('Correlation Matrix')
plt.show()
descriptive stats = df.describe()
descriptive stats
missing values = df.isnull().sum()
df['Price'].interpolate(method='linear', inplace=True)
missing values after handling = df.isnull().sum()
print(df.head())
```

Output:







```
id Date number of bedrooms number of bathrooms living area \
0 6762810145 42491
                                                        2.50 3650
1 6762810635 42491
                                                          2.50
                                                                        2920
2 6762810998 42491
3 6762812605 42491
                                                         2.75
2.50
                                                                       3310
4 6762812919 42491
                                                         2.00
                                                                       2710
   lot area number of floors waterfront present number of views \
     9050
0
      4000
                          1.5
                         1.5
2.0
                                                 0
     42998
     4500
                                                 a
                                                                  ø
   condition of the house ... Built Year Renovation Year Postal Code \
5 ... 1921 0 122003
                                 1921
                                       1909
                                                                   122004
                                1939
2001
1929
                                                                  122004
122005
122006
  Lattitude Longitude living_area_renov lot_area_renov \
              -114.557
-114.470
                                              5400
   52.8645
    52.8878
                                                       4000
  52.8852 -114.468
52.9532 -114.321
52.9047 -114.485
                                     2940
                                                       6600
                                     3350
                                                      42847
                                       2060
                                                      4500
   Number of schools nearby Distance from the airport Price
                                                     58 2380000
51 1400000
                                                     53 1200000
                                                     76 838000
51 805000
[5 rows x 23 columns]
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```