

Resultados

Cícero

2022-09-30

R Markdown

Variáveis testadas:

SalePrice x LotArea : Significativa

SalePrice x ExterQual : Significativa

SalePrice x ExterCond : significativa

SalePrice x OverallCond : Meio meh

SalePrice x Neighborhood : significativa para algumas vizinhanças

SalePrice x TotalBsmtSF : significativa

SalePrice x MiscVal : Poha nenhuma

SalePrice x MiscFeature : Poha nenhuma

```
dados <- read.csv('train.csv')
modeloLotArea <- lm(SalePrice ~ LotArea,dados)
anova(modeloLotArea)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## LotArea      1 6.4099e+11 6.4099e+11  109.09 < 2.2e-16 ***
## Residuals 1458 8.5669e+12 5.8758e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
modeloExterQual <- lm(SalePrice ~ ExterQual,dados)
anova(modeloExterQual)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## ExterQual     3 4.3957e+12 1.4652e+12  443.33 < 2.2e-16 ***
## Residuals 1456 4.8122e+12 3.3051e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
modeloExterCond <- lm(SalePrice ~ ExterCond,dados)
anova(modeloExterCond)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## ExterCond    4 2.1747e+11 5.4367e+10  8.7987 5.107e-07 ***
## Residuals 1455 8.9904e+12 6.1790e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
modeloOverallCond <- lm(SalePrice ~ OverallCond,dados)
