

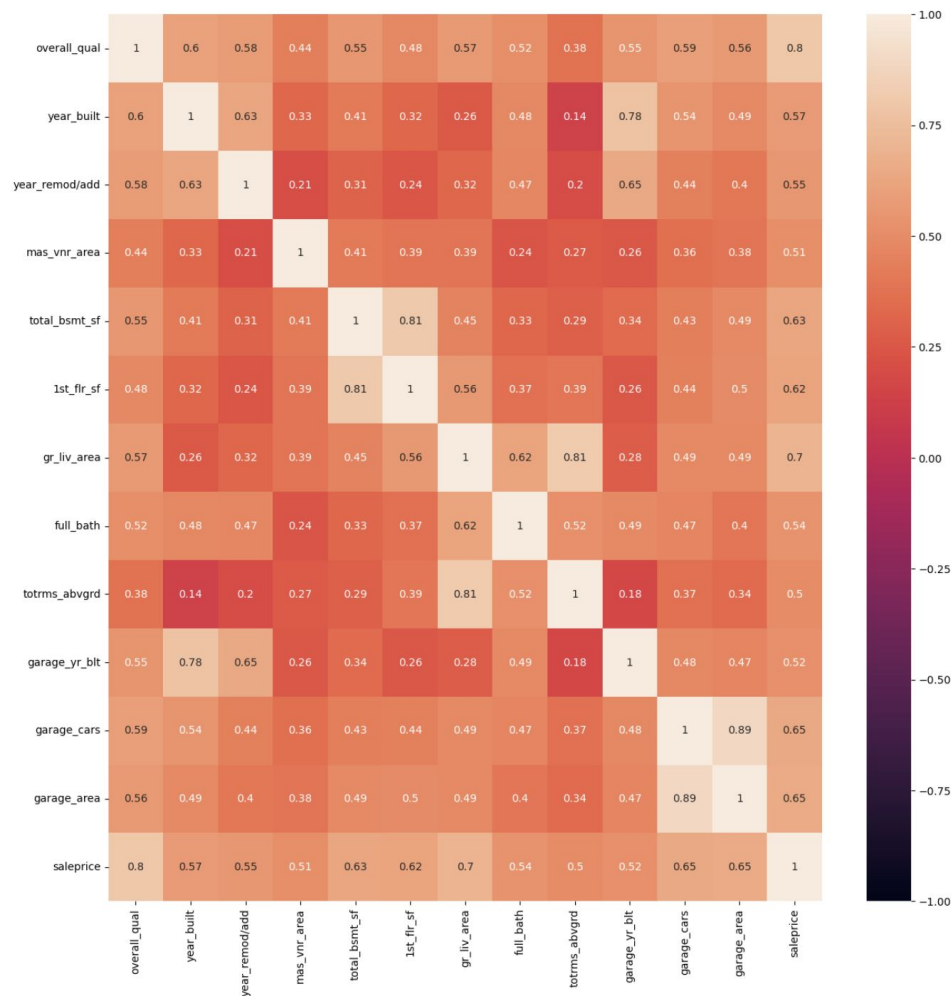
What Criteria Would Effect The House Pricing in Iowa

