## Final Regression Analysis

**Model: No_var_selection**
**Dependent Variable: SalePrice SalePrice**

| | |
|---|---|
| Number of Observations Read | 2630 |
| Number of Observations Used | 2630 |

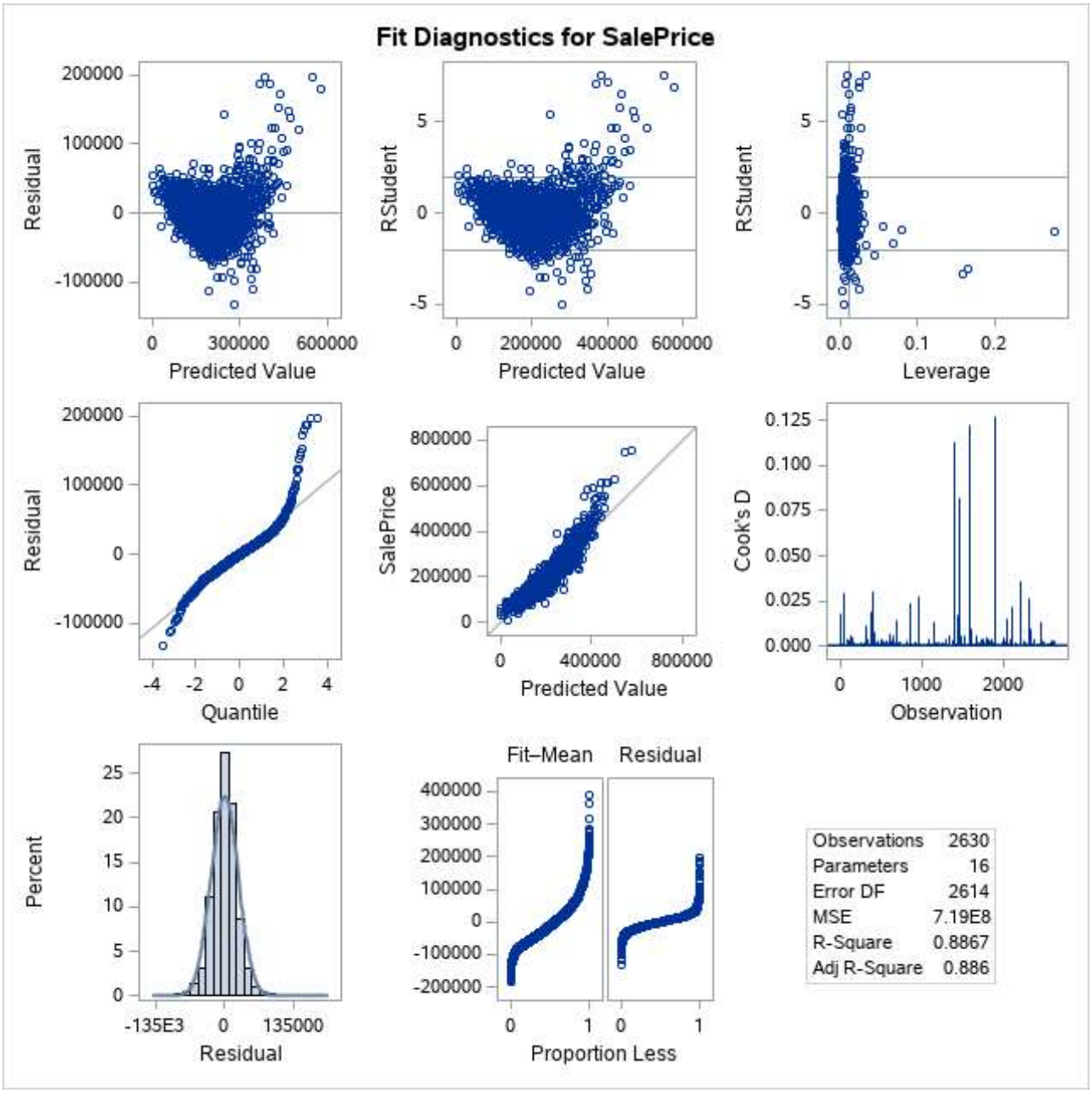
| Analysis of Variance | | | | | |
|---|---|---|---|---|---|
| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
| Model | 15 | 1.470792E13 | 9.805279E11 | 1363.52 | <.0001 |
| Error | 2614 | 1.879773E12 | 719117376 | | |
| Corrected Total | 2629 | 1.658769E13 | | | |

