

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(log(SalePrice) ~ LotArea,dados)
anova(modeloLotArea)
```

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## LotArea      1  15.415  15.4146   103.38 < 2.2e-16 ***
## Residuals 1458  217.386    0.1491
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

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

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## ExterQual     3  107.35   35.783   415.3 < 2.2e-16 ***
## Residuals 1456  125.45    0.086
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

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

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## ExterCond   4  10.595  2.64886   17.345 6.54e-14 ***
## Residuals 1455  222.205  0.15272
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

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

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## OverallCond  1   0.316  0.31643   1.9845 0.1591
## Residuals  1458  232.484  0.15945
```

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

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## Neighborhood  24 132.884  5.5369   79.52 < 2.2e-16 ***
## Residuals  1435  99.916  0.0696
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

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

```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value    Pr(>F)
## TotalBsmtSF   1  87.232  87.232  873.71 < 2.2e-16 ***
## Residuals  1458 145.568   0.100
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

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

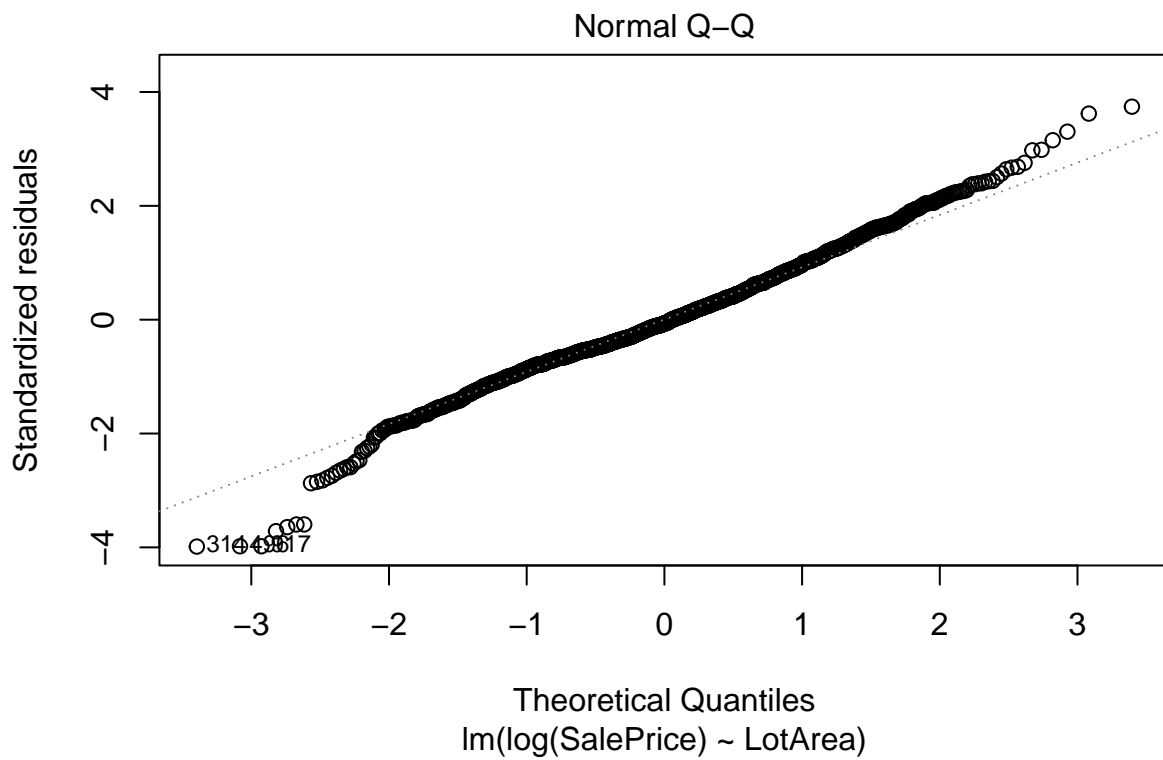
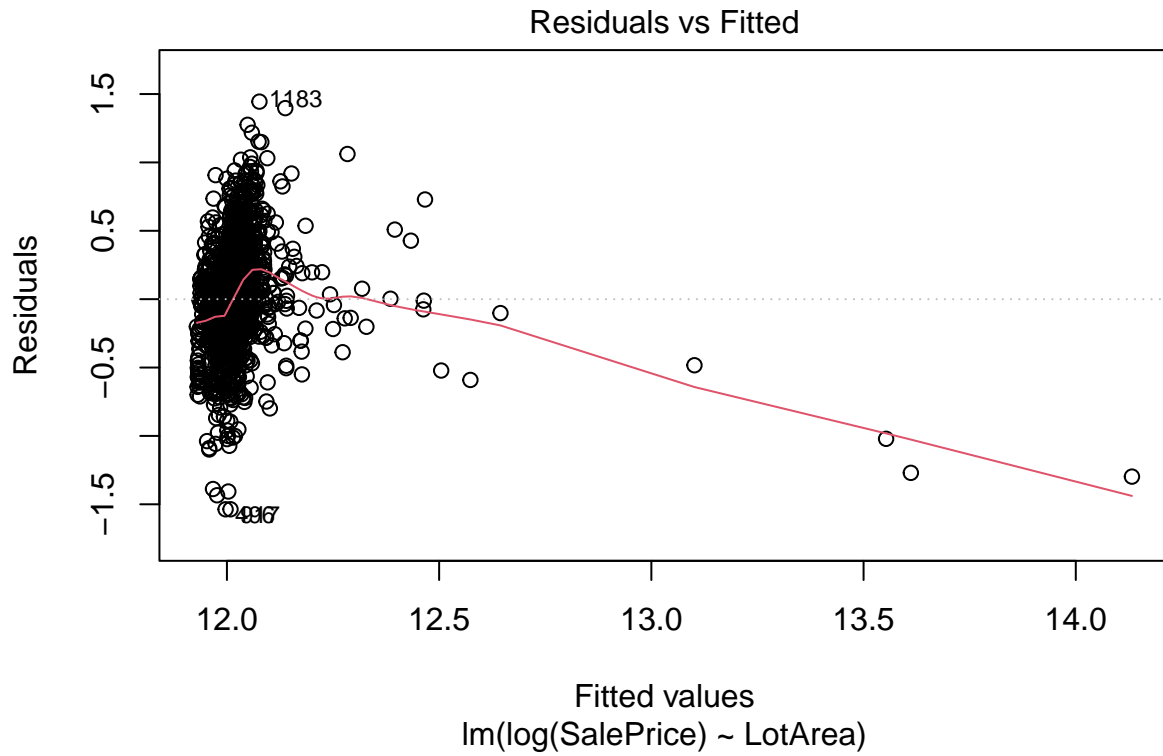
```
## Analysis of Variance Table
```

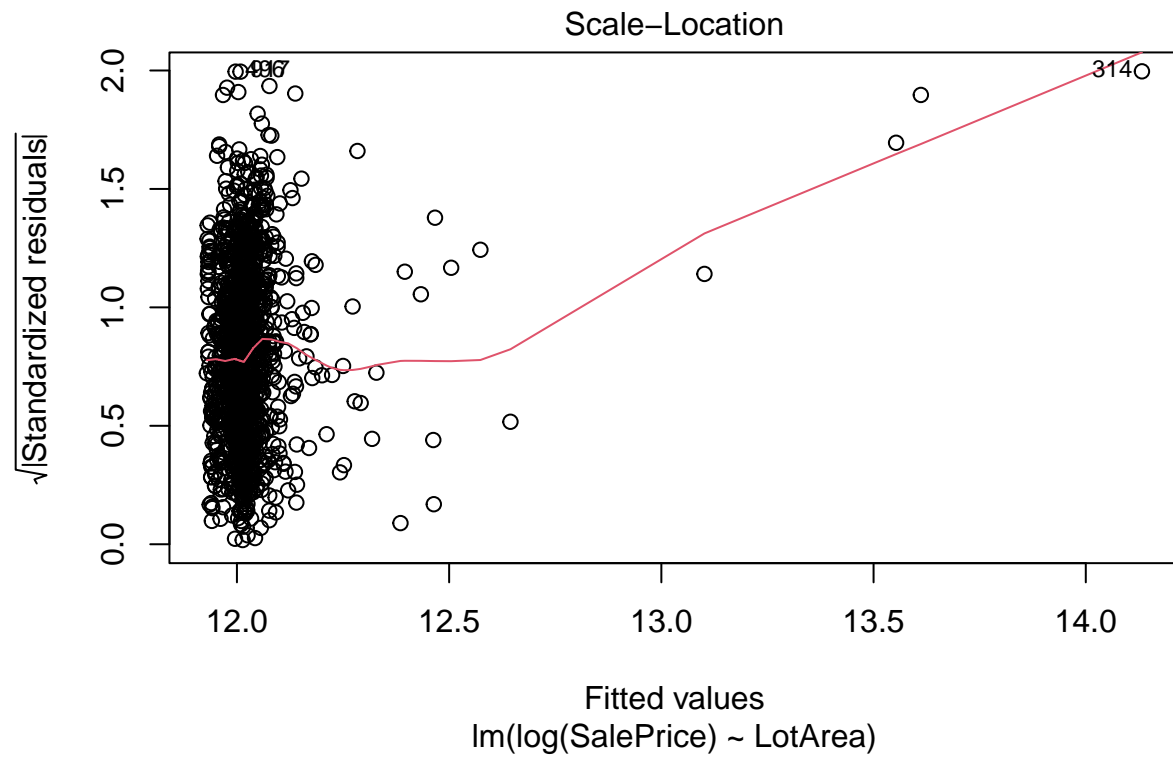
```
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value Pr(>F)
## MiscVal      1  0.093 0.093314  0.5846 0.4446
## Residuals 1458 232.707 0.159607
```

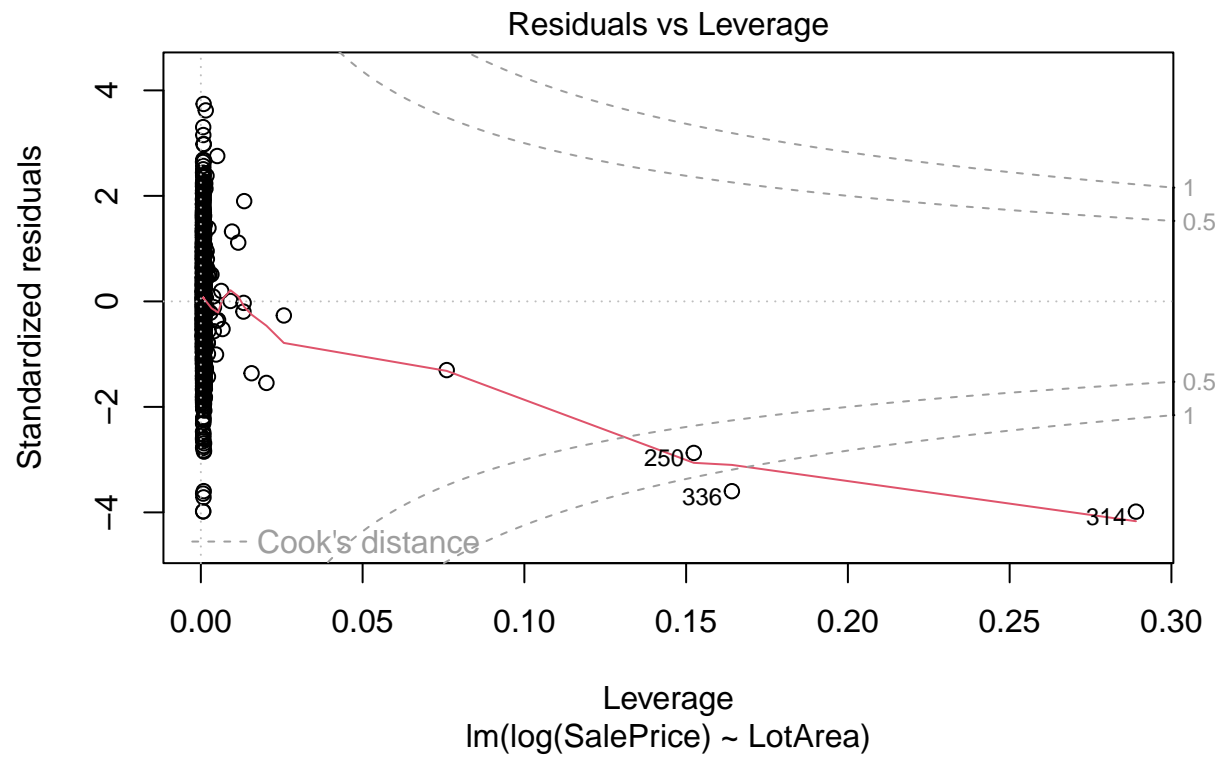
