# EDA

# Sale Price Distribution

**755.00K**
Max of SalePrice_Original
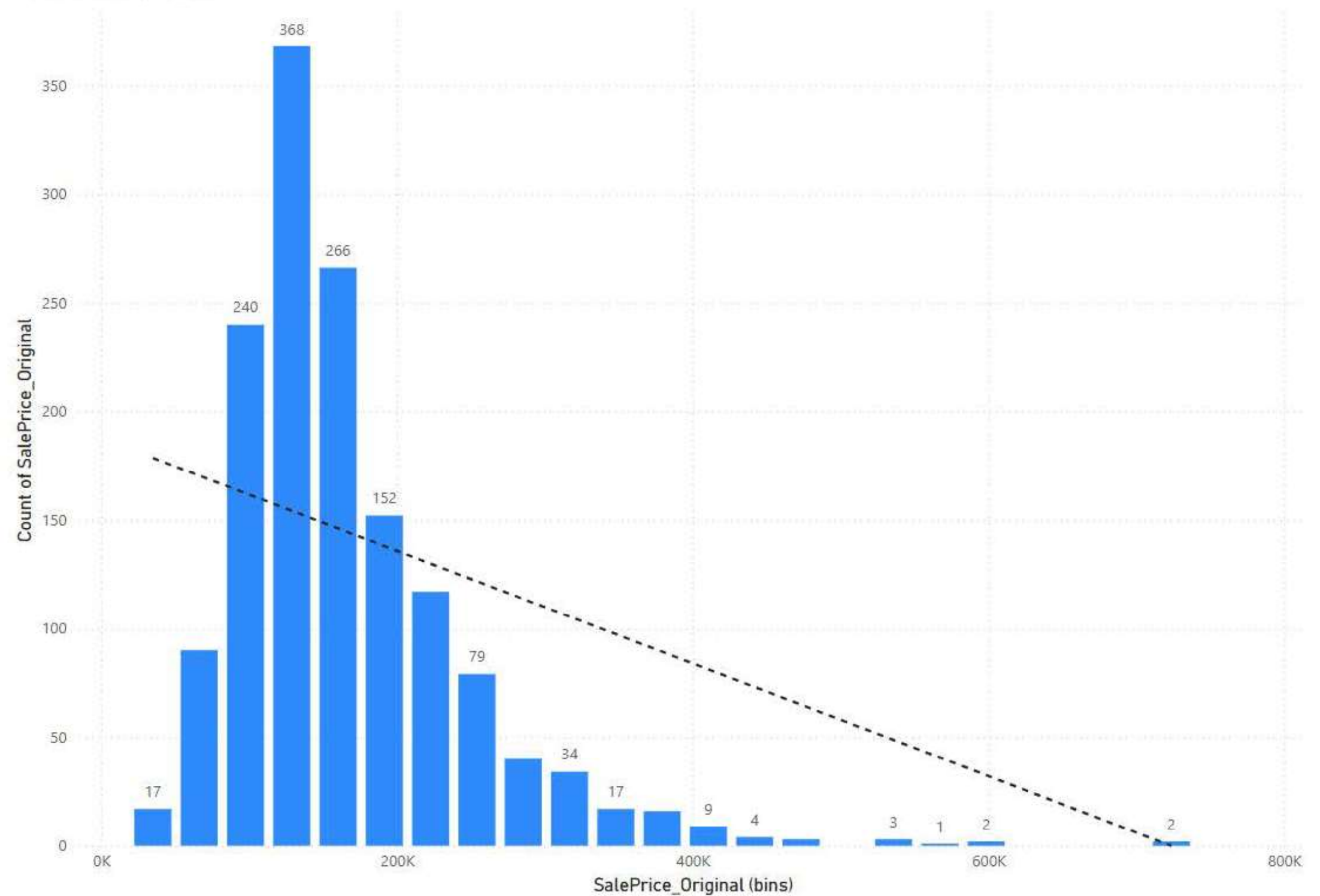
**34.90K**
Min of SalePrice_Original

**1460**
TotalRows

## Sale price Histogram



Count of SalePrice_Original vs SalePrice_Original (bins)