Trang Khong

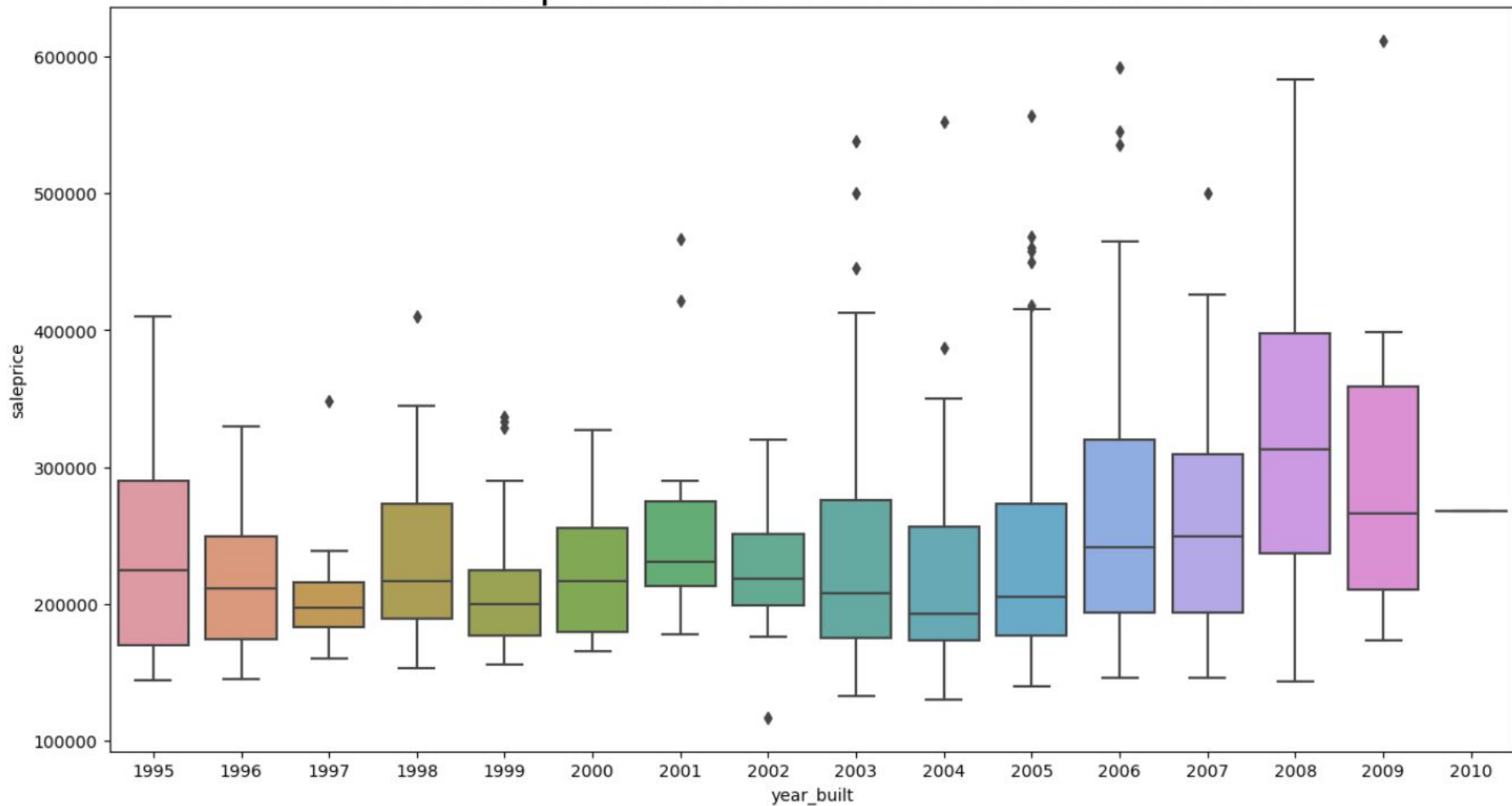
List of Criteria affect House Pricing

- Original construction date
- The Rates The Overall Material
- Total Square Feet of Basement Area
- Evaluates The Height of The Basement
- First Floor Square Feet
- Total Rooms Above Grade
- Ground Living Area
- Type of Dwelling