anova(modeloOverallCond)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## OverallCond    1 5.5814e+10 5.5814e+10  8.8916 0.002912 **
## Residuals  1458 9.1521e+12 6.2772e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
modeloNeighborhood <- lm(SalePrice ~ Neighborhood,dados)
anova(modeloNeighborhood)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## Neighborhood   24 5.0236e+12 2.0932e+11 71.785 < 2.2e-16 ***
## Residuals  1435 4.1843e+12 2.9159e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
modeloTotalBsmtSF <- lm(SalePrice ~ TotalBsmtSF,dados)
anova(modeloTotalBsmtSF)
```

```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq   Mean Sq F value    Pr(>F)
## TotalBsmtSF     1 3.4666e+12 3.4666e+12 880.34 < 2.2e-16 ***
## Residuals  1458 5.7413e+12 3.9378e+09
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

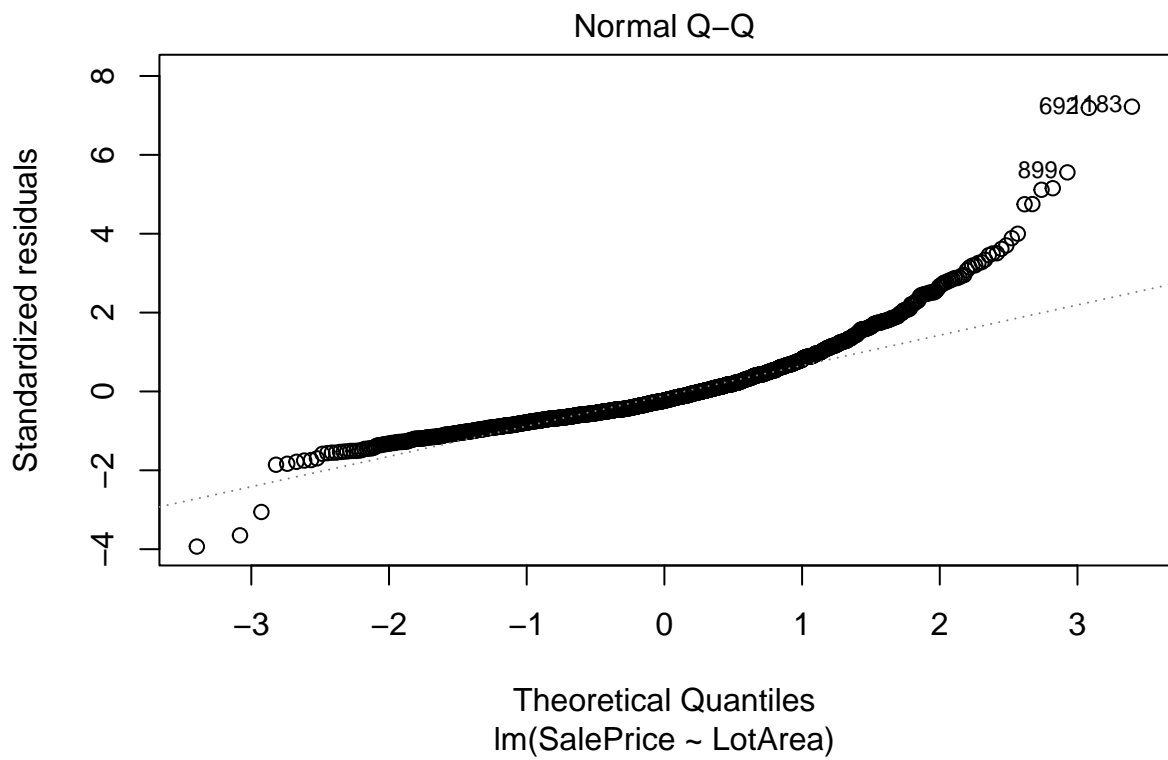
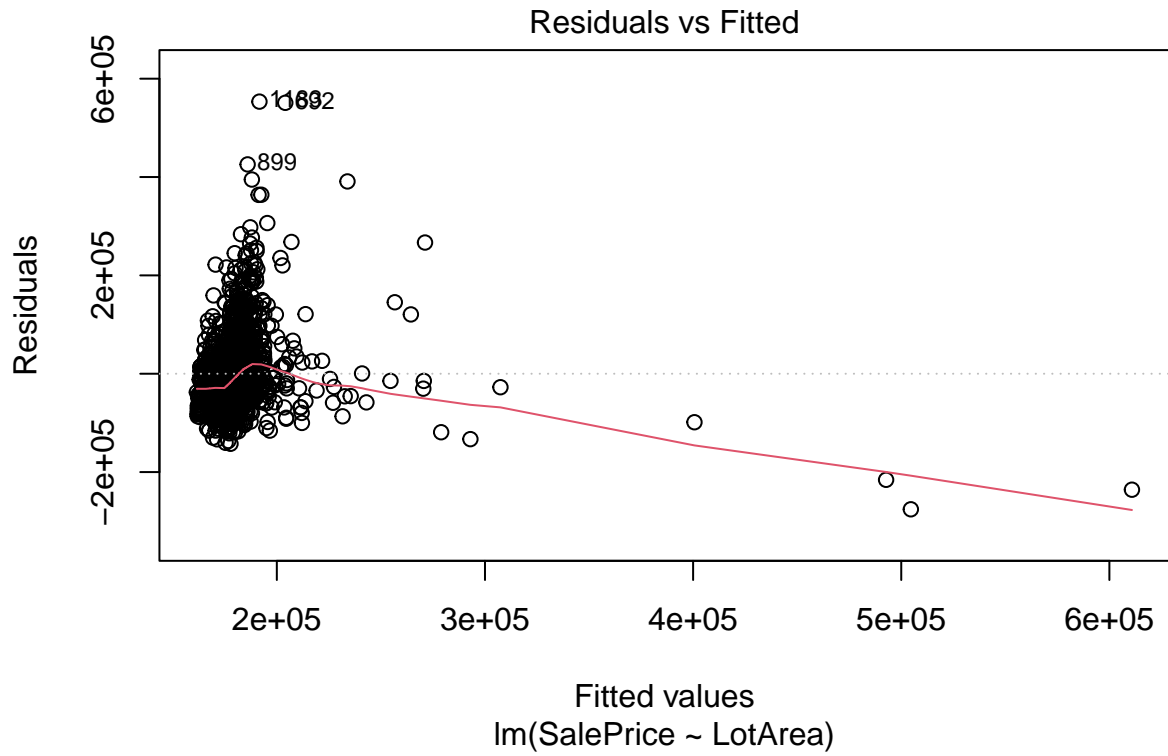
```
