

KC_HOUSE PREDICTION

Making predictions





Objectives

Help home owners to:

- Estimate the price of houses depending on if they were renovated or not.
- Estimate by how much the price has changed.
- Interpret the correlation between price and other factors.



Tools used

pandas

numpy

matplotlib

scipy

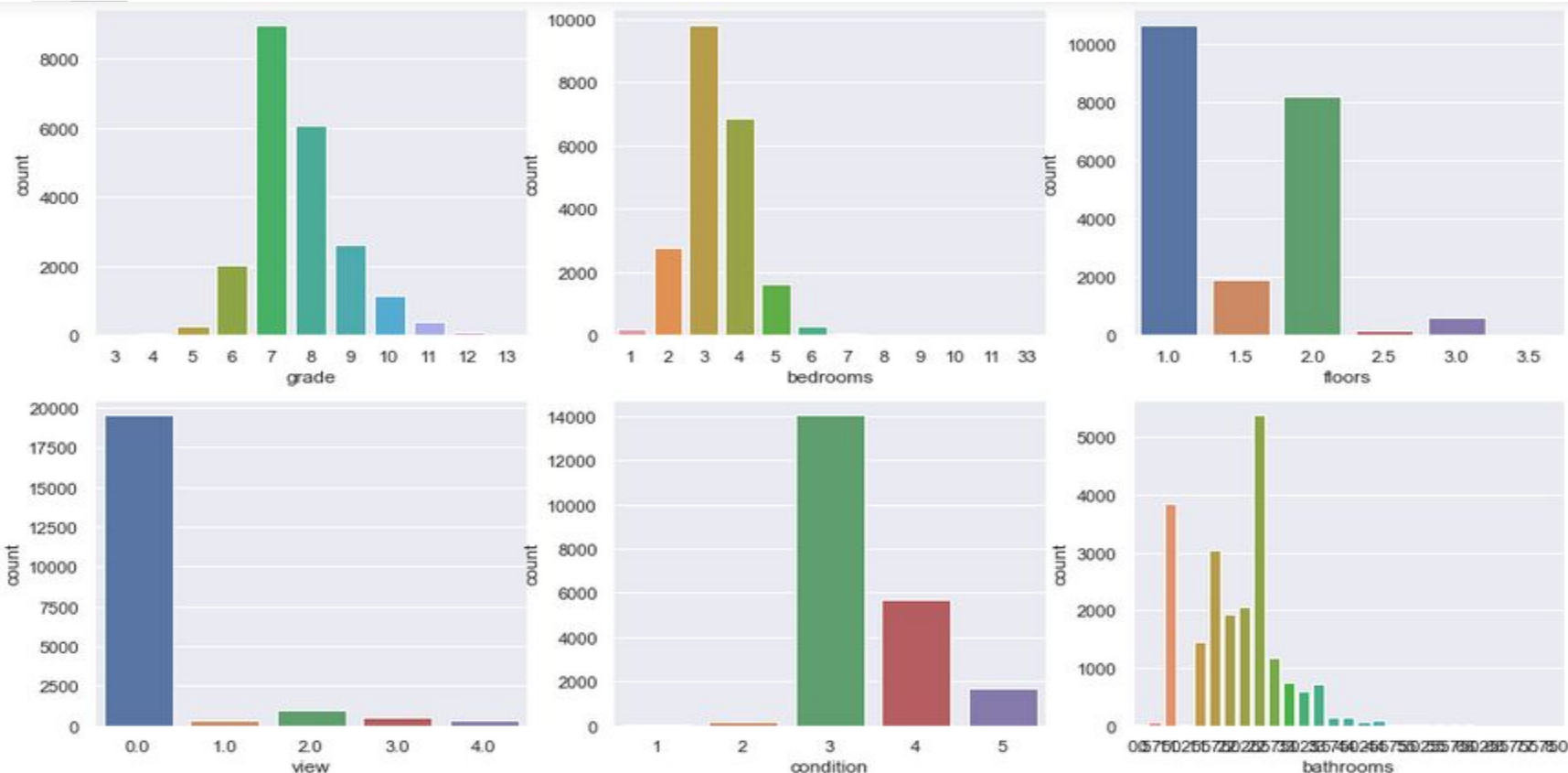
seaborn



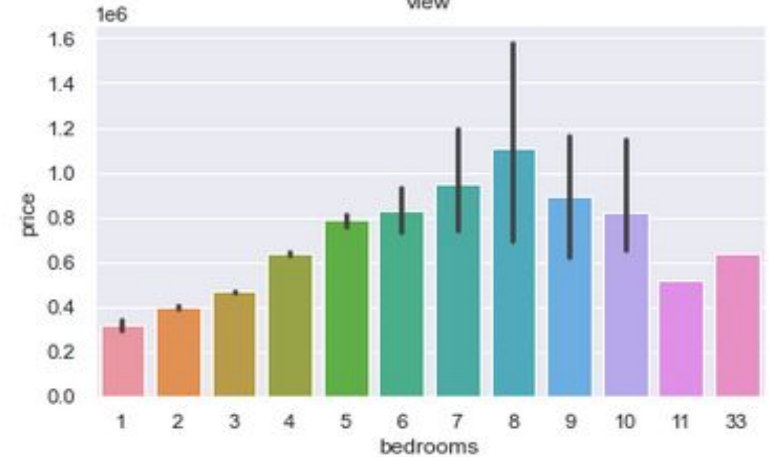
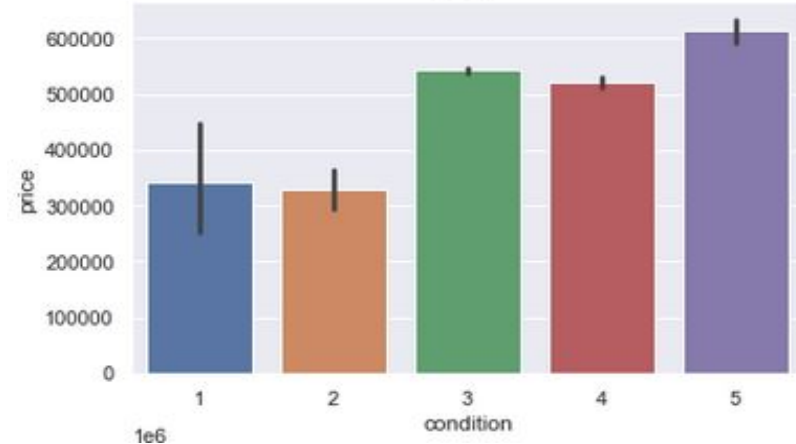
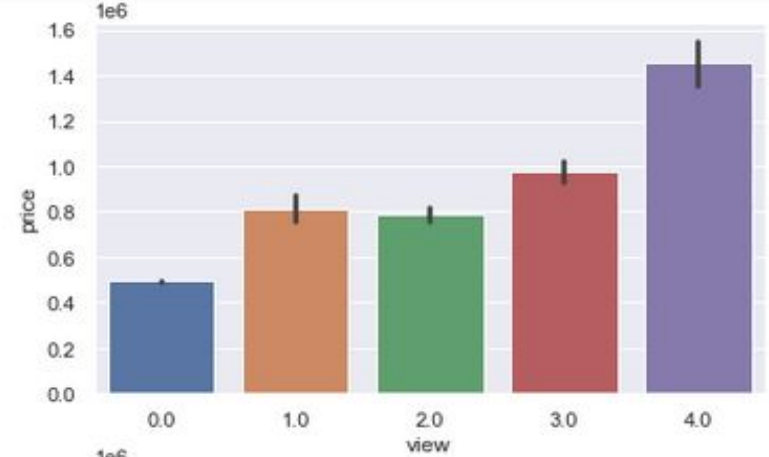
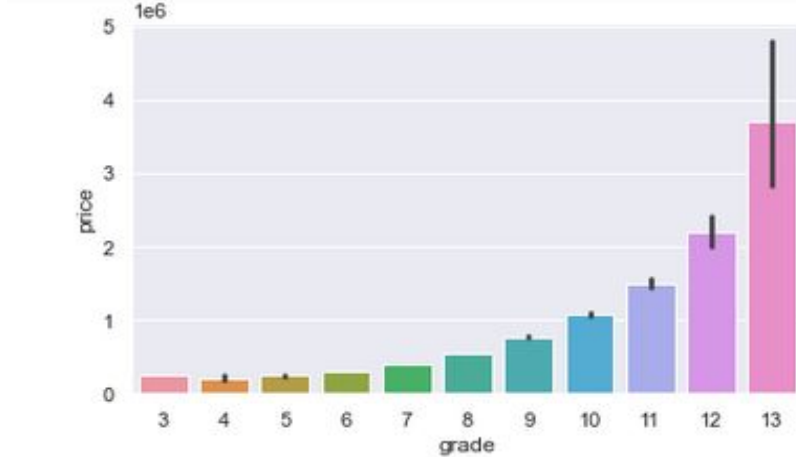
Business problem