Values shown on bars: 17, 240, 368, 266, 152, 79, 34, 17, 9, 4, 3, 1, 2, 2

# Relationship between OverallQual and Sale Price

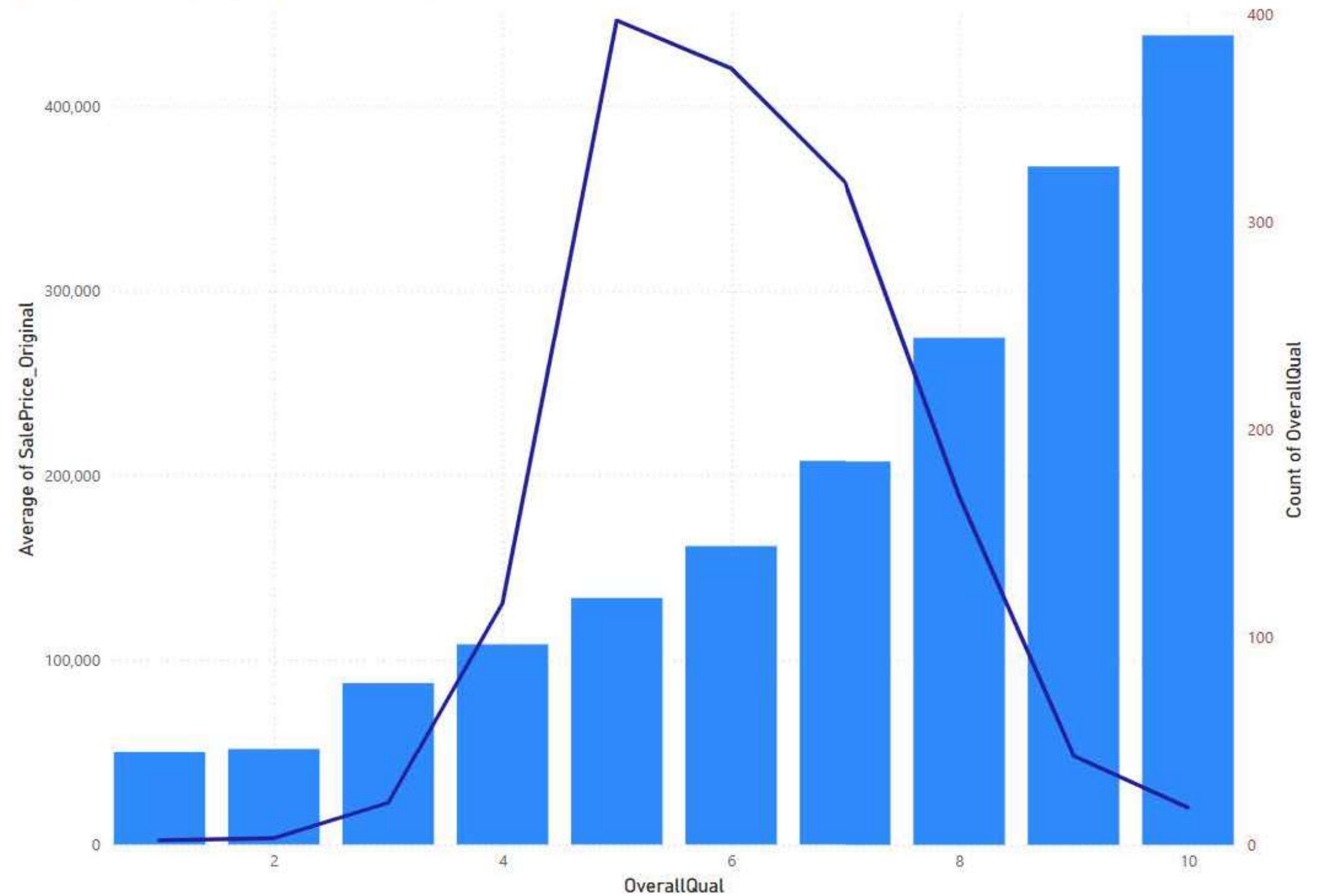OverallQual: Rates the overall material and finish of the house,""