modeloMiscVal <- lm(SalePrice ~ MiscVal,dados)
anova(modeloMiscVal)
```

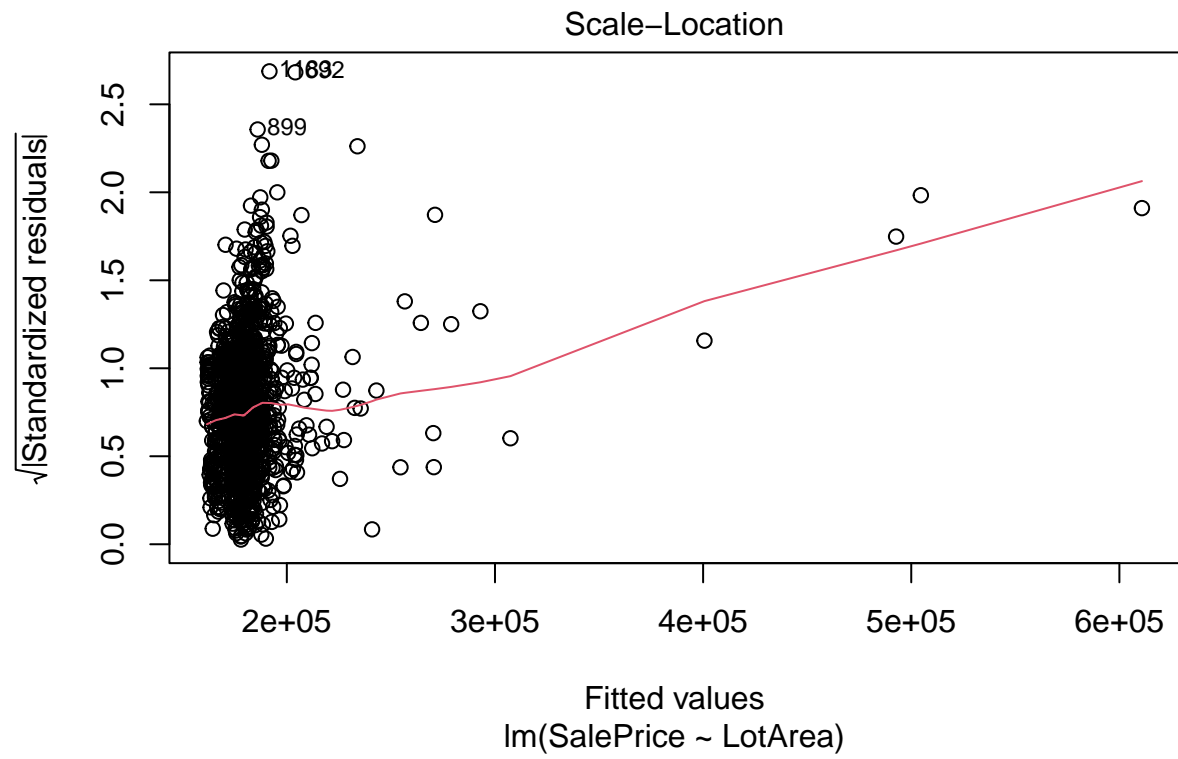
```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq    Mean Sq F value Pr(>F)
## MiscVal      1 4.1343e+09 4134336401  0.6549 0.4185
## Residuals 1458 9.2038e+12 6312604251
```

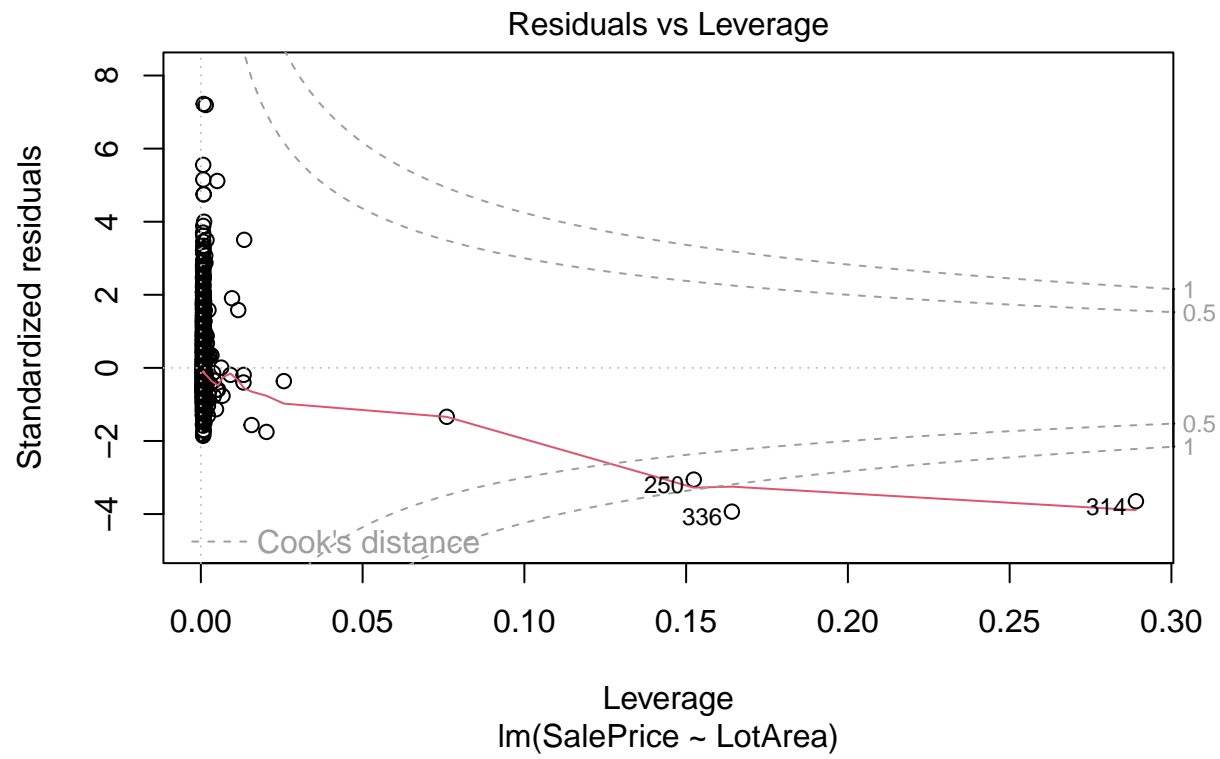
```
modeloMiscFeature <- lm(SalePrice ~ MiscFeature,dados)
anova(modeloMiscFeature)
```

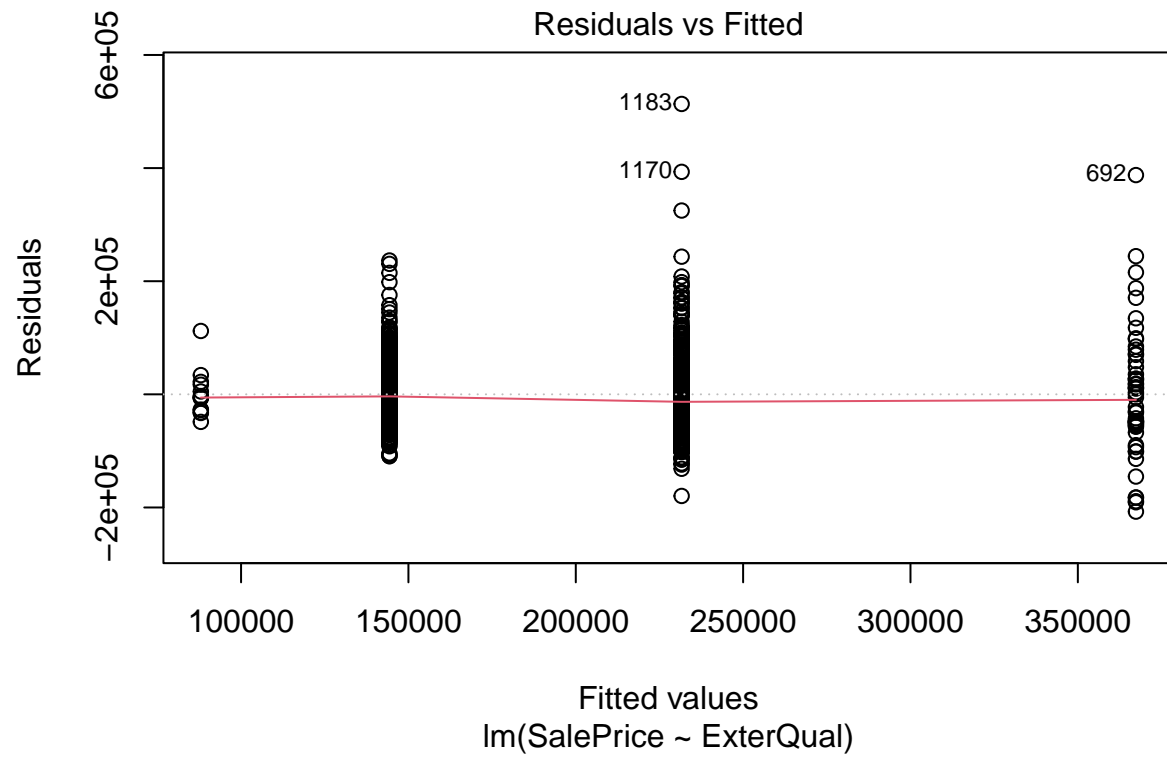