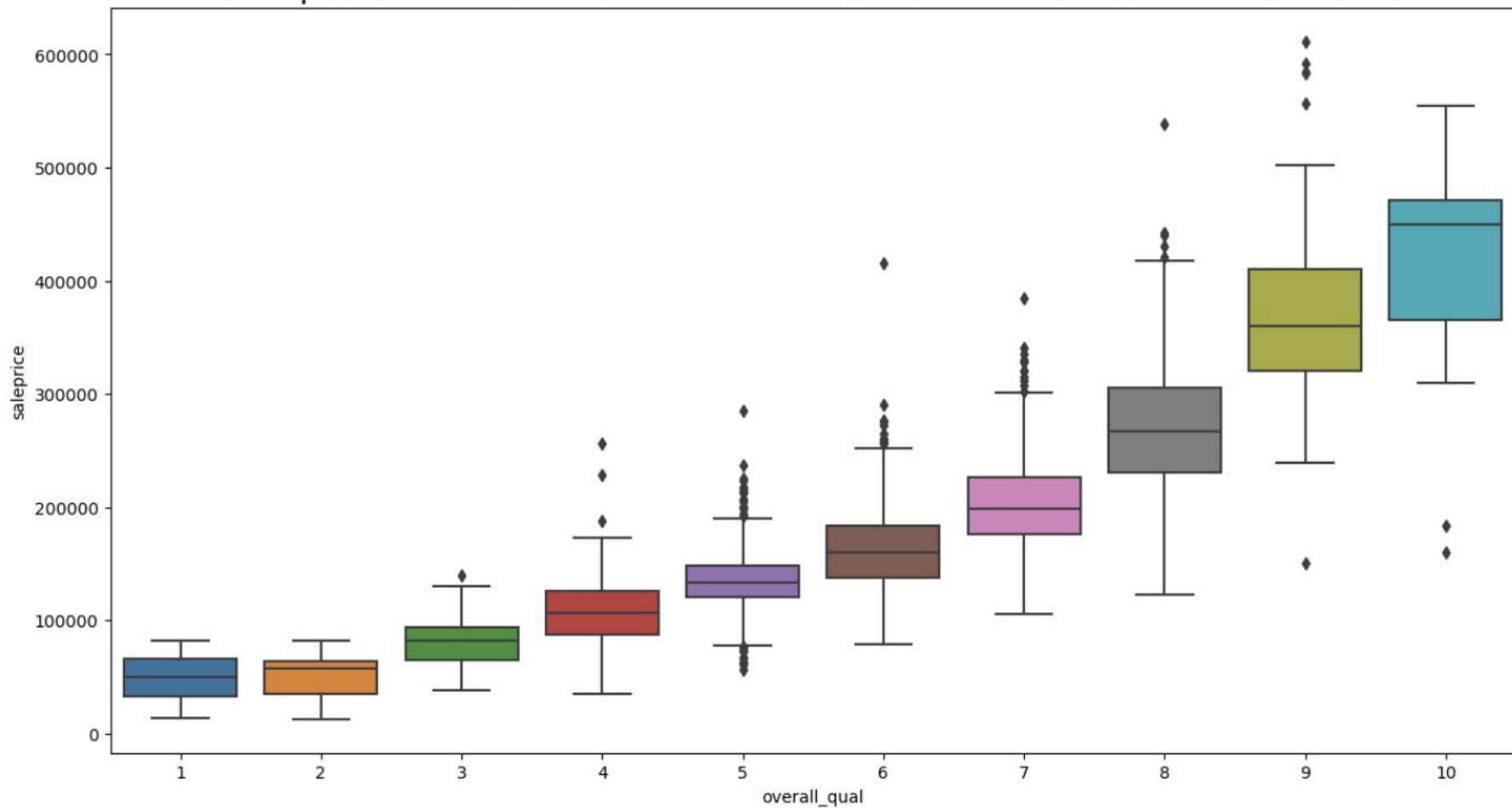
The correlation of sale price with other feature



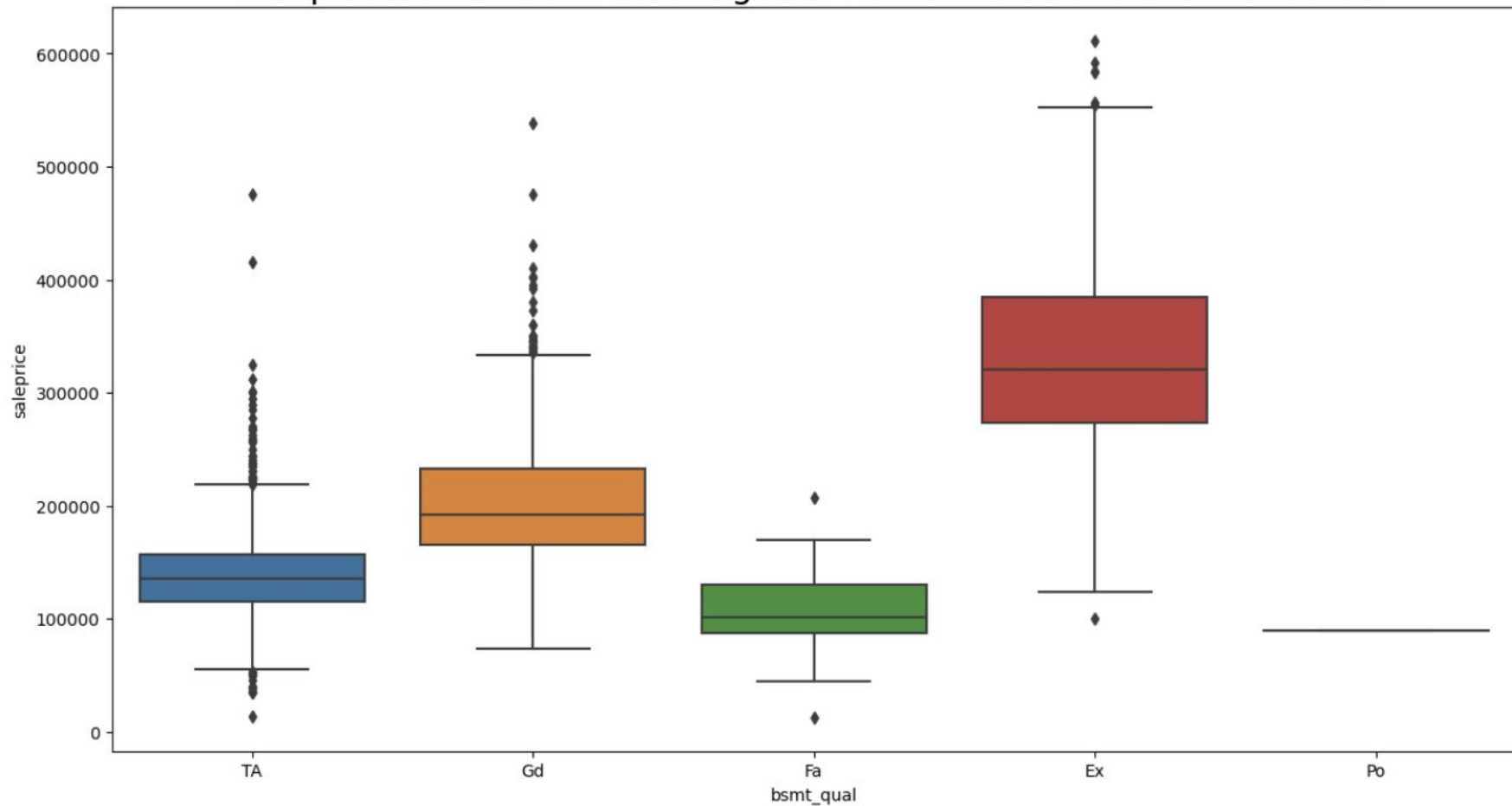
The Boxplot of Year Built versus Sale Price