10   Very Excellent
9    Excellent
8    Very Good
7    Good
6    Above Average
5    Average
4    Below Average
3    Fair
2    Poor
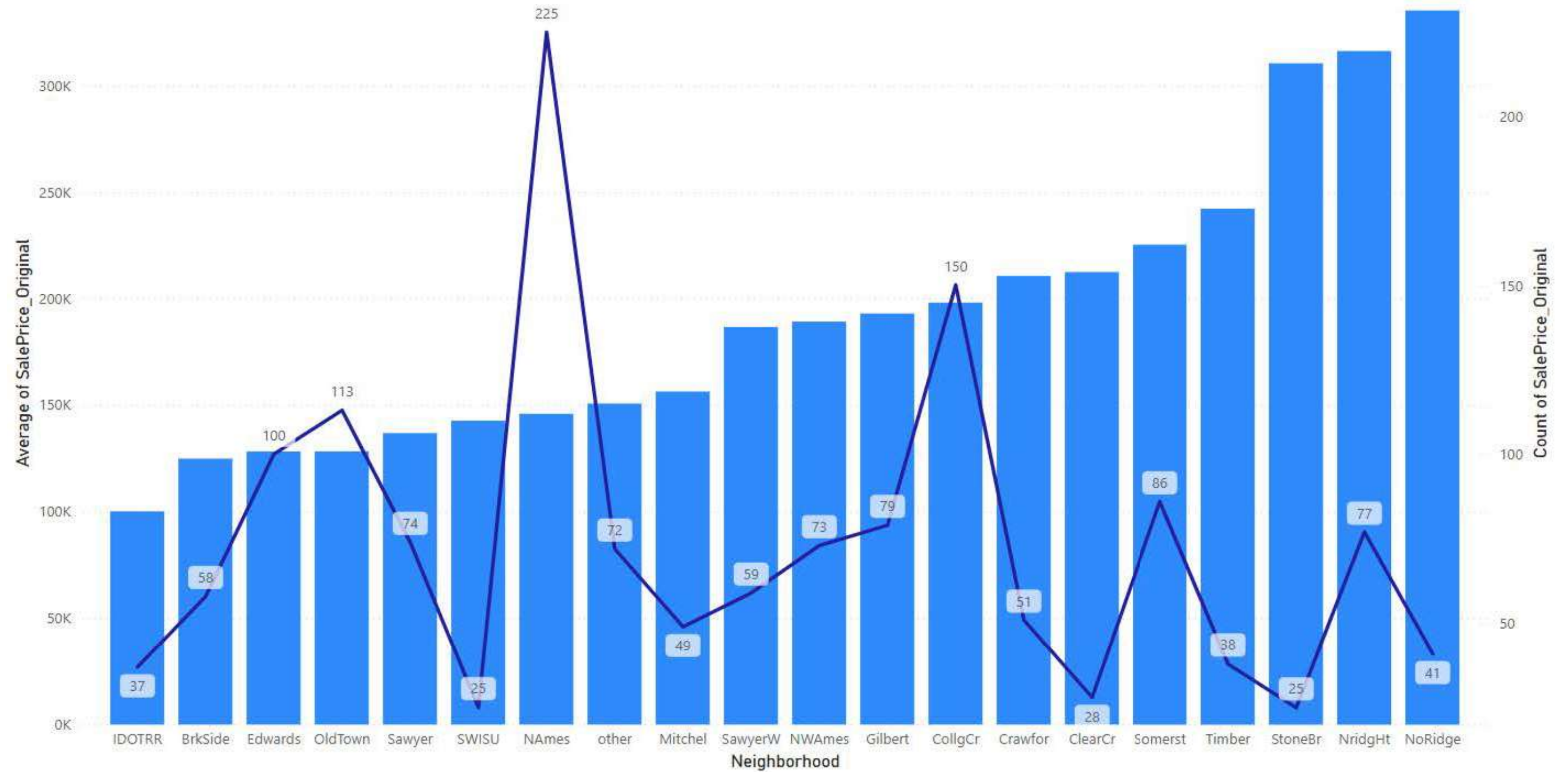1    Very Poor