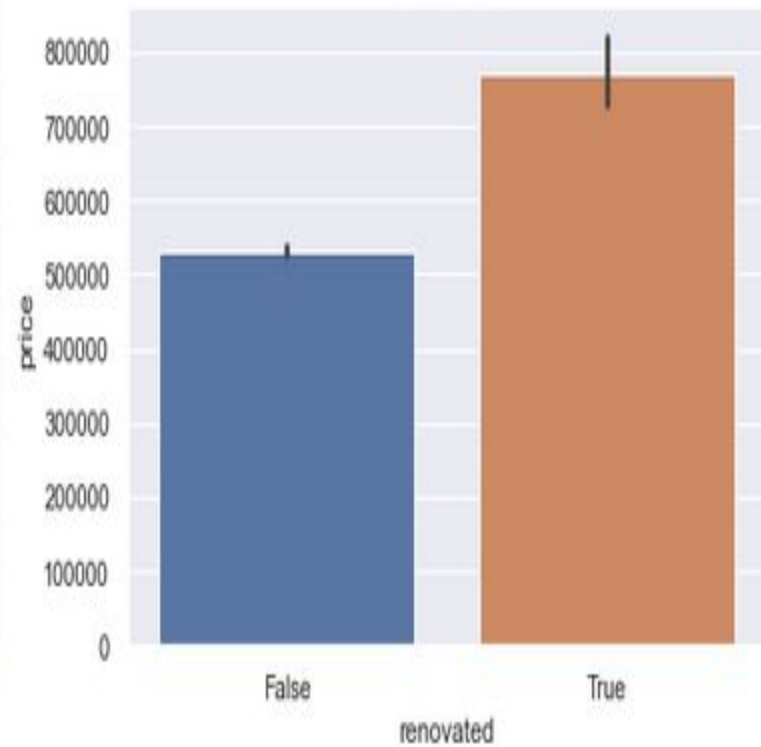
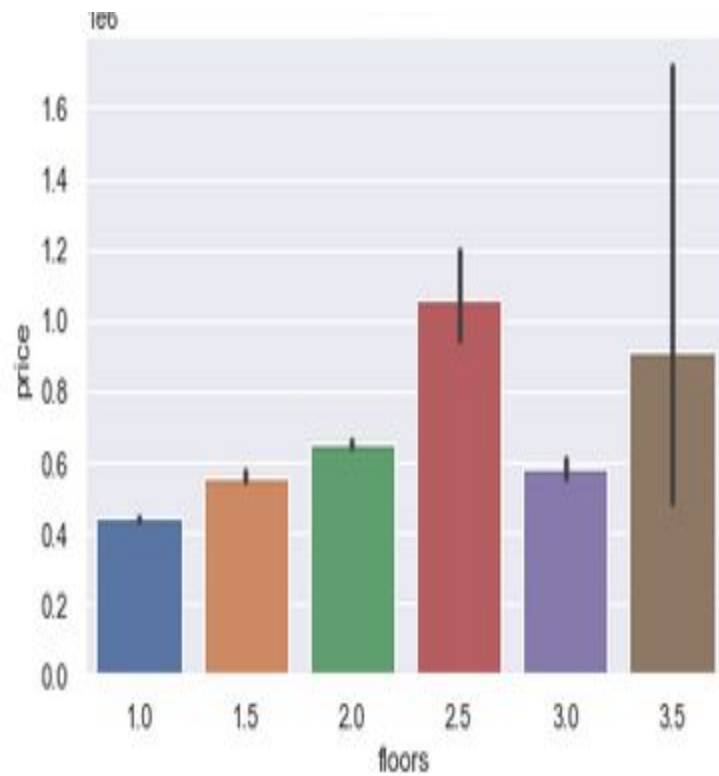
This is a project for a real estate agency that helps homeowners buy and/or sell homes. The business problem is focusing on how this stakeholder is to provide advice to homeowners about how home renovations they can increase house value.

Univariate analysis

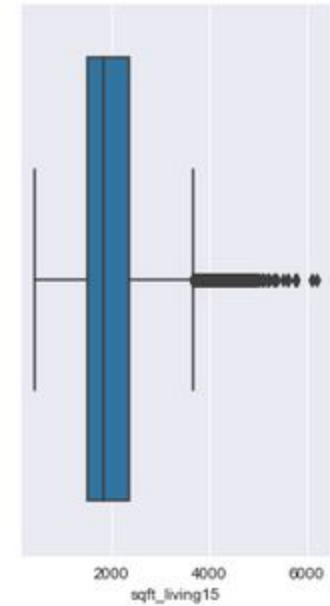
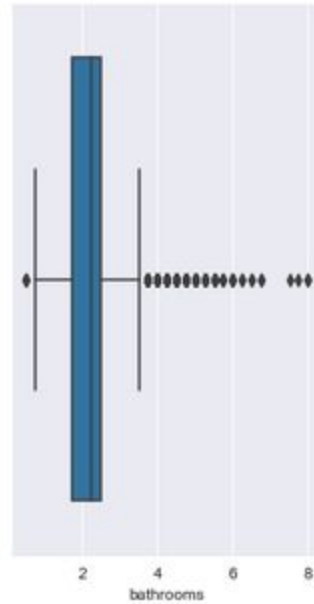
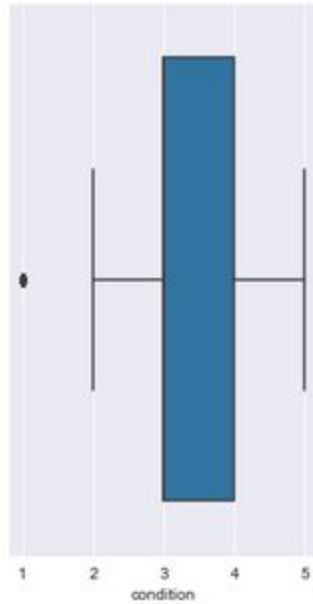