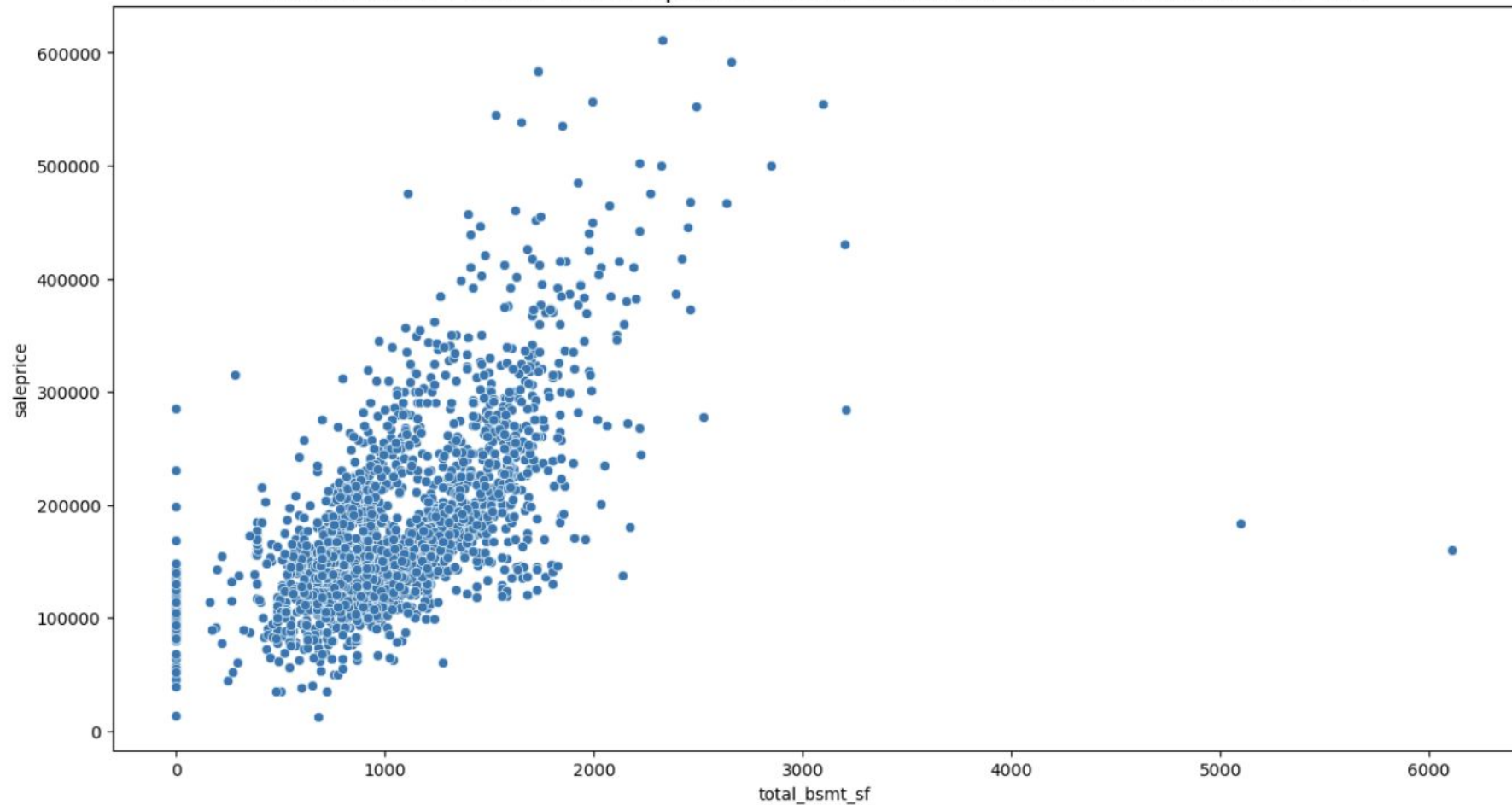
The Boxplot of Rates The Overall Material and Finish of The House versus Sale Price