## 1460
Count of OverallQual

## Avg Sale Price and OverallQual
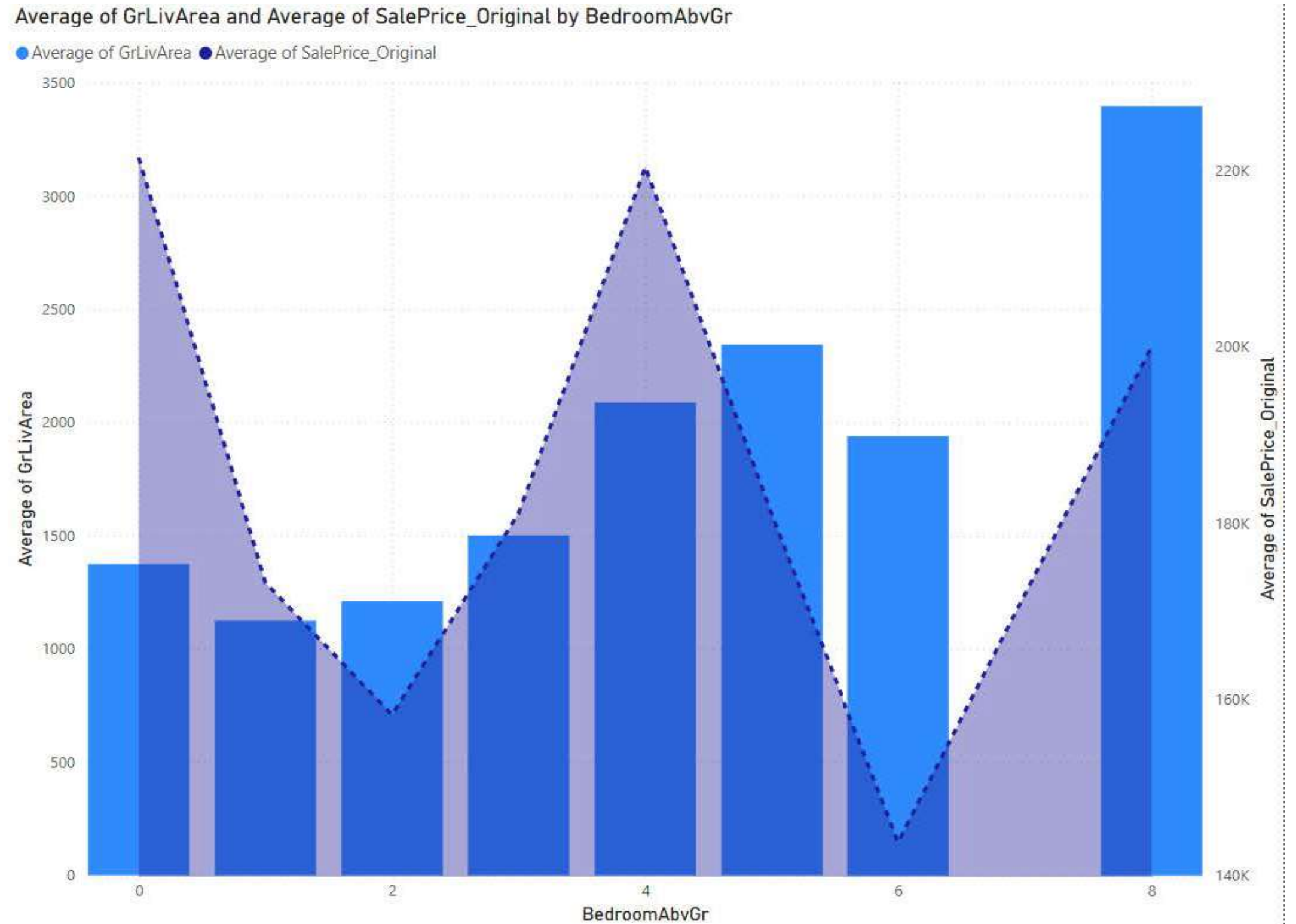
● Average of SalePrice_Original  ● Count of OverallQual