How different aspects affect price

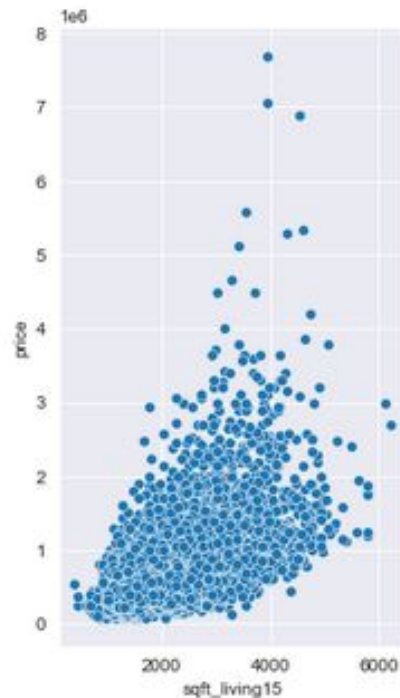
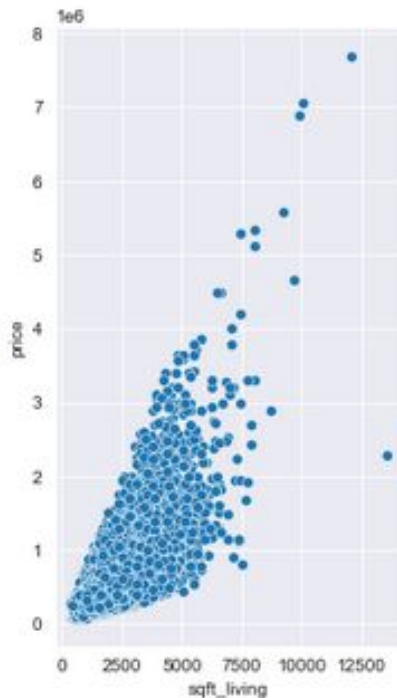
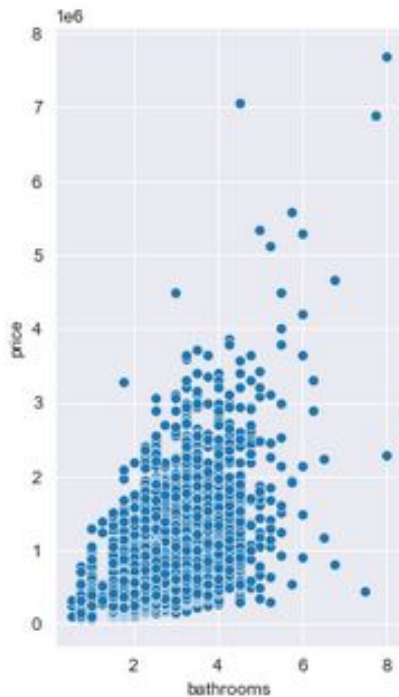