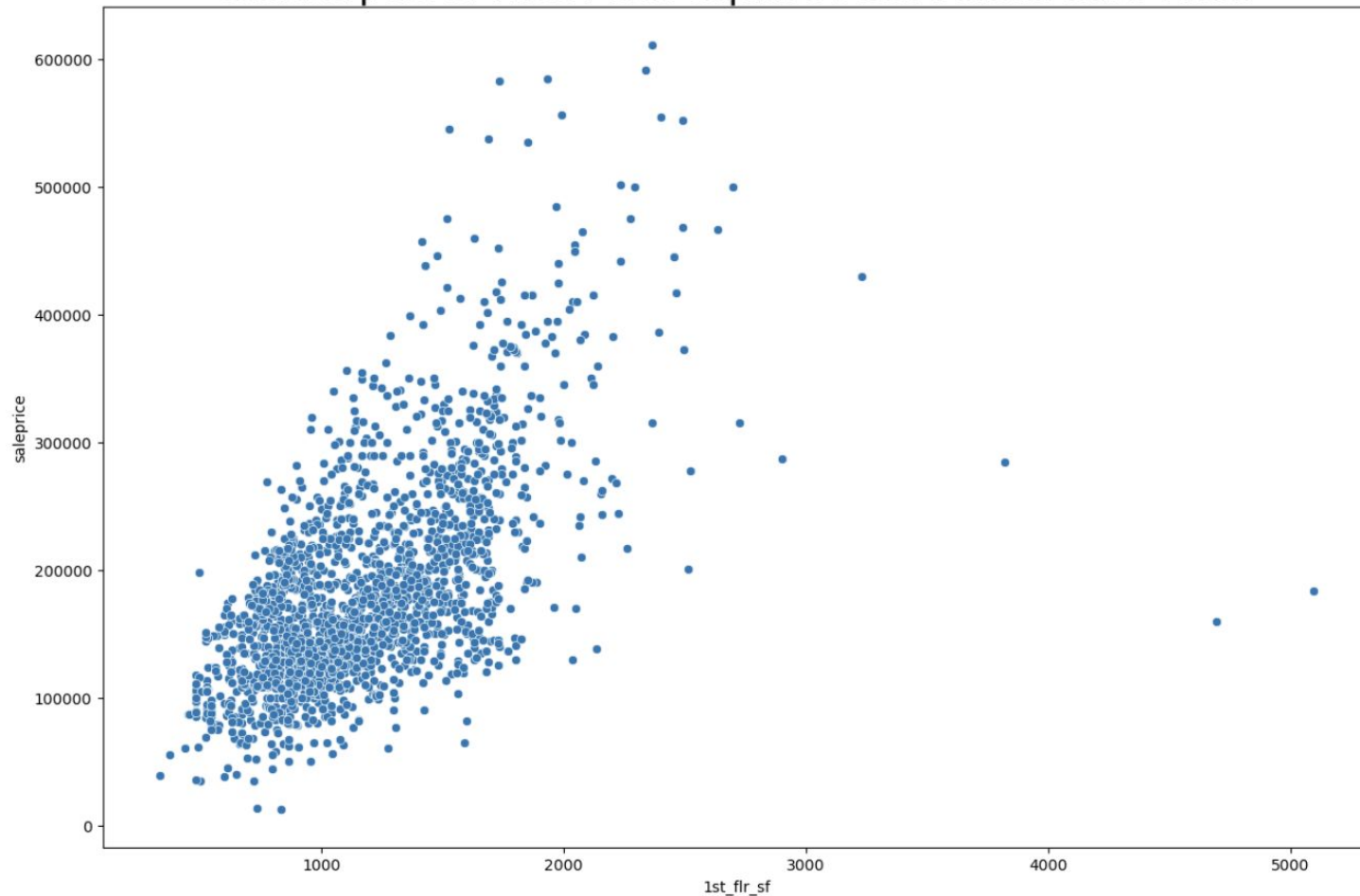
Boxplot of Evaluates The Height of The Basement versus Sale Price



