

▶ ▾ #Enter Your Code, Execute and take the Screenshot

df.dtypes

[8]



0.0s

Python

```
... Unnamed: 0      int64
id              int64
date            object
price           float64
bedrooms        float64
bathrooms       float64
sqft_living      int64
sqft_lot         int64
floors          float64
waterfront      int64
view            int64
condition        int64
grade           int64
sqft_above      int64
sqft_basement   int64
yr_built        int64
yr_renovated    int64
zipcode         int64
lat             float64
long            float64
sqft_living15   int64
sqft_lot15      int64
dtype: object
```

```
#Enter Your Code, Execute and take the Screenshot
df.drop(['id'], axis=1, inplace=True)
df.drop(['Unnamed: 0'], axis=1, inplace=True)
df.describe()
```

✓ 0.1s

Python

| | price | bedrooms | bathrooms | sqft_living | sqft_lot | floors | waterfront | view | condition | grade | sqft_al |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|
| count | 2.161300e+04 | 21600.000000 | 21603.000000 | 21613.000000 | 2.161300e+04 | 21613.000000 | 21613.000000 | 21613.000000 | 21613.000000 | 21613.000000 | 21613.00 |
| mean | 5.400881e+05 | 3.372870 | 2.115736 | 2079.899736 | 1.510697e+04 | 1.494309 | 0.007542 | 0.234303 | 3.409430 | 7.656873 | 1788.39 |
| std | 3.671272e+05 | 0.926657 | 0.768996 | 918.440897 | 4.142051e+04 | 0.539989 | 0.086517 | 0.766318 | 0.650743 | 1.175459 | 828.09 |
| min | 7.500000e+04 | 1.000000 | 0.500000 | 290.000000 | 5.200000e+02 | 1.000000 | 0.000000 | 0.000000 | 1.000000 | 1.000000 | 290.00 |
| 25% | 3.219500e+05 | 3.000000 | 1.750000 | 1427.000000 | 5.040000e+03 | 1.000000 | 0.000000 | 0.000000 | 3.000000 | 7.000000 | 1190.00 |
| 50% | 4.500000e+05 | 3.000000 | 2.250000 | 1910.000000 | 7.618000e+03 | 1.500000 | 0.000000 | 0.000000 | 3.000000 | 7.000000 | 1560.00 |
| 75% | 6.450000e+05 | 4.000000 | 2.500000 | 2550.000000 | 1.068800e+04 | 2.000000 | 0.000000 | 0.000000 | 4.000000 | 8.000000 | 2210.00 |
| max | 7.700000e+06 | 33.000000 | 8.000000 | 13540.000000 | 1.651359e+06 | 3.500000 | 1.000000 | 4.000000 | 5.000000 | 13.000000 | 9410.00 |



```
#Enter Your Code, Execute and take the Screenshot  
df['floors'].value_counts().to_frame()
```

[15]

✓ 0.0s

Python

...

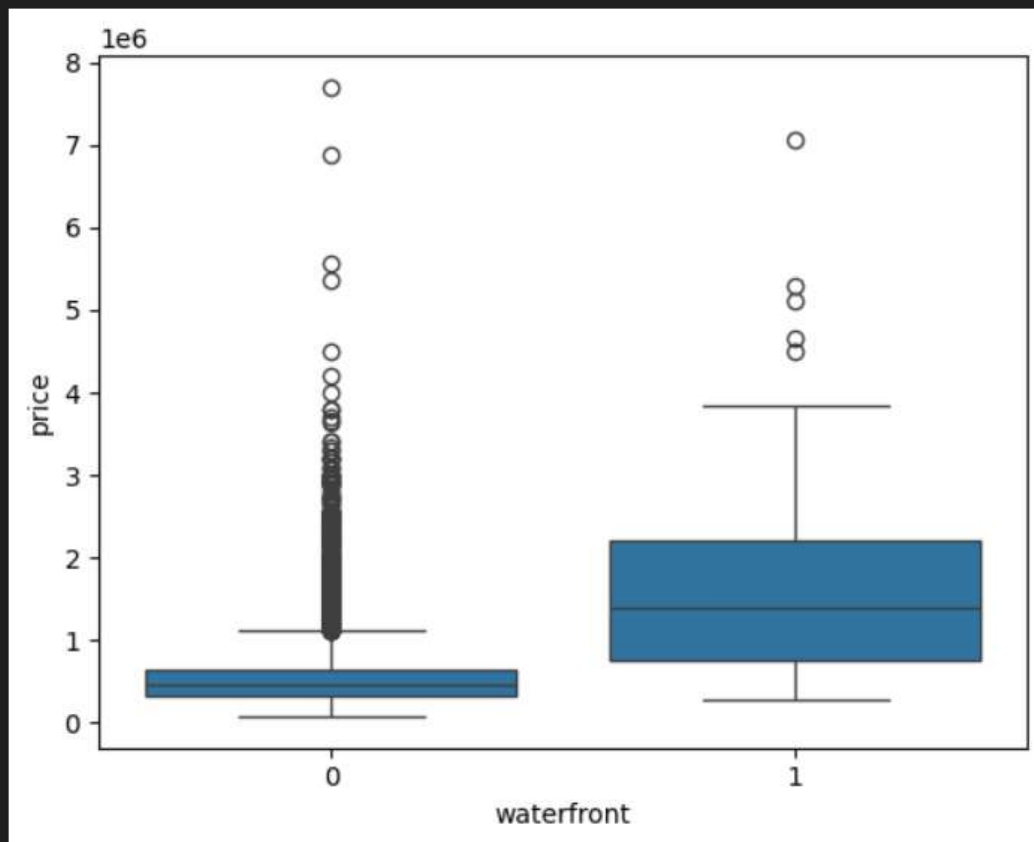
| count | |
|--------|-------|
| floors | |
| 1.0 | 10680 |
| 2.0 | 8241 |
| 1.5 | 1910 |
| 3.0 | 613 |
| 2.5 | 161 |
| 3.5 | 8 |

```
sns.boxplot(x='waterfront', y='price', data=df)
```