# Avg sale price and neighborhood

● Average of SalePrice_Original ● Count of SalePrice_Original

Average of GrLivArea and Average of SalePrice_Original by BedroomAbvGr

the houses with 2 and 3 and 4 number of rooms have more reliable insights because of having high number of observations.
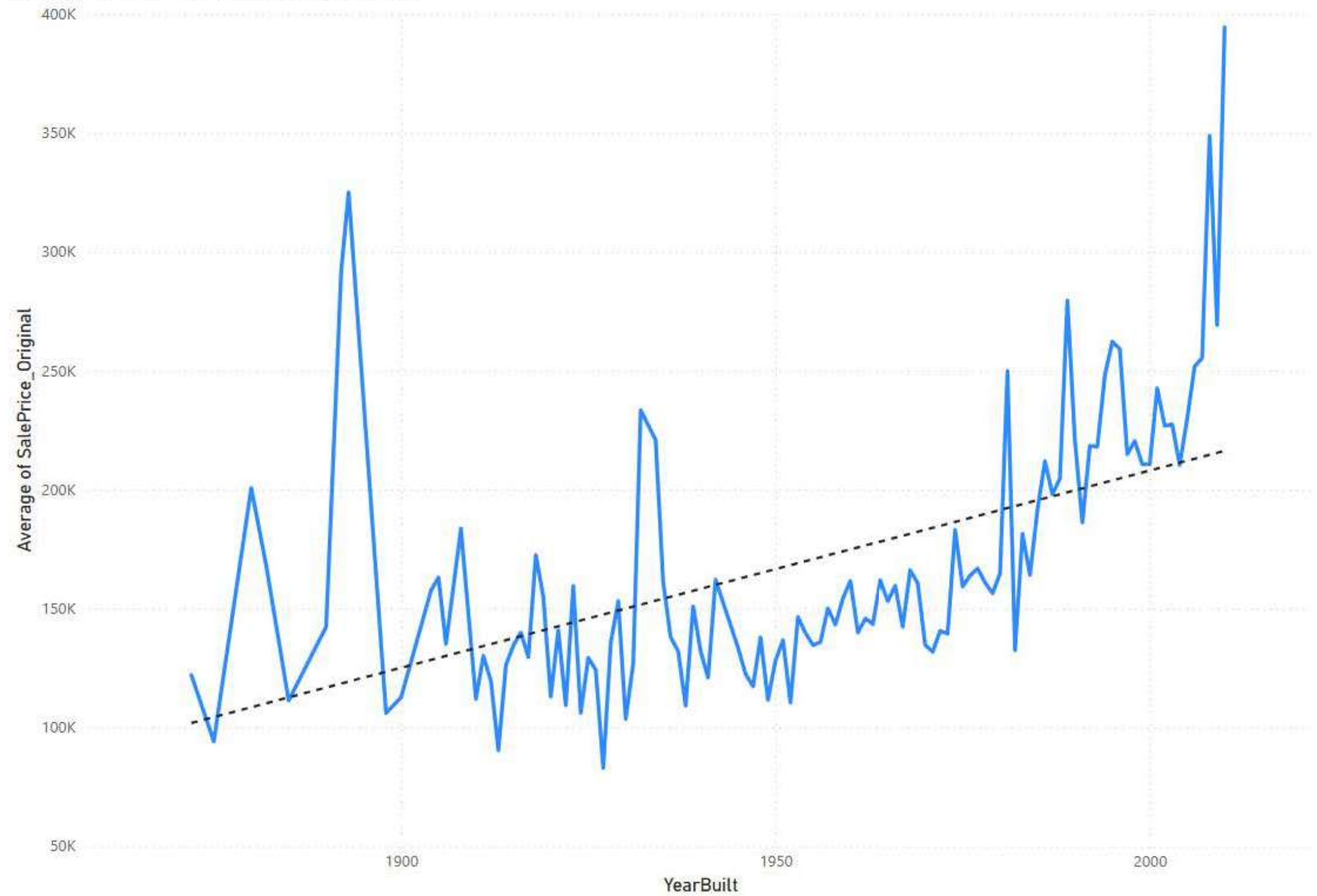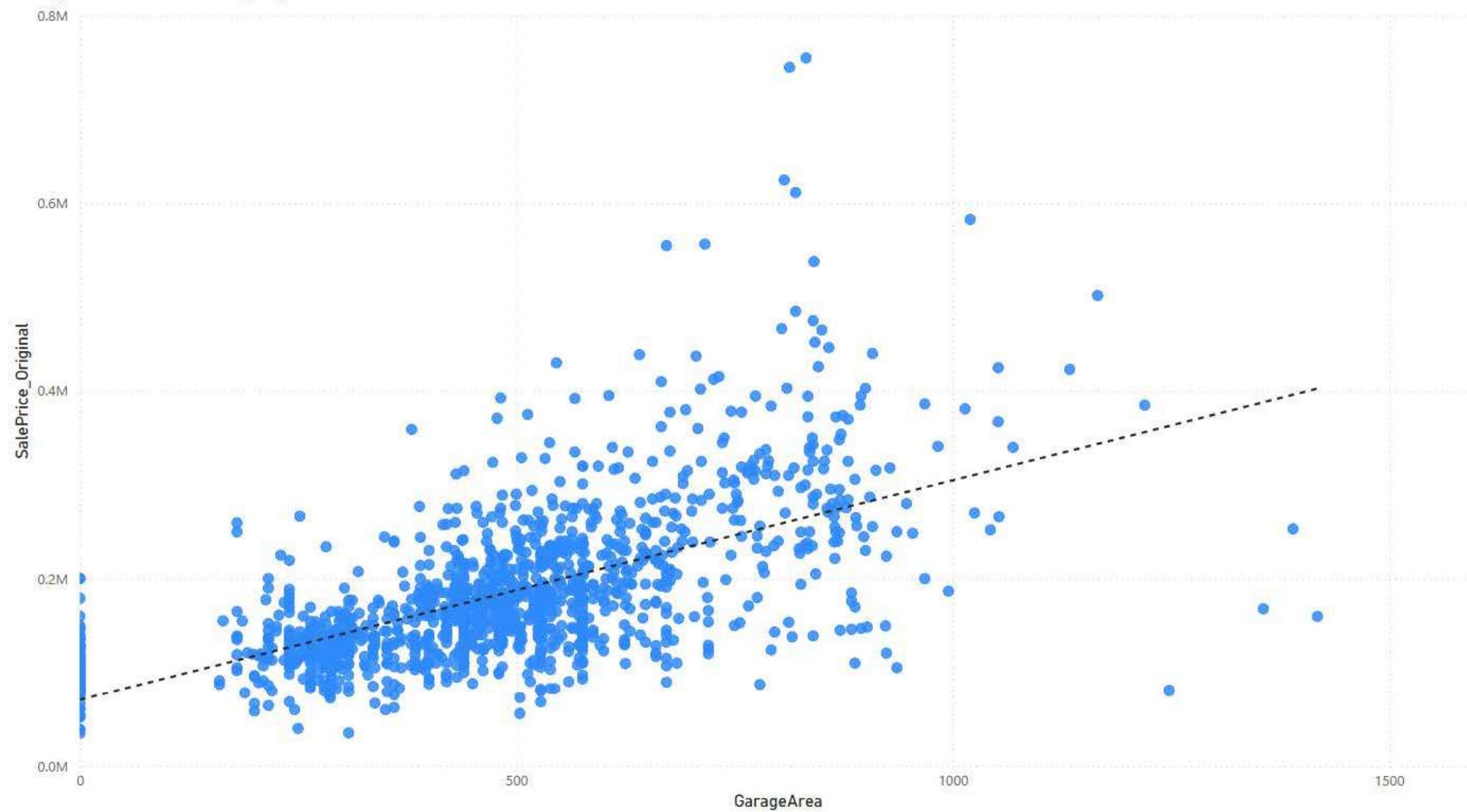
1460