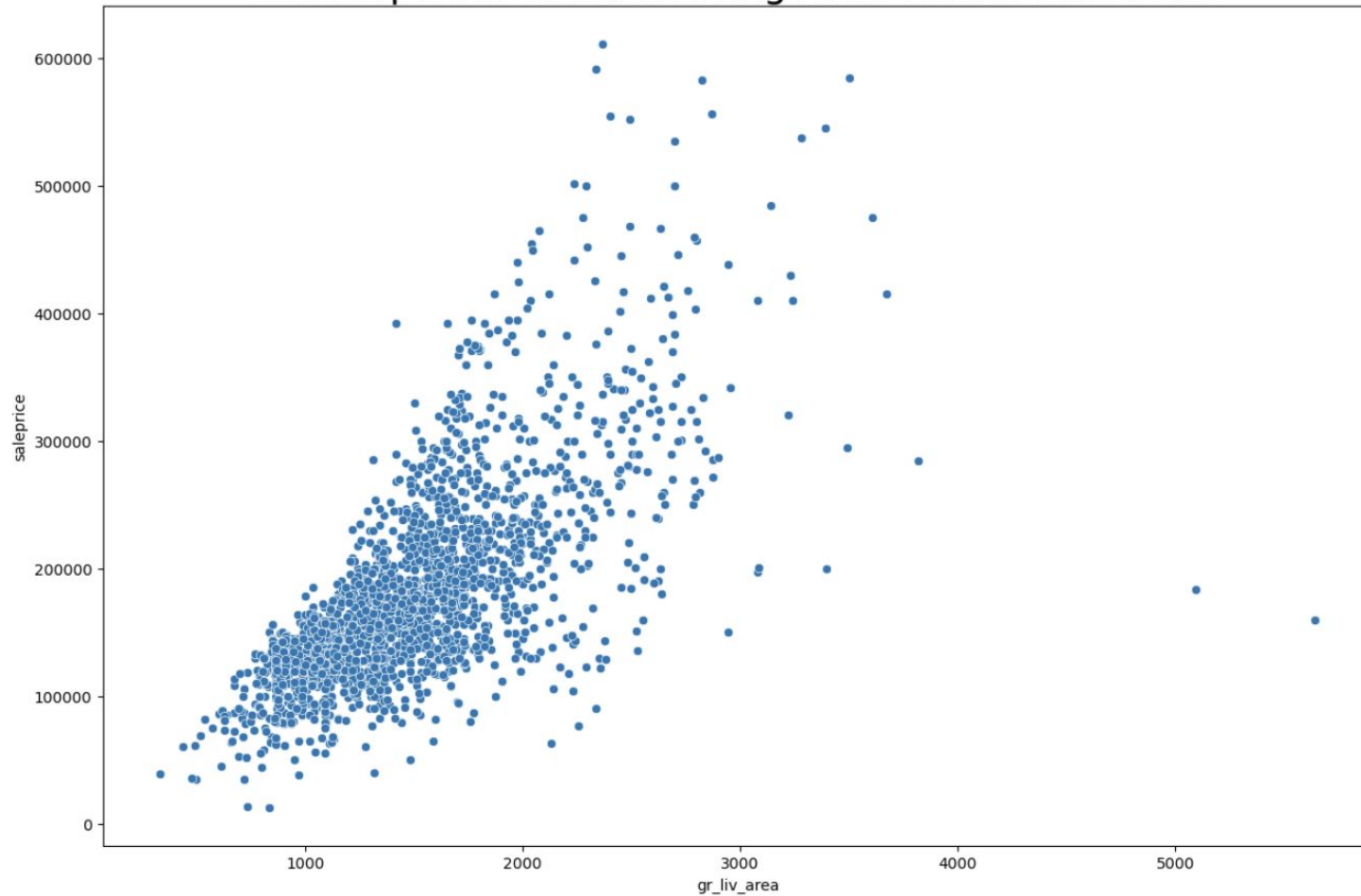
The Scatter Plot of Total Square Feet of Basement Area versus Sale Price