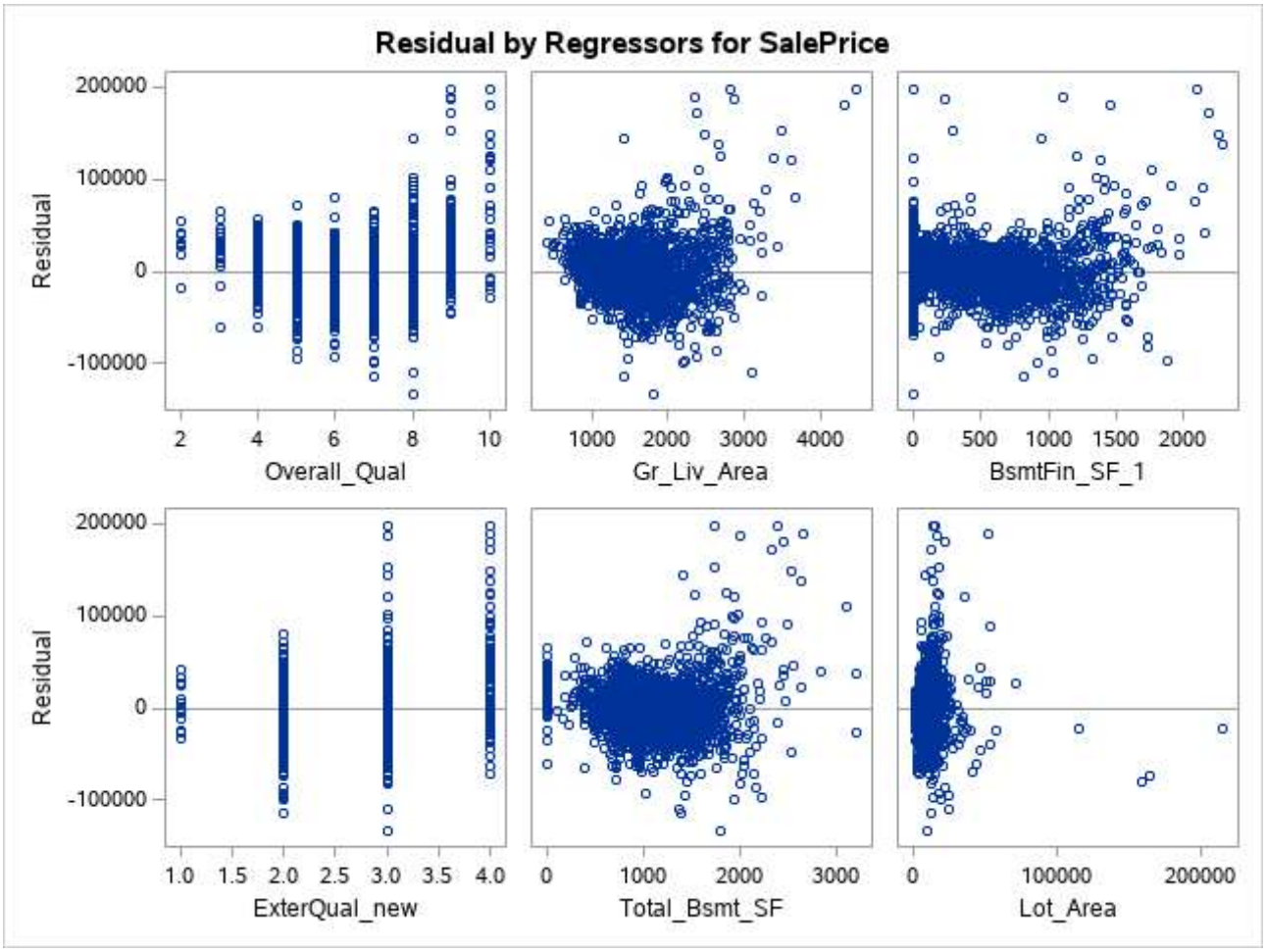
| | | | |
|---|---|---|---|
| Root MSE | 26816 | R-Square | 0.8867 |
| Dependent Mean | 185496 | Adj R-Sq | 0.8860 |
| Coeff Var | 14.45657 | | |