```
## Analysis of Variance Table
##
## Response: SalePrice
##           Df      Sum Sq    Mean Sq F value Pr(>F)
## MiscFeature  3 1.706e+10 5686609053  2.1573 0.1047
## Residuals   50 1.318e+11 2635955007
```

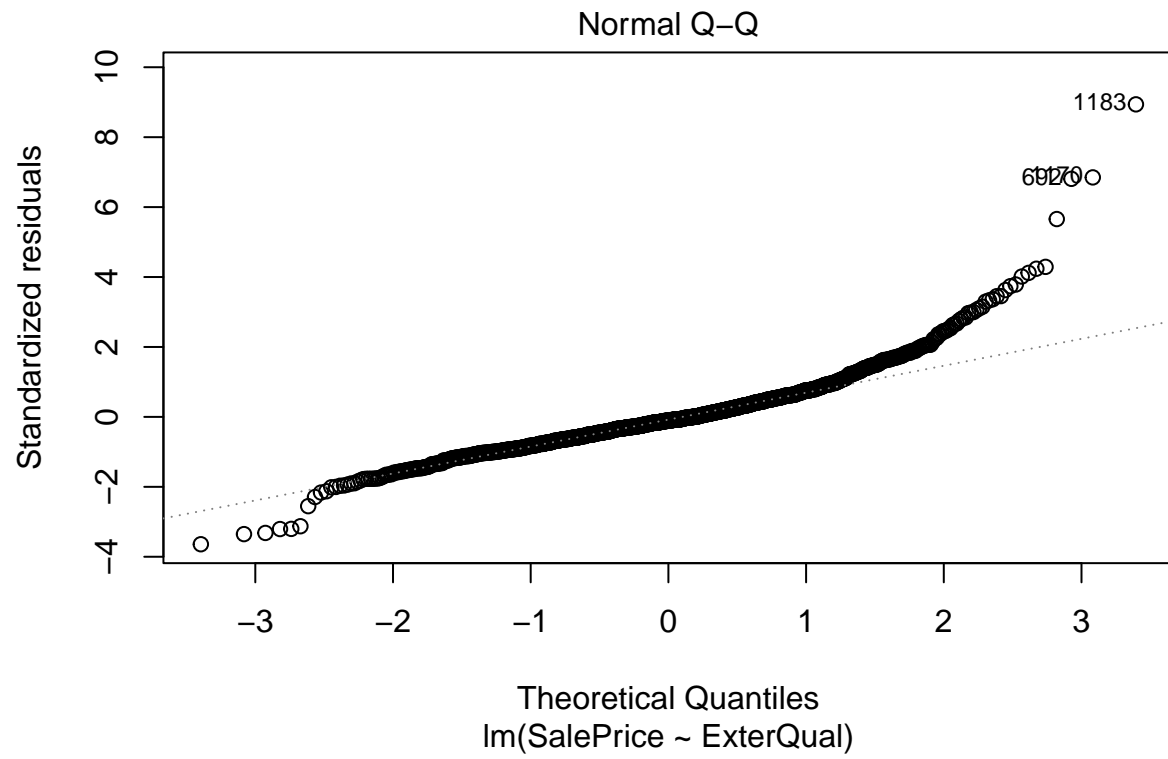
Lm Plots

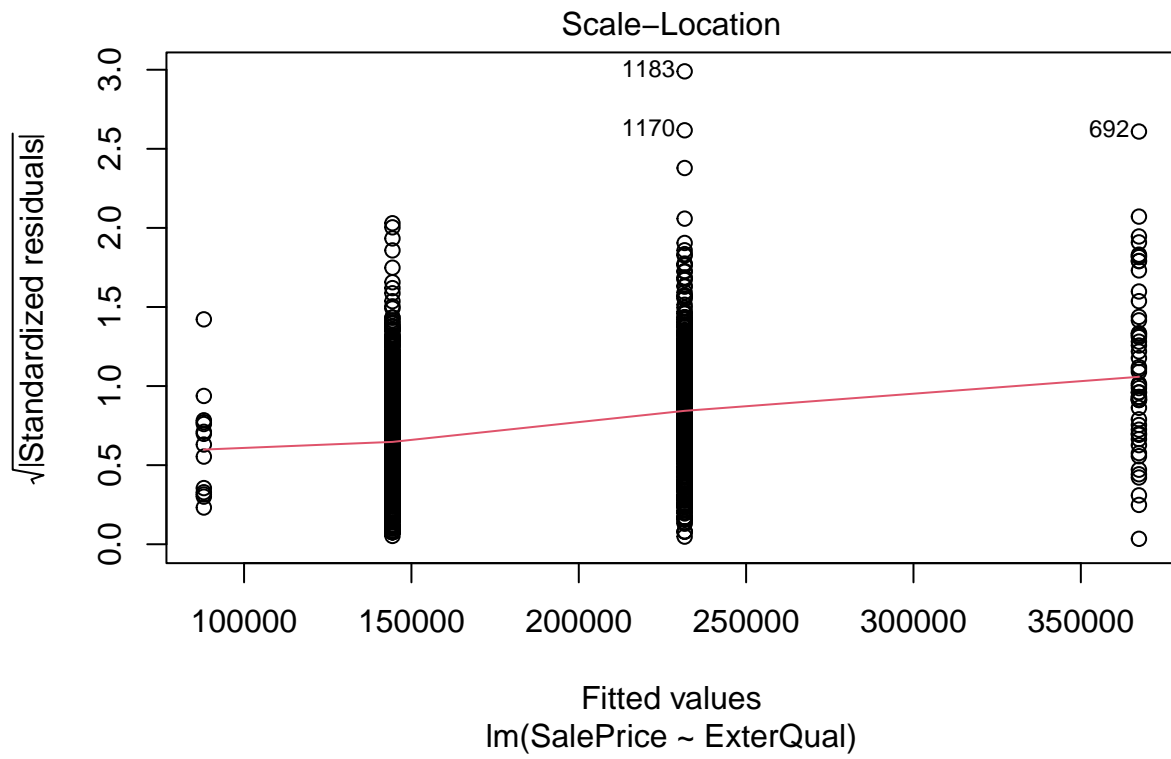


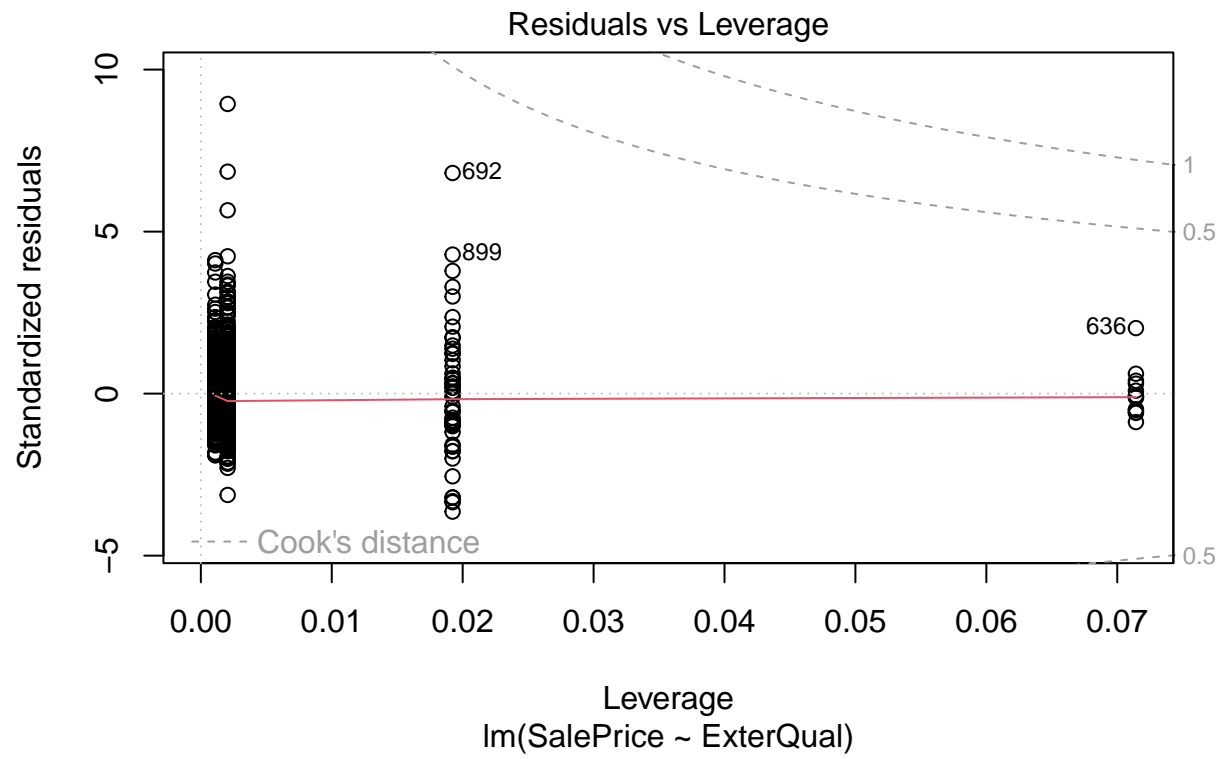


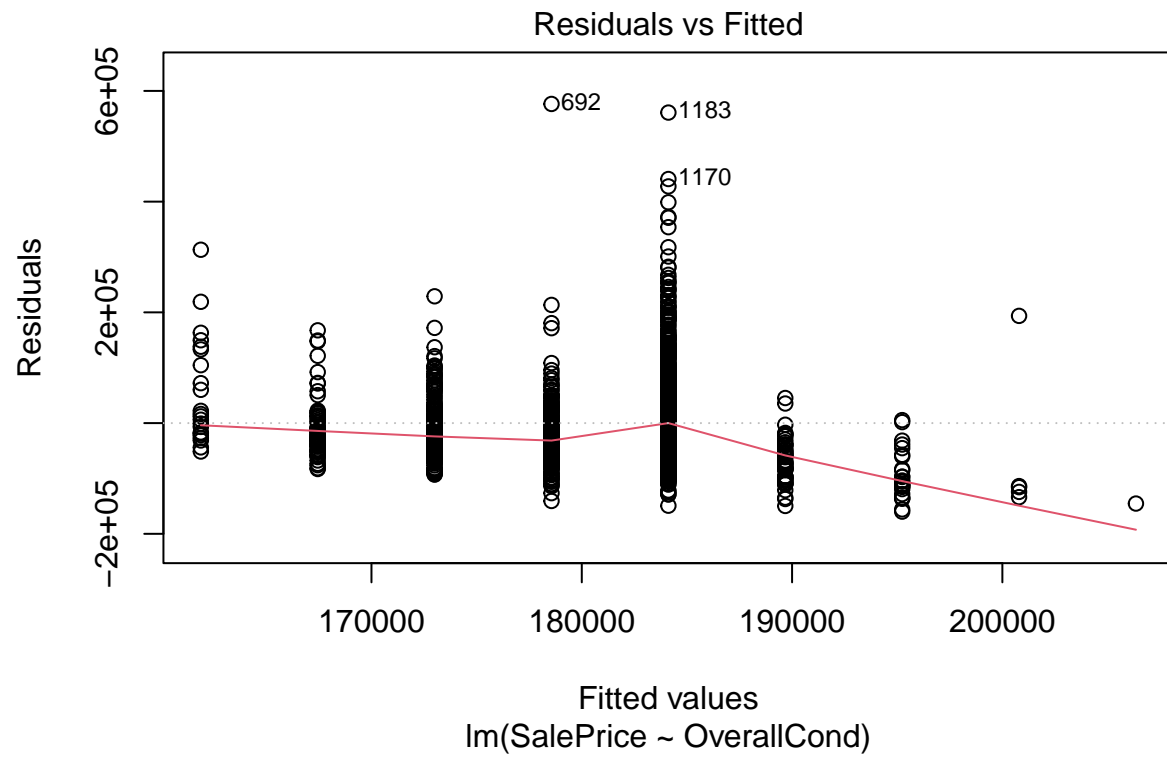


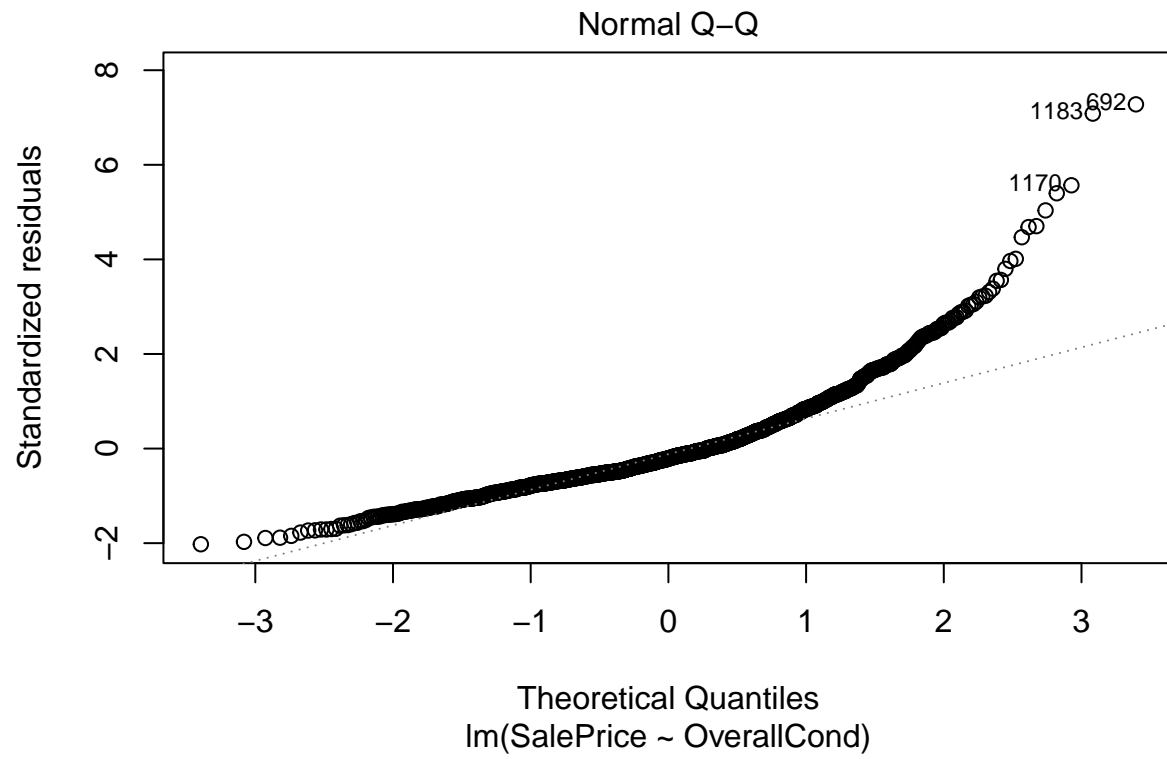