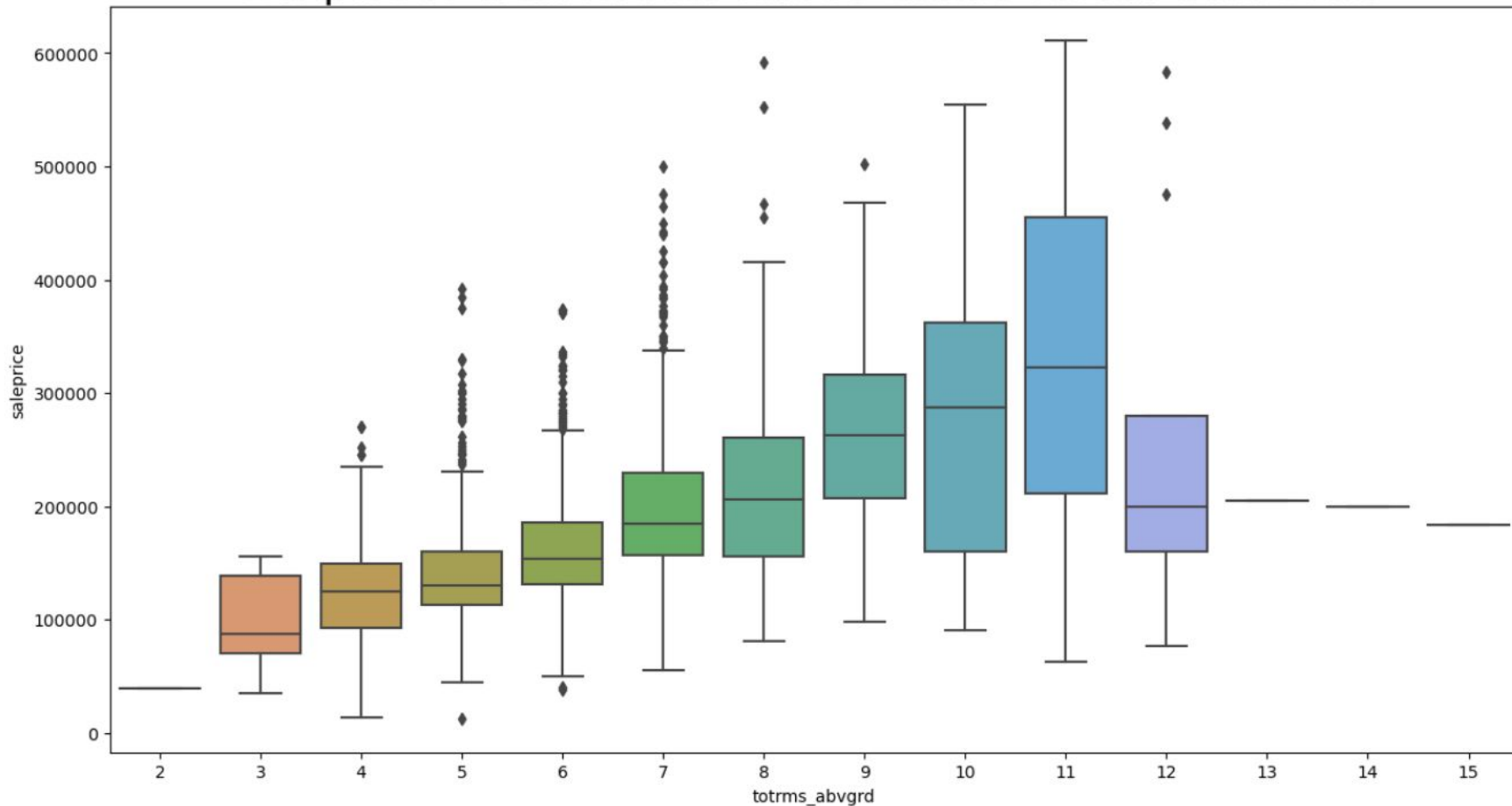
Scatterplot of First Floor Square Feet versus Sale Price