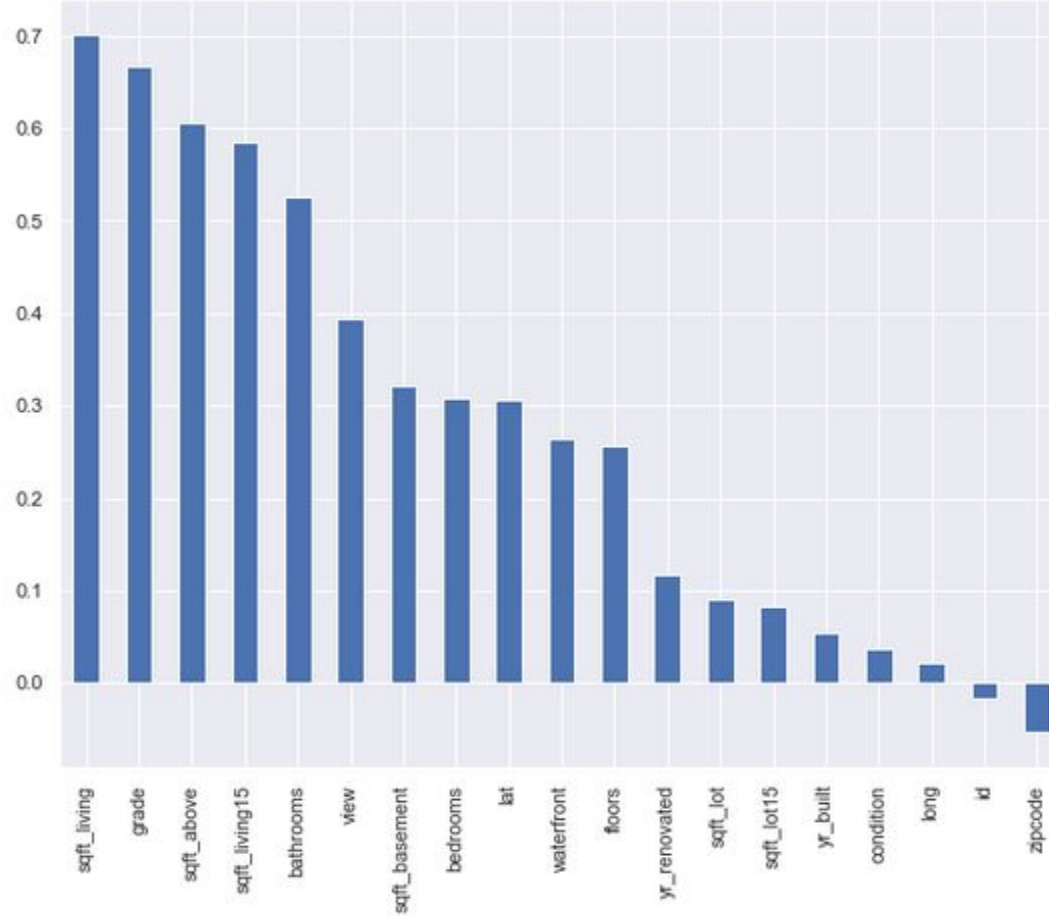
Outliers



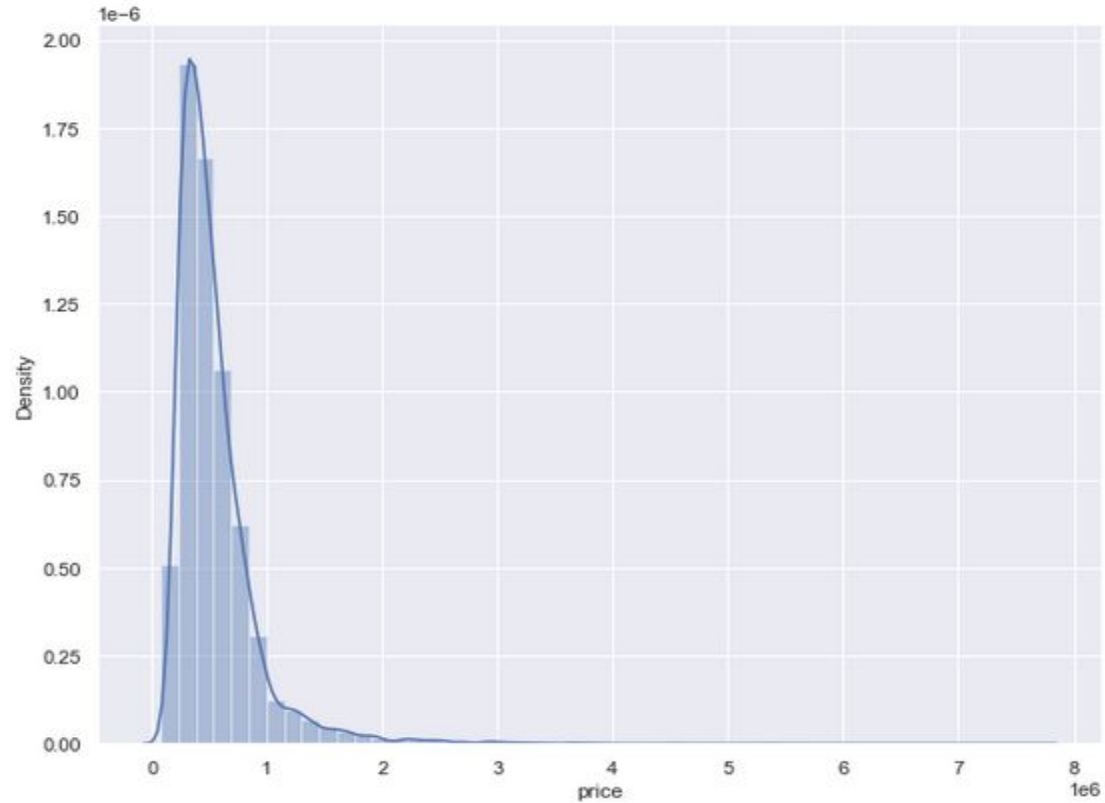
SCatter plot for continuous variables



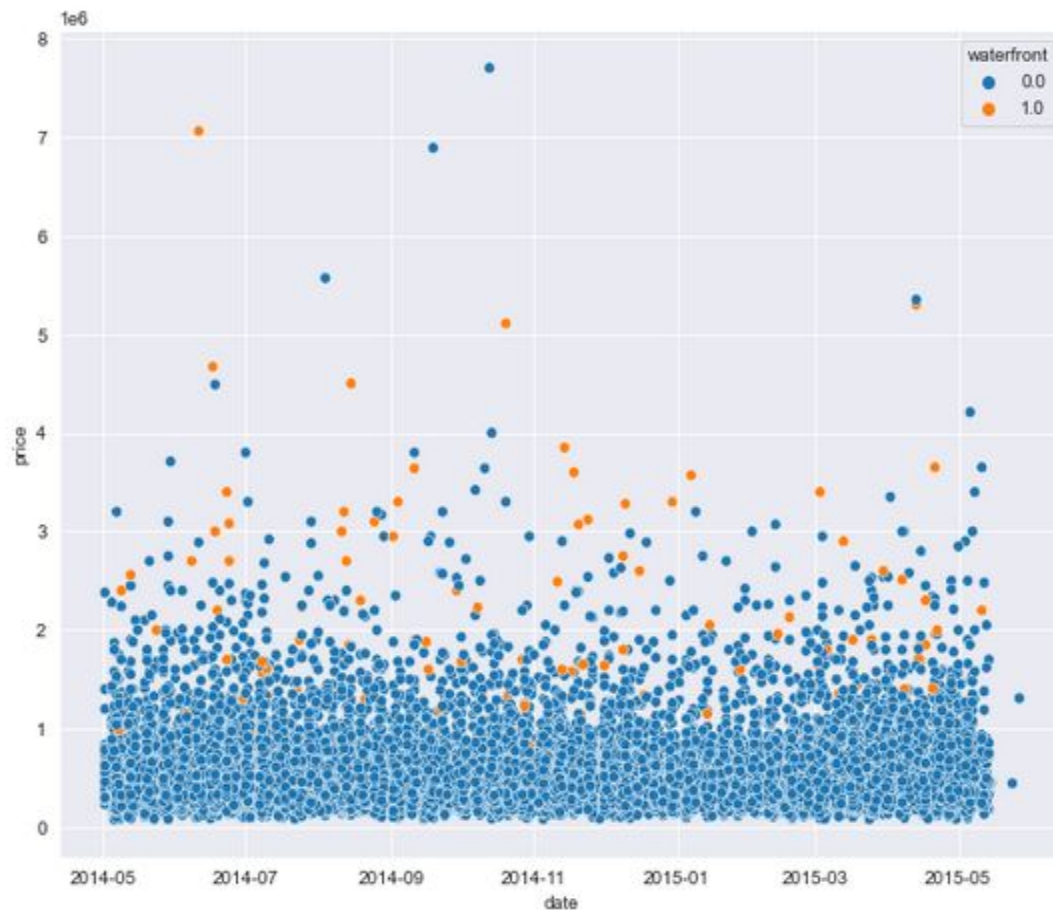
Correlation with Price

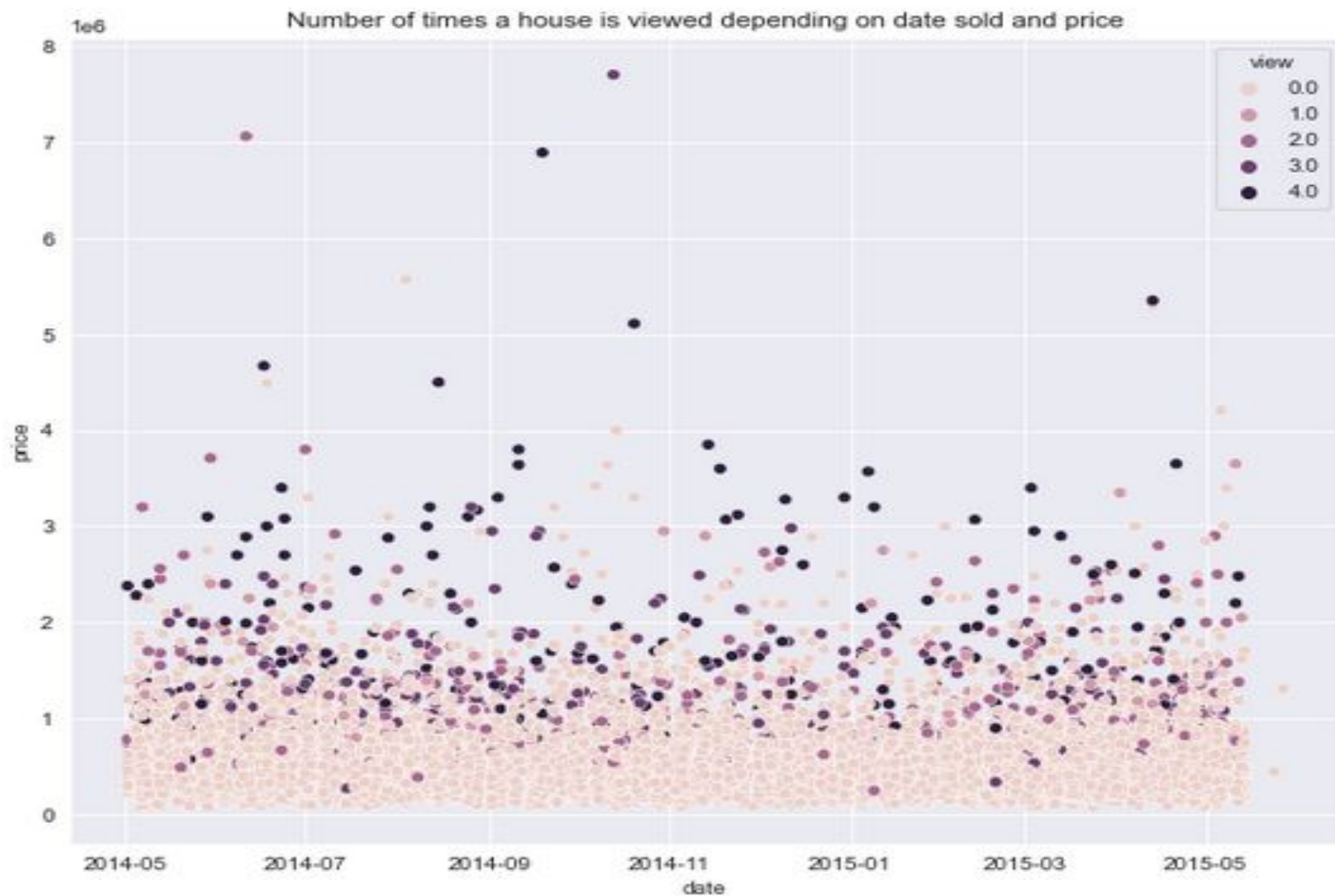


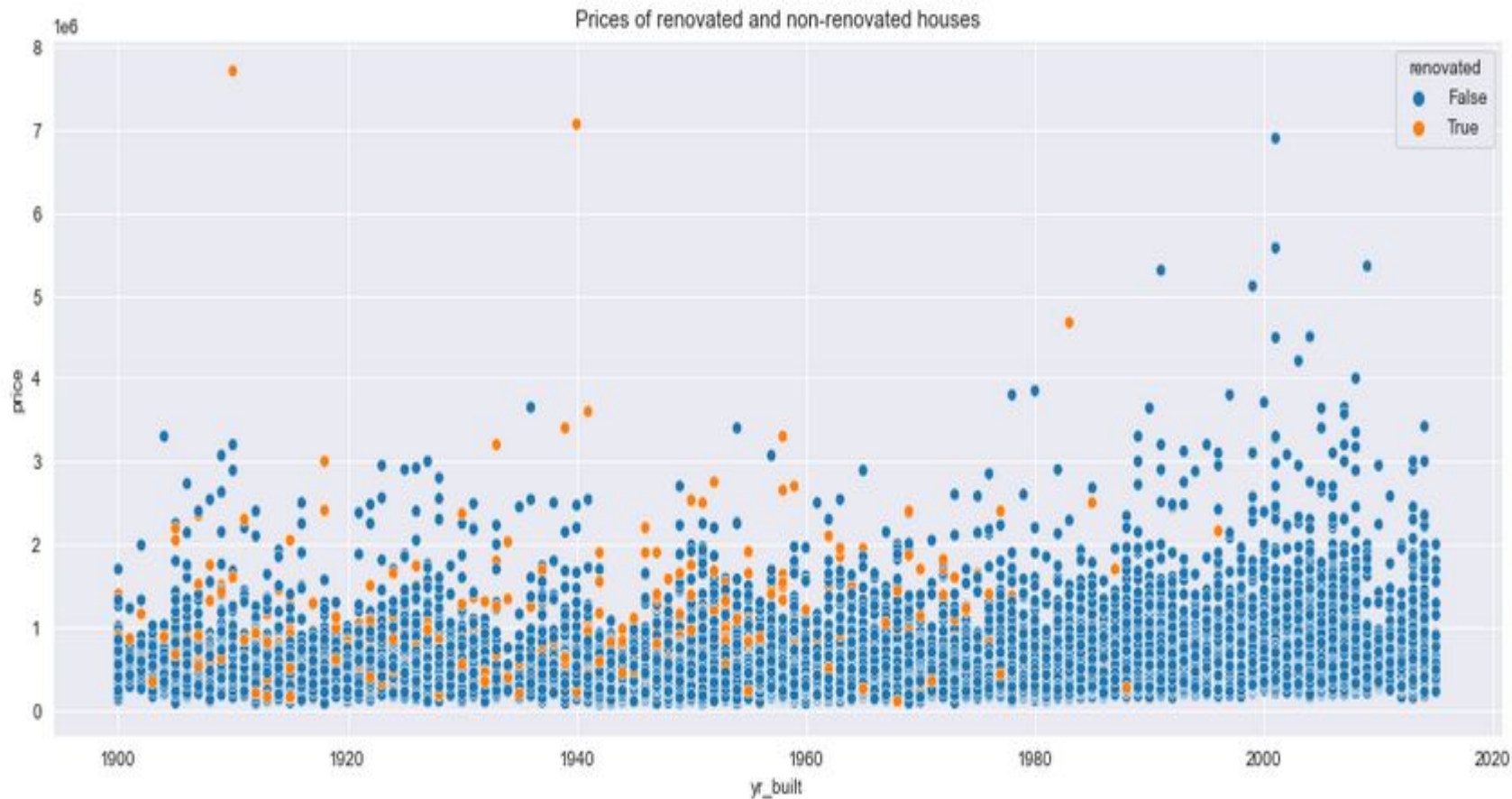