TotalRows

Average of SalePrice_Original by YearBuilt

1872
Min of YearBuilt

2010
Max of YearBuilt

GarageArea and SalePrice_Original

# Prediction

# Actual Sale price & Predicted Sale price

● Average of ActualSalePrice ● Average of PredictedSalePrice

**174.33K**

Average of PredictedSalePrice

**178.55K**

Average of ActualSalePrice
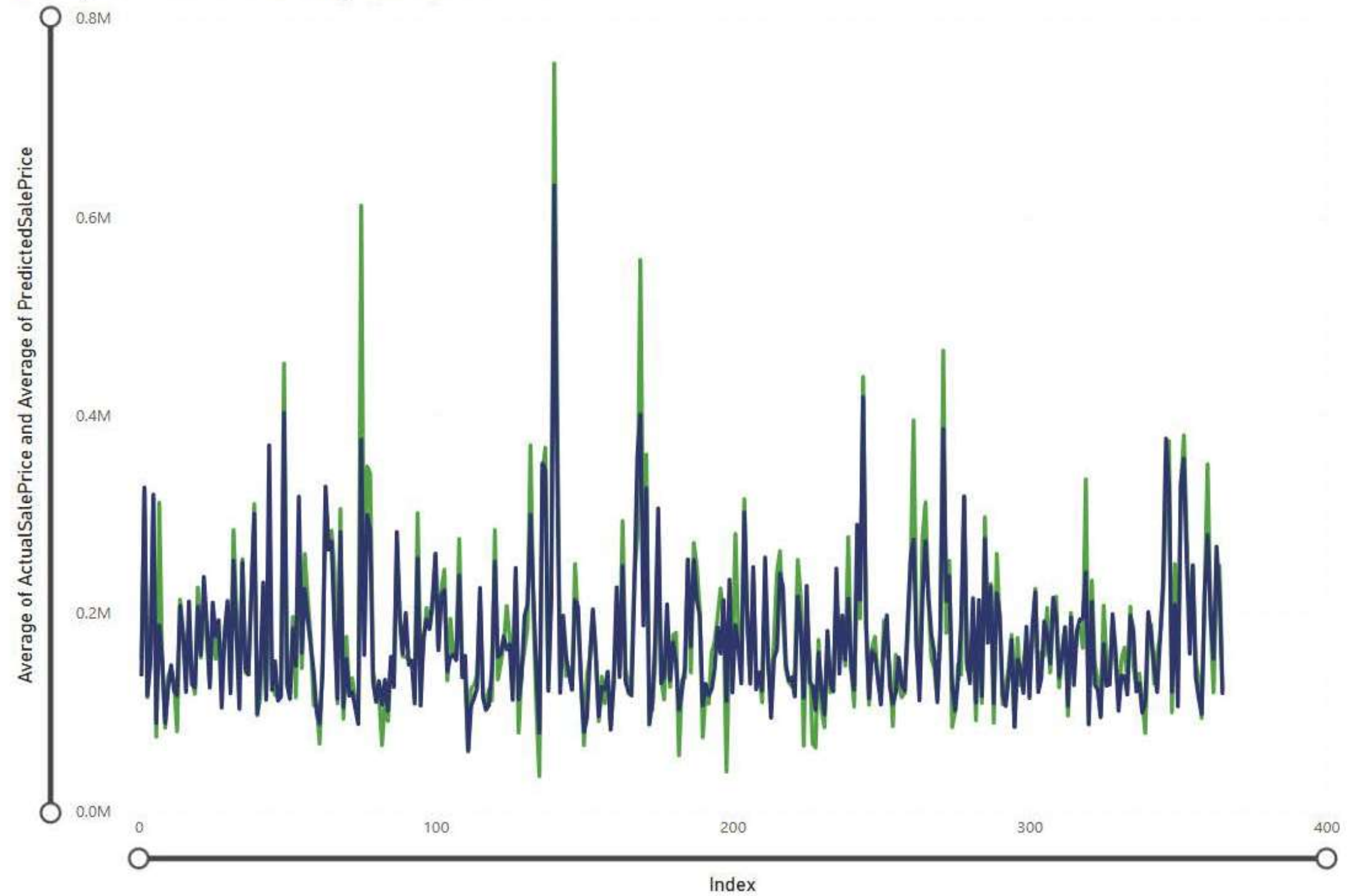
**Top Influencing Features on House Price Prediction**

Feature Names (top to bottom):
- BsmtQual_noBasement: -0.28
- BsmtQual_Fa: -0.24
- GarageFinish_noGarage: -0.18
- KitchenQual_Fa: 0.17
- ExterQual_Fa: -0.16
- BsmtQual_TA: -0.16
- KitchenQual_TA: -0.12
- GarageFinish_Unf: -0.10
- BsmtQual_Gd: -0.08
- KitchenQual_Gd: -0.06
- ExterQual_TA: -0.03
- ExterQual_Gd: -0.02
- GarageFinish_RFn: -0.01
- GrLivArea: 0.00
- GarageArea: 0.00
- OverallQual: 0.08

Feature Importance (Regression Coefficients)