[16] ✓ 2.1s

Python

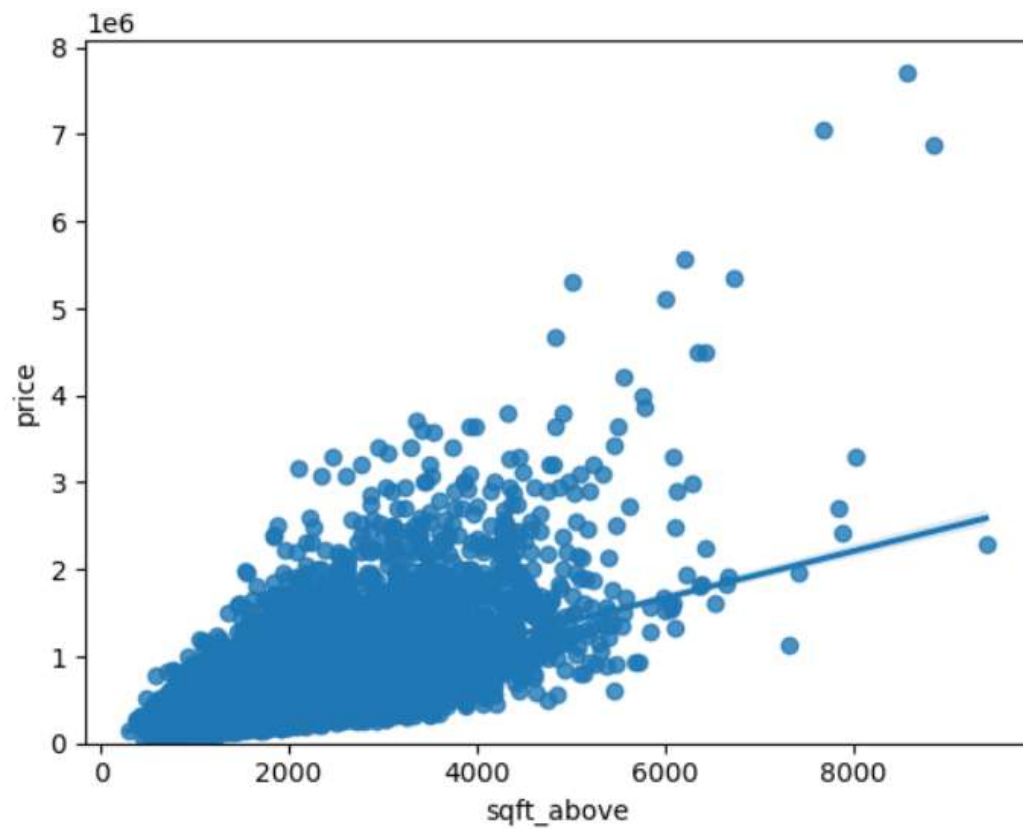
<Axes: xlabel='waterfront', ylabel='price'>



```
#Enter Your Code, Execute and take the Screenshot  
sns.regplot(x='sqft_above', y='price', data=df)  
plt.ylim(0,)
```

✓ 2.4s

... (0.0, 8081250.0)





#Enter Your Code, Execute and take the Screenshot

```
Lre = LinearRegression()
```

```
X = df[['sqft_living']]
```

```
Y = df['price']
```

```
Lre.fit(X,Y)
```

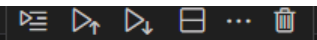
```
Lre.score(X,Y)
```

[38]

✓ 0.0s

Python

... 0.4928532179037931



#Enter Your Code, Execute and take the Screenshot

```
X = df[features]
```

```
Y = df['price']
```

```
Lre.fit(X,Y)
```

```
Lre.score(X,Y)
```

[30]

✓ 2.0s

Python

...

0.657549290662202

▷ ▾
#Enter Your Code, Execute and take the Screenshot

```
pipe = Pipeline(Input)  
pipe.fit(X,Y)  
pipe.score(X,Y)
```

[32]

✓ 0.6s

Python

...

0.7508105841089538



#Enter Your Code, Execute and take the Screenshot

```
RidgeModel = Ridge(alpha = 0.1)
RidgeModel.fit(x_train, y_train)
RidgeModel.score(x_test, y_test)
```

[36]

✓ 0.2s

Python

...

0.6478759163939115

▶ ▾ #Enter Your Code, Execute and take the Screenshot

```
pr = PolynomialFeatures(degree=2)
x_train_pr = pr.fit_transform(x_train)
x_test_pr = pr.fit_transform(x_test)
RidgeModel = Ridge(alpha = 0.1)
RidgeModel.fit(x_train_pr, y_train)
RidgeModel.score(x_test_pr, y_test)
```

[37] ✓ 0.3s

Python

... 0.7002744283021596