```
modeloMiscFeature <- lm(log(SalePrice) ~ MiscFeature,dados)
anova(modeloMiscFeature)
```

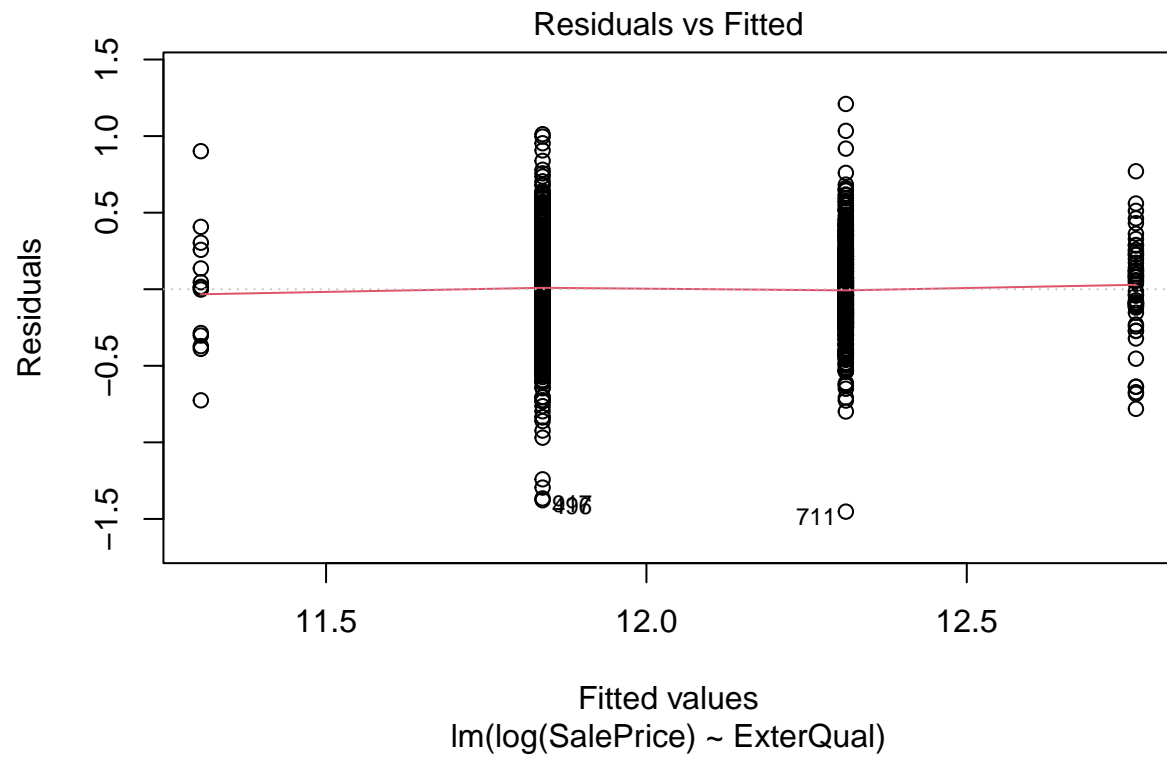
```
## Analysis of Variance Table
##
## Response: log(SalePrice)
##           Df Sum Sq Mean Sq F value Pr(>F)
## MiscFeature  3 0.8981 0.29937  2.384 0.08031 .
## Residuals   50 6.2788 0.12558
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

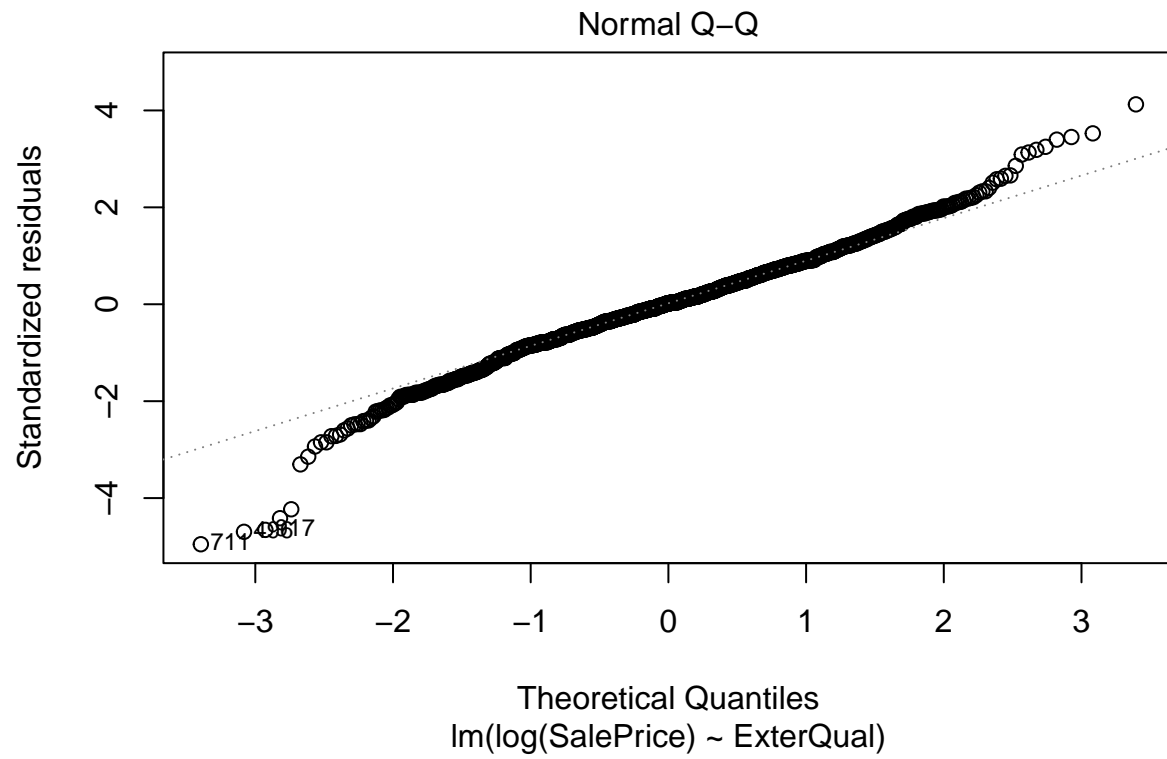
Lm Plots

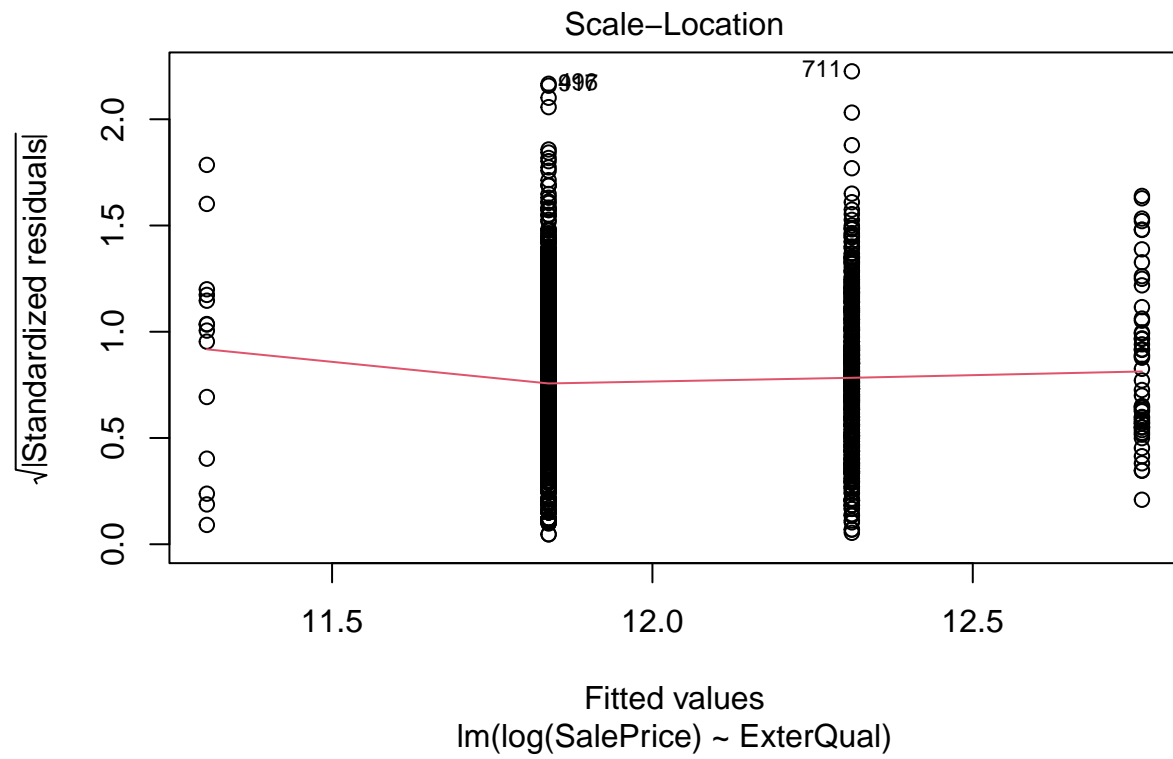