Price Distribution



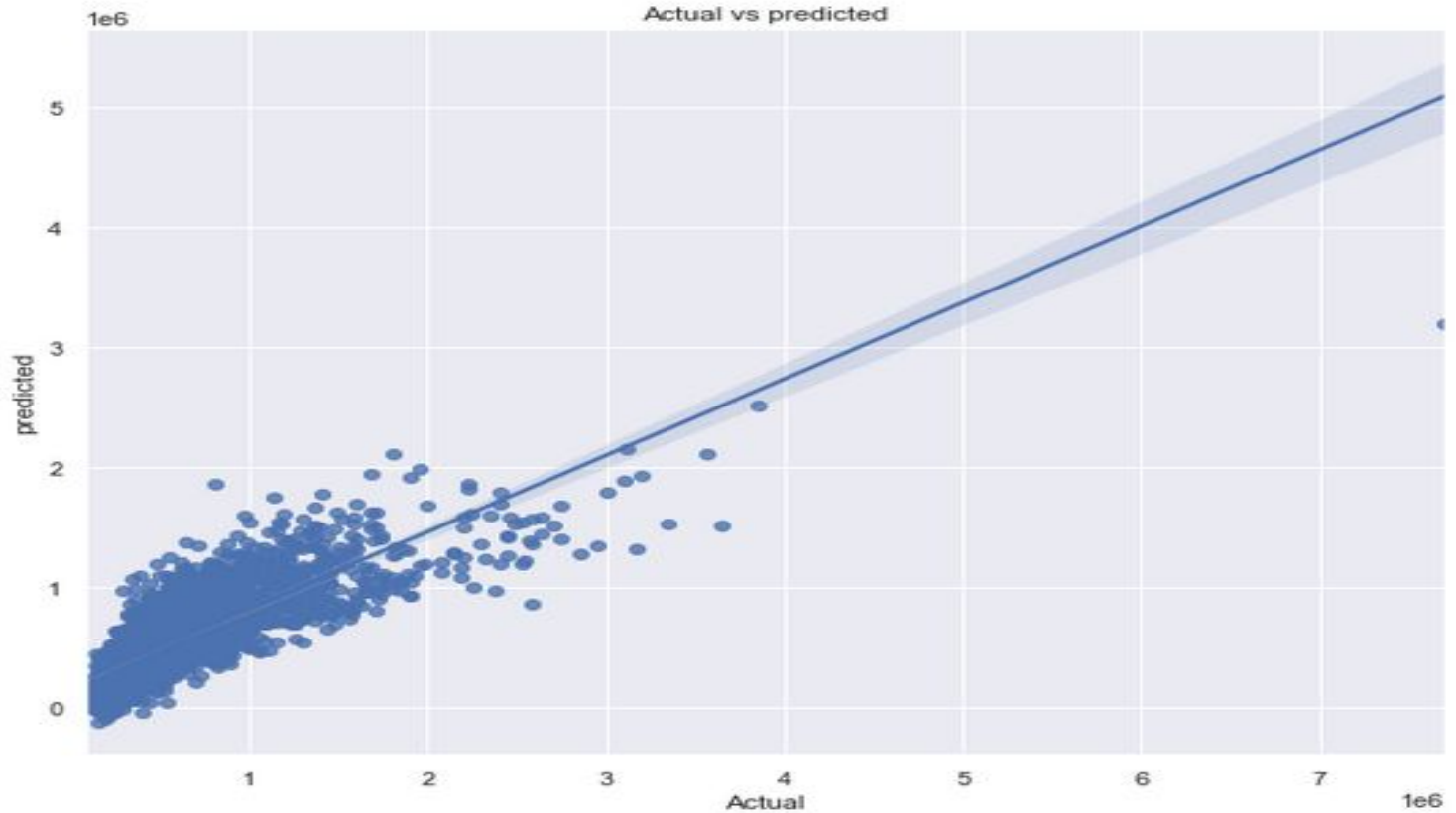
How waterfront affects price







Model





Question 1: Does a house with waterfront cost more?

According to the graph above we can see that houses with waterfront are much more expensive compared to those without.



Which house to customers like to view?

Most viewed houses are expensive probably because they are of much higher quality.



How to make the house more valuable?

The better the bathroom the better the house according to our graphs.

5 -10 bedrooms have higher value compared to the those less than 5 and more than 10

The higher the grade the valuable the house

Condition 3 to 5 have higher value compared to the those less than 3



By how much home renovations increase value?

By an average of 200000 ,house renovation increases price