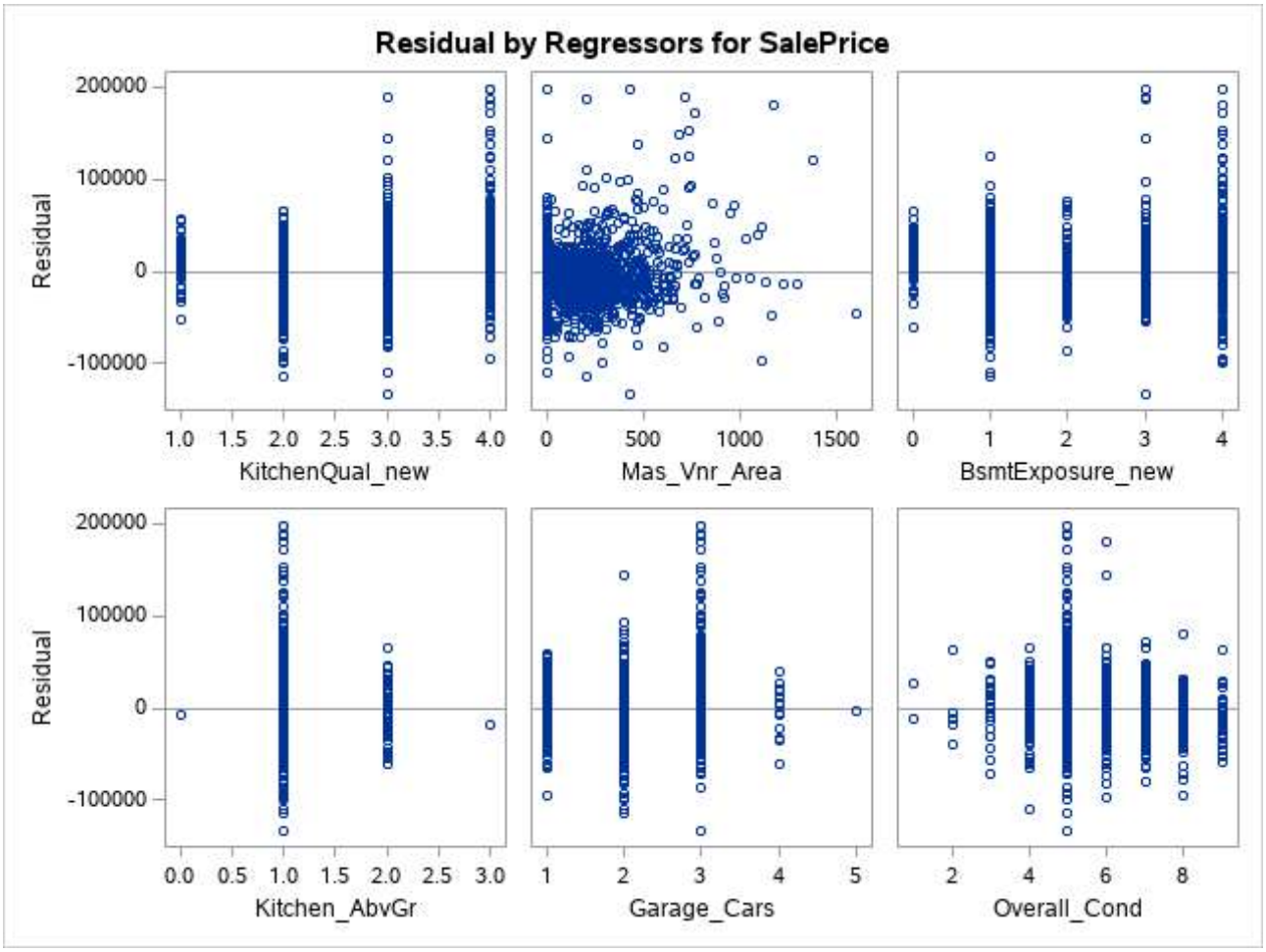
| Parameter Estimates | | | | | | |
|---|---|---|---|---|---|---|
| Variable | Label | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
| Intercept | Intercept | 1 | -572285 | 55227 | -10.36 | <.0001 |
| Overall_Qual | Overall_Qual | 1 | 11324 | 717.47492 | 15.78 | <.0001 |
| Gr_Liv_Area | Gr_Liv_Area | 1 | 67.62983 | 1.88404 | 35.90 | <.0001 |
| BsmtFin_SF_1 | BsmtFin_SF_1 | 1 | 22.56078 | 1.44551 | 15.61 | <.0001 |
| ExterQual_new | | 1 | 14845 | 1586.07342 | 9.36 | <.0001 |
| Total_Bsmt_SF | Total_Bsmt_SF | 1 | 23.13918 | 1.76138 | 13.14 | <.0001 |
| Lot_Area | Lot_Area | 1 | 0.57297 | 0.07250 | 7.90 | <.0001 |
| KitchenQual_new | | 1 | 9480.42707 | 1250.16299 | 7.58 | <.0001 |
| Mas_Vnr_Area | Mas_Vnr_Area | 1 | 30.80669 | 3.33675 | 9.23 | <.0001 |
| BsmtExposure_new | | 1 | 3898.20424 | 571.58756 | 6.82 | <.0001 |
| Kitchen_AbvGr | Kitchen_AbvGr | 1 | -23794 | 3039.98919 | -7.83 | <.0001 |
| Garage_Cars | Garage_Cars | 1 | 7750.13302 | 1159.17686 | 6.69 | <.0001 |
| Overall_Cond | Overall_Cond | 1 | 5508.71253 | 571.75854 | 9.63 | <.0001 |
| Year_Built | Year_Built | 1 | 232.31876 | 28.24768 | 8.22 | <.0001 |
| Lot_Frontage | Lot_Frontage | 1 | 213.26817 | 28.85711 | 7.39 | <.0001 |
| Bedroom_AbvGr | Bedroom_AbvGr | 1 | -6538.97435 | 894.50692 | -7.31 | <.0001 |