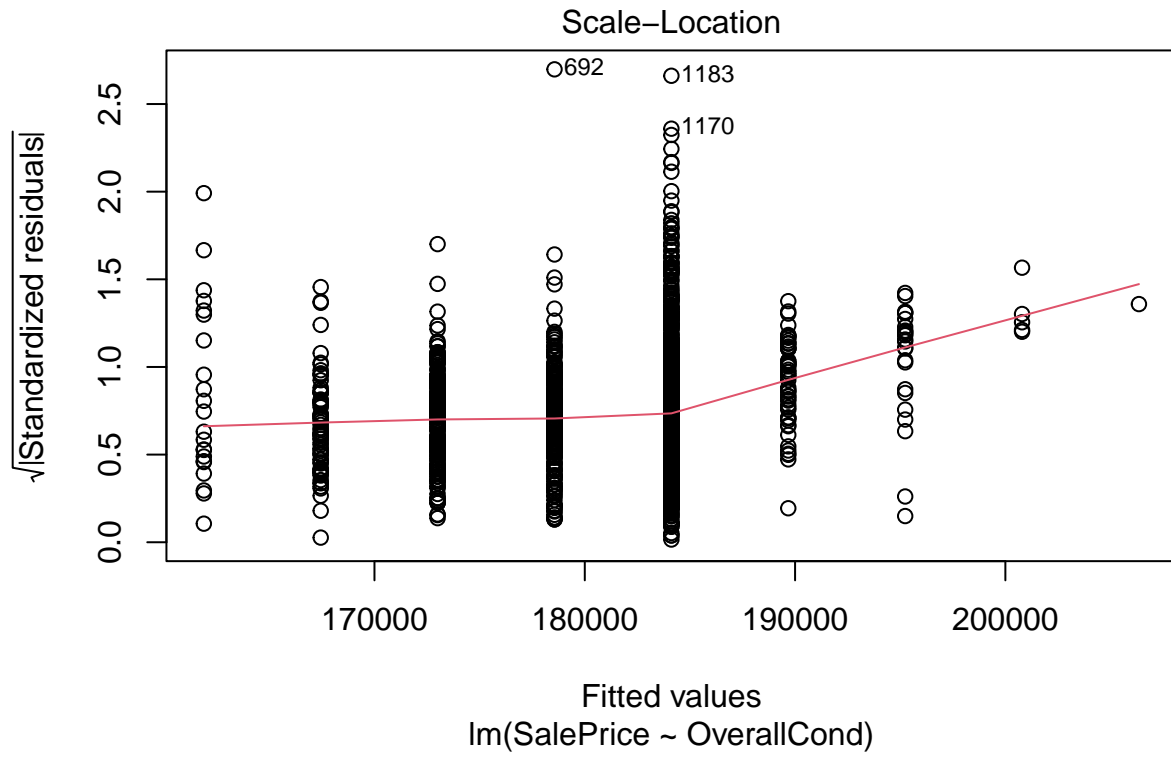


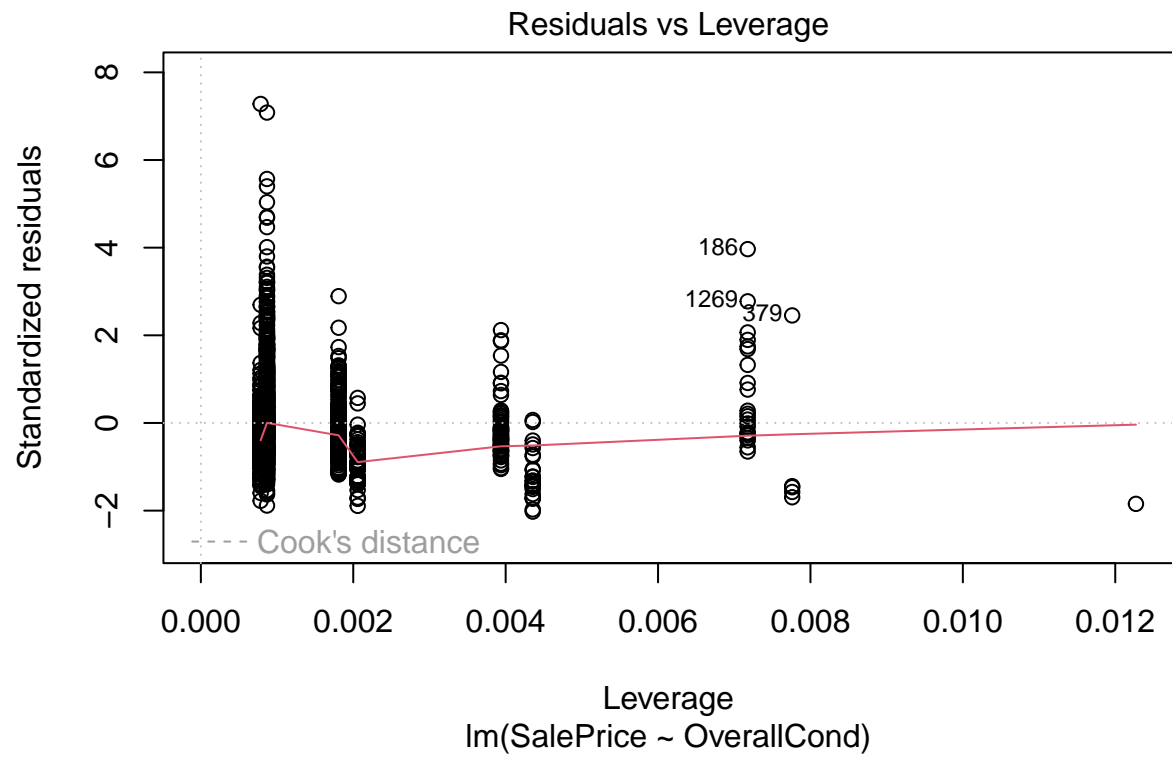


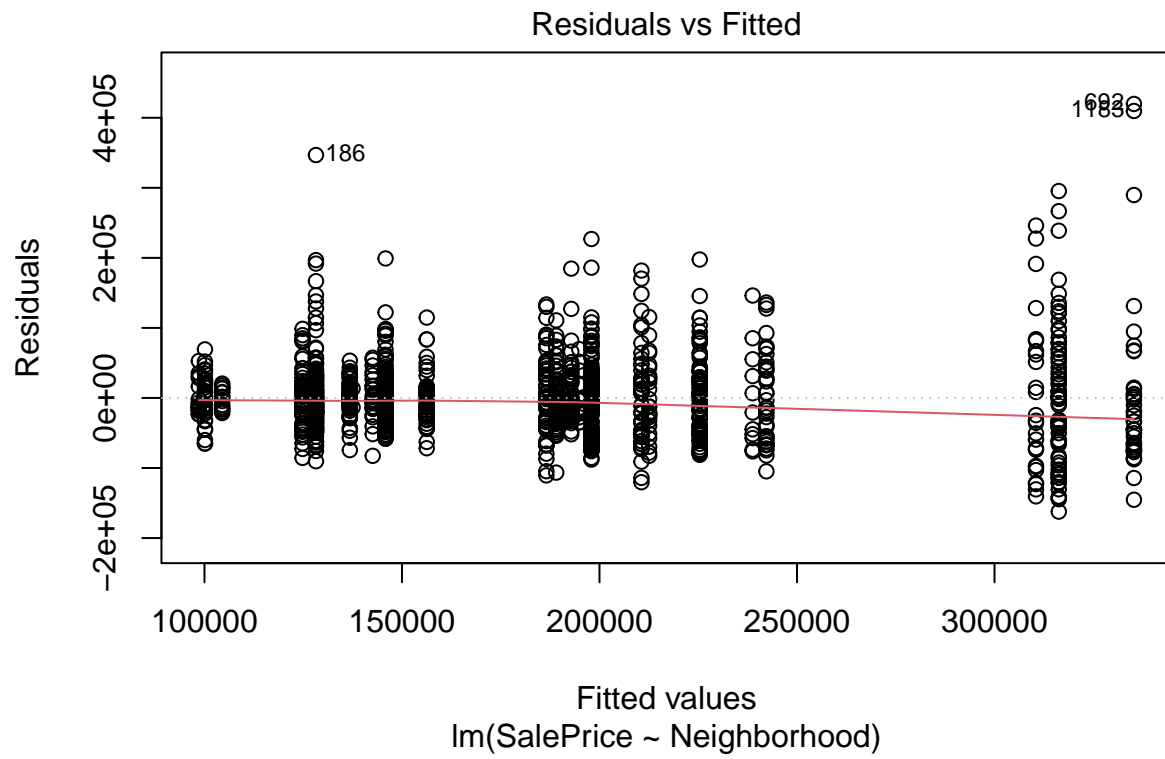


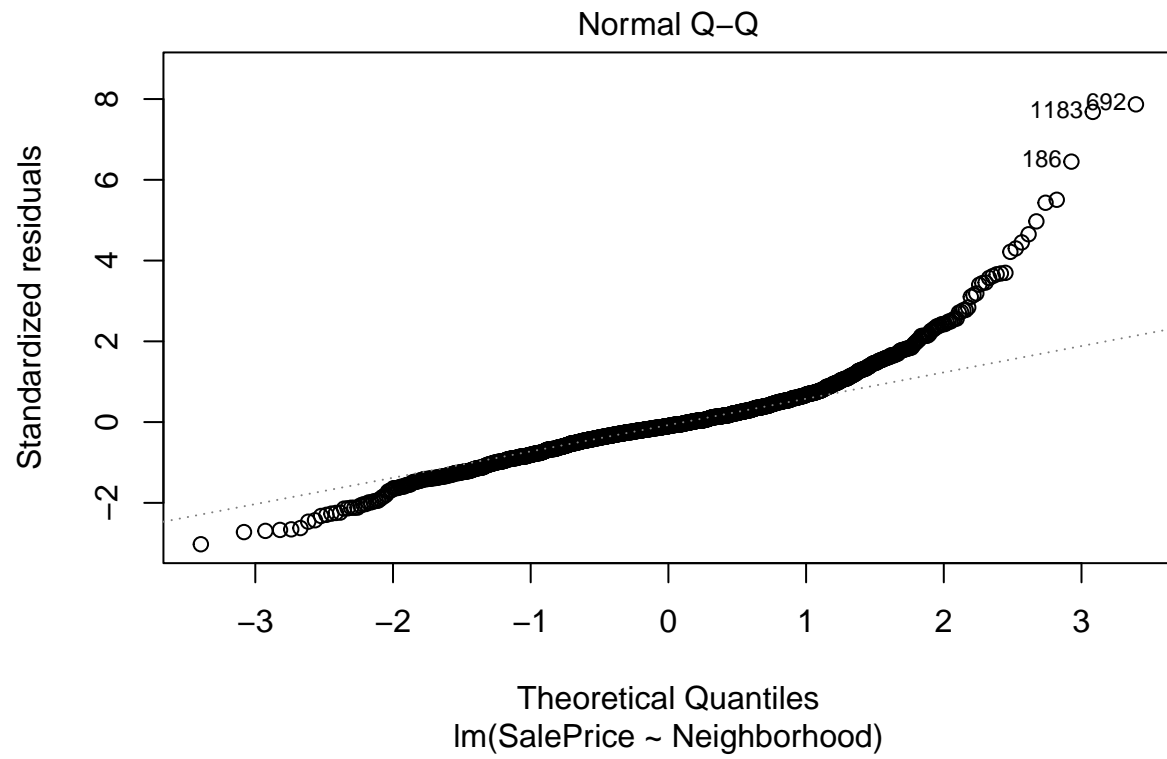


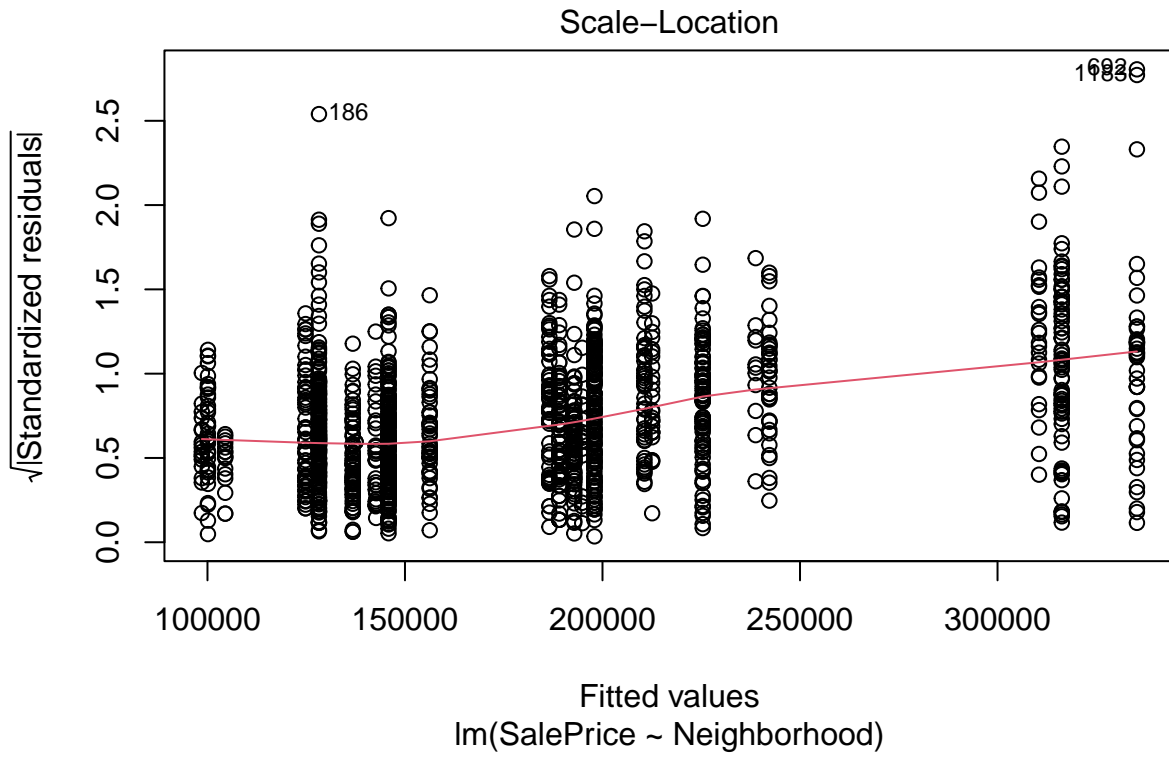


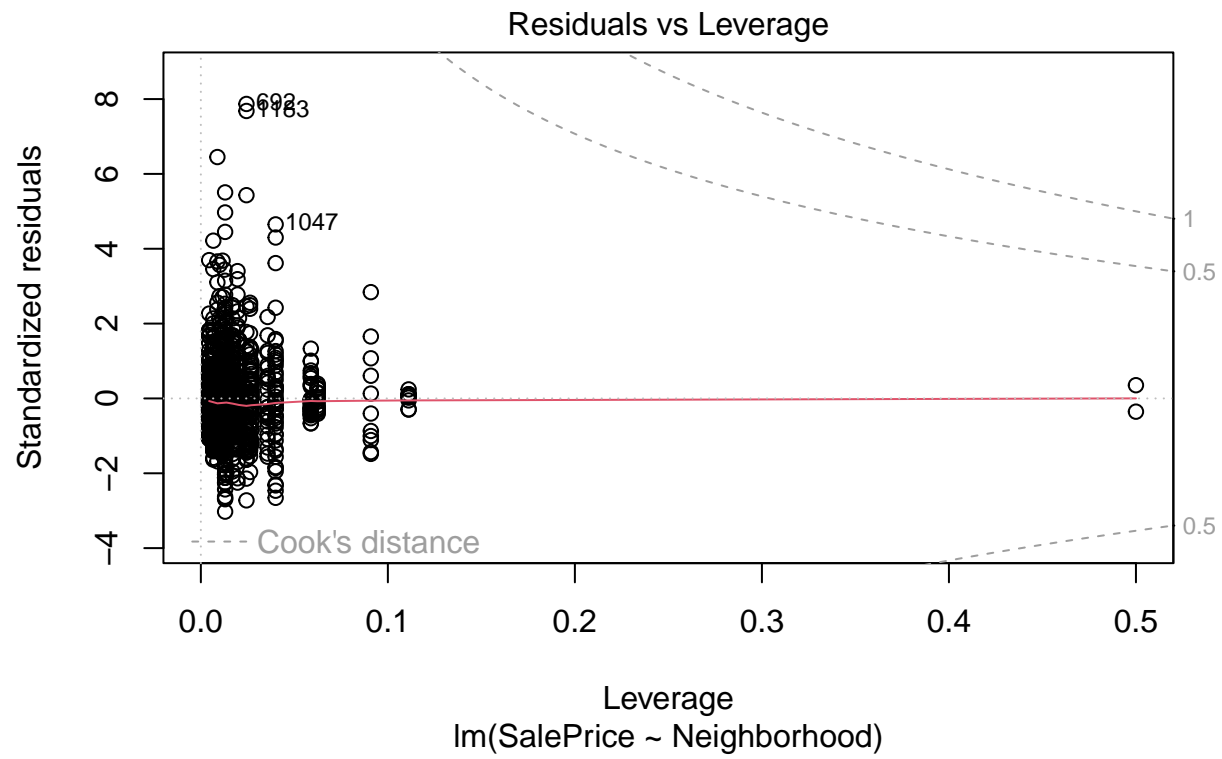


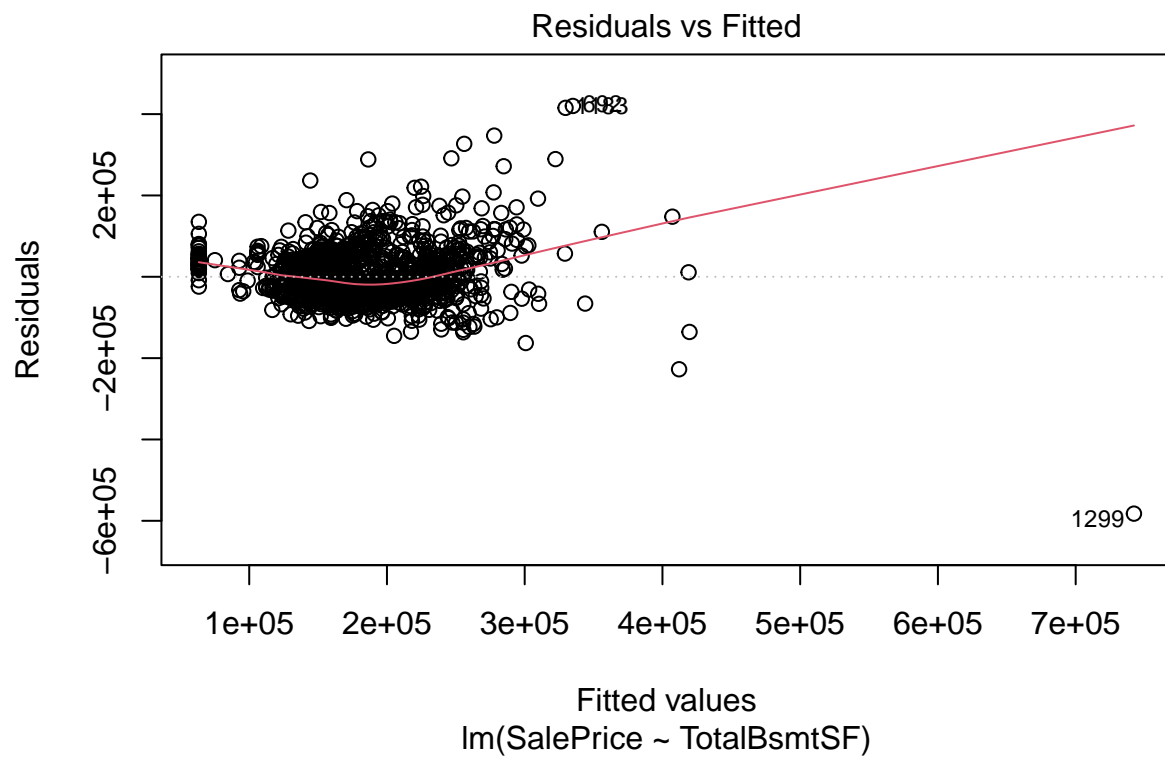


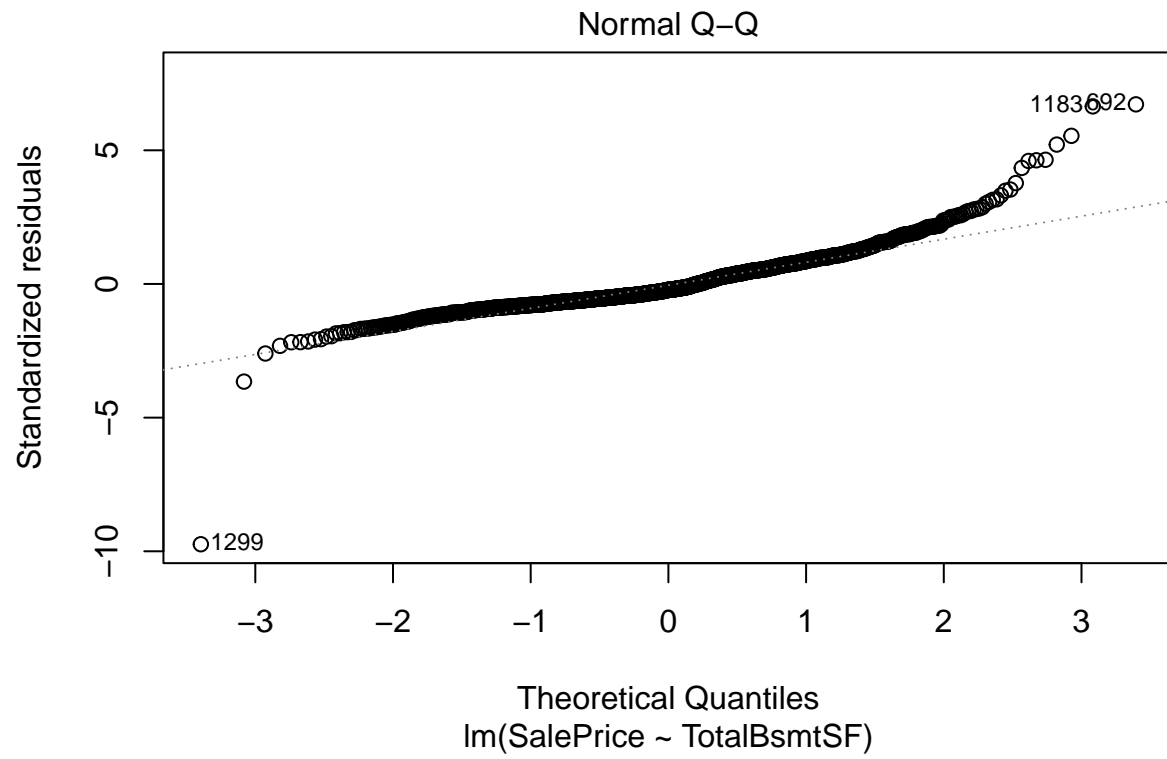


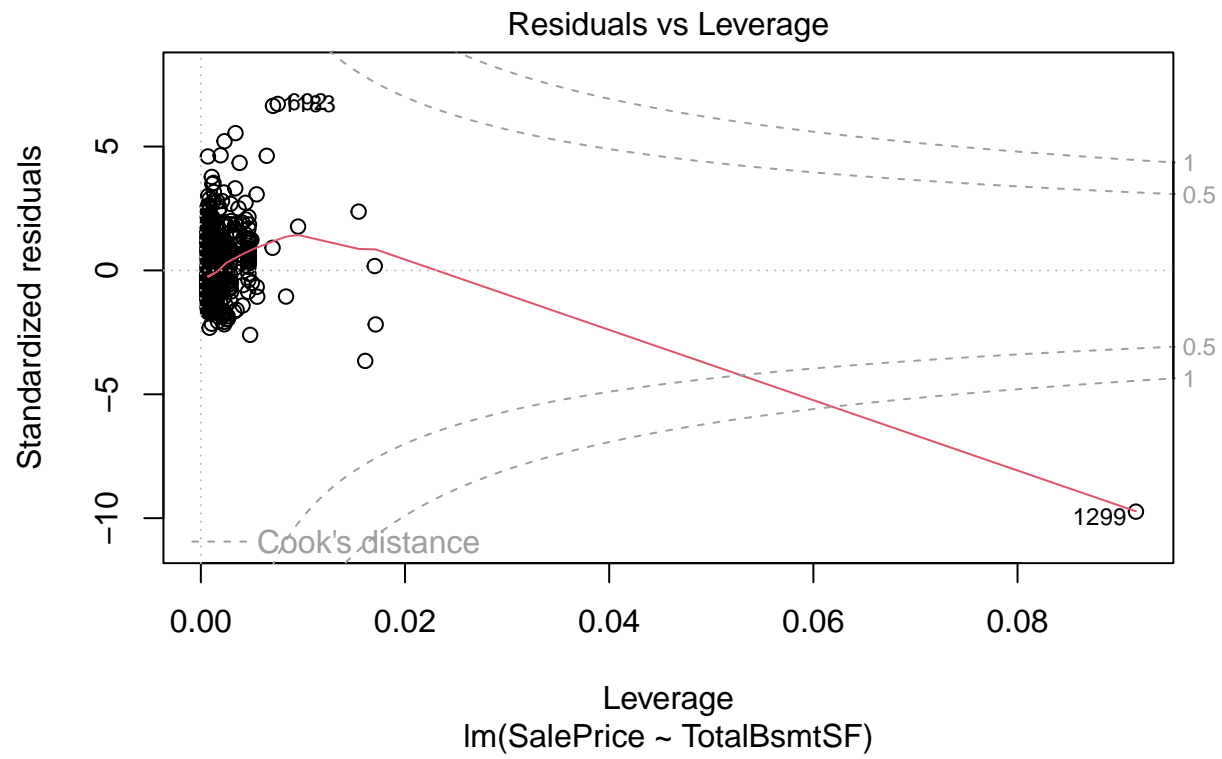












Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.