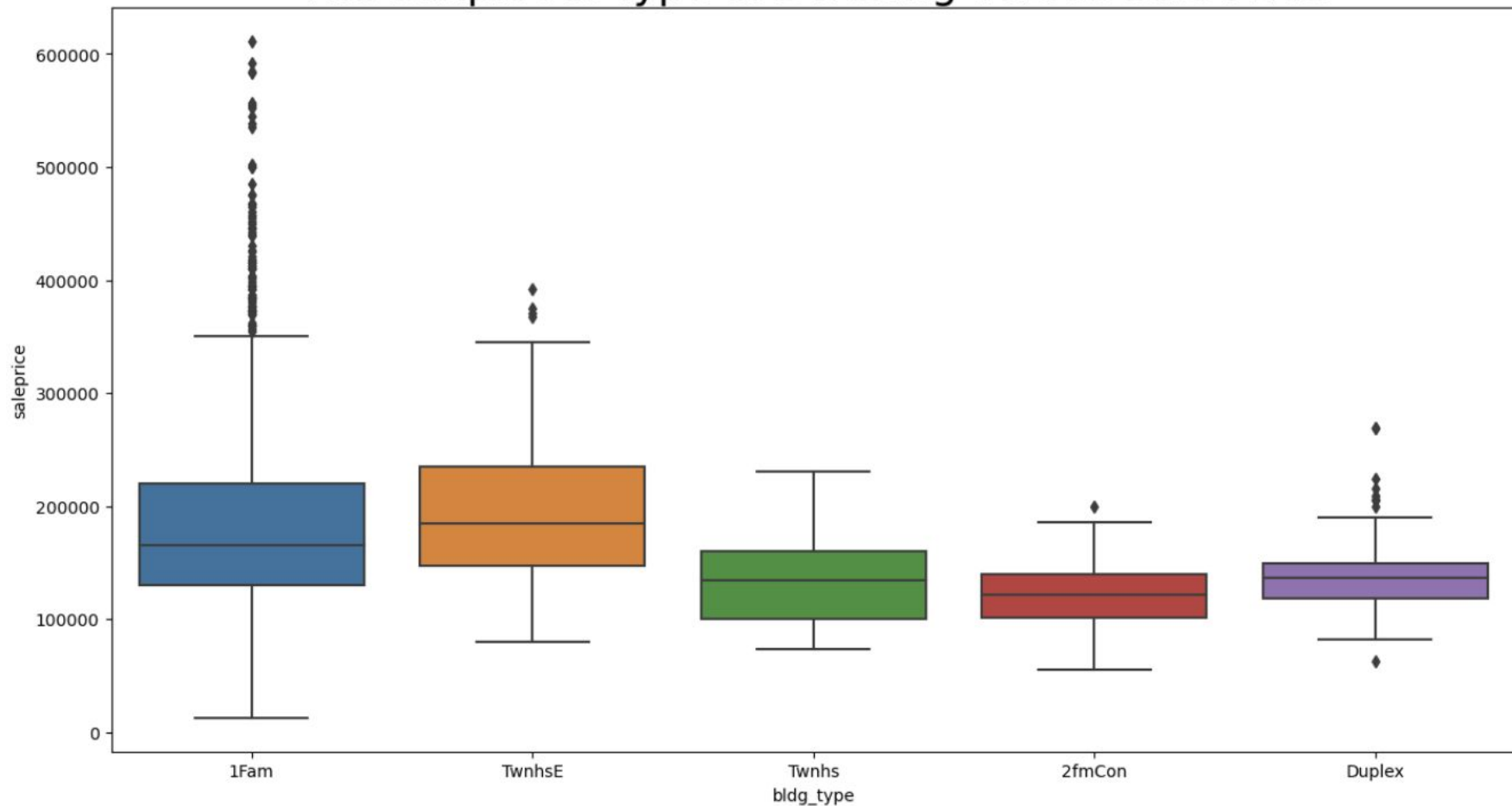
Scatterplot of Ground Living Area versus Sale Price



Boxplot of Total Rooms Above Grade versus Sale Price



The Boxplot of Type of Dwelling versus Sale Price



Conclusion

- A newer house would have a higher price.
- The quality of overall material and finish of the house go up, the sale price go up.
- The total square feet of the basement area , ground living area, and first floor square feet increase the sale price increase.
- Basement have the height above 80 inches would have higher price than others.
- Single family house are popular and have higher pricing.
- Total rooms of house (does not include bathrooms) between 7 and 12 would have higher price than others.

Reference

(<https://www.forbes.com/advisor/mortgages/real-estate/what-to-look-for-when-buying-a-house/>)

(<https://www.whitehouse.gov/cea/written-materials/2021/09/09/housing-prices-and-inflation/>))

(<https://lovehomedesigns.com/where-are-basements-common/#:~:text=On%20average%2C%20in%20the%20United,%2C%20Oklahoma%2C%20Iowa%2C%20Missouri.>)

(<http://jse.amstat.org/v19n3/decock/DataDocumentation.txt>))