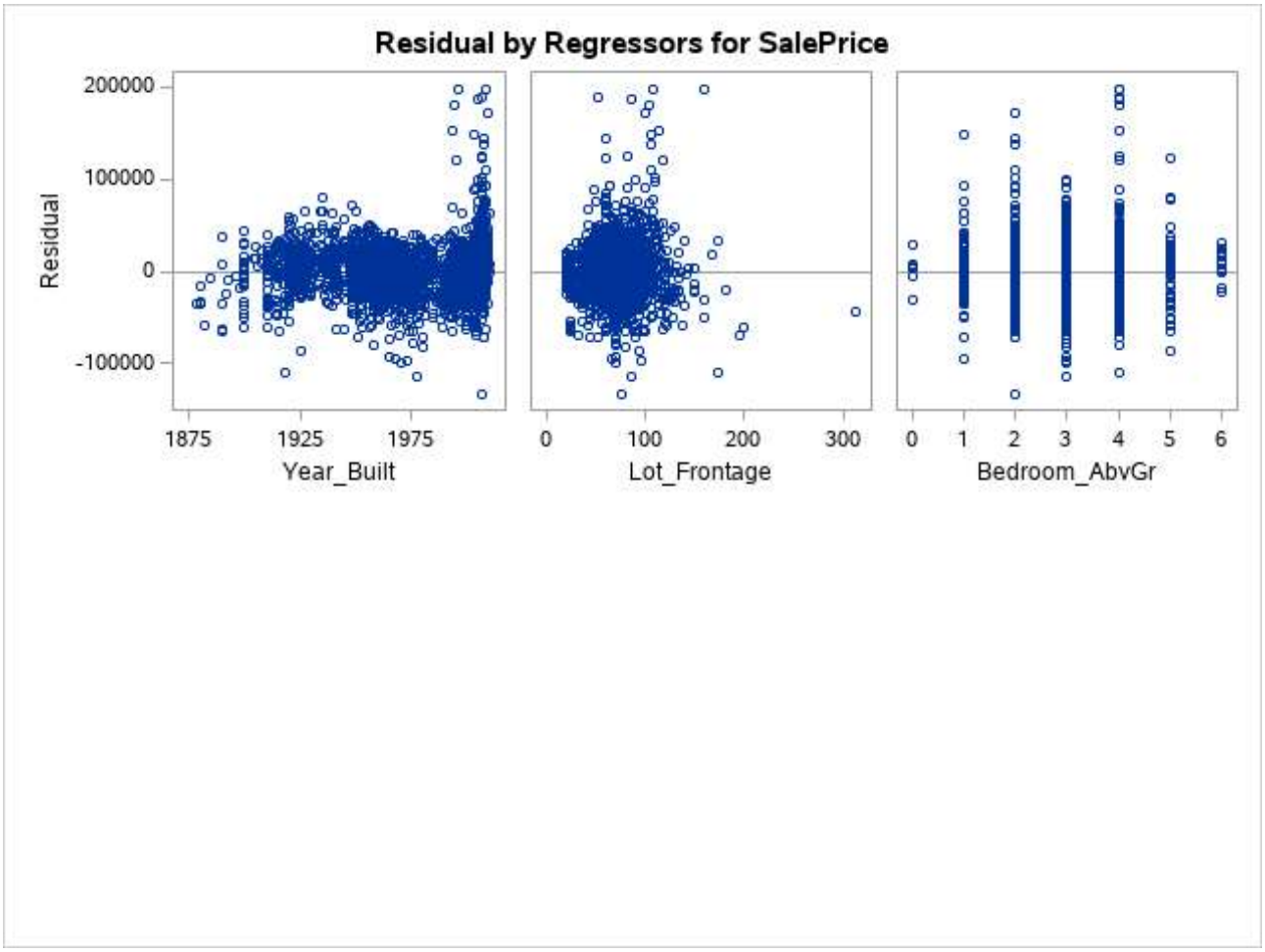

## Final Regression Analysis

**Model: No_var_selection**
**Dependent Variable: SalePrice SalePrice**


Fit Diagnostics for SalePrice
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
SalePrice
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 2630
Parameters 16
Error DF 2614
MSE 7.19E8
R-Square 0.8867
Adj R-Square 0.886


Residual by Regressors for SalePrice
Residual
200000
100000
0
-100000
2
4
6
8
10
Overall_Qual
1000
2000
3000
4000
Gr_Liv_Area
0
500
1000
1500
2000
BsmtFin_SF_1
1.0
1.5
2.0
2.5
3.0
3.5
4.0
ExterQual_new
0
1000
2000
3000
Total_Bsmt_SF
0
100000
200000
Lot_Area


Residual by Regressors for SalePrice
Residual
200000
100000
0
-100000
1.0
1.5
2.0
2.5
3.0
3.5
4.0
KitchenQual_new
0
500
1000
1500
Mas_Vnr_Area
0
1
2
3
4
BsmtExposure_new
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Kitchen_AbvGr
1
2
3
4
5
Garage_Cars
2
4
6
8
Overall_Cond


Residual by Regressors for SalePrice
Residual
200000
100000
0
-100000
1875
1925
1975
Year_Built
0
100
200
300
Lot_Frontage
0
1
2
3
4
5
6
Bedroom_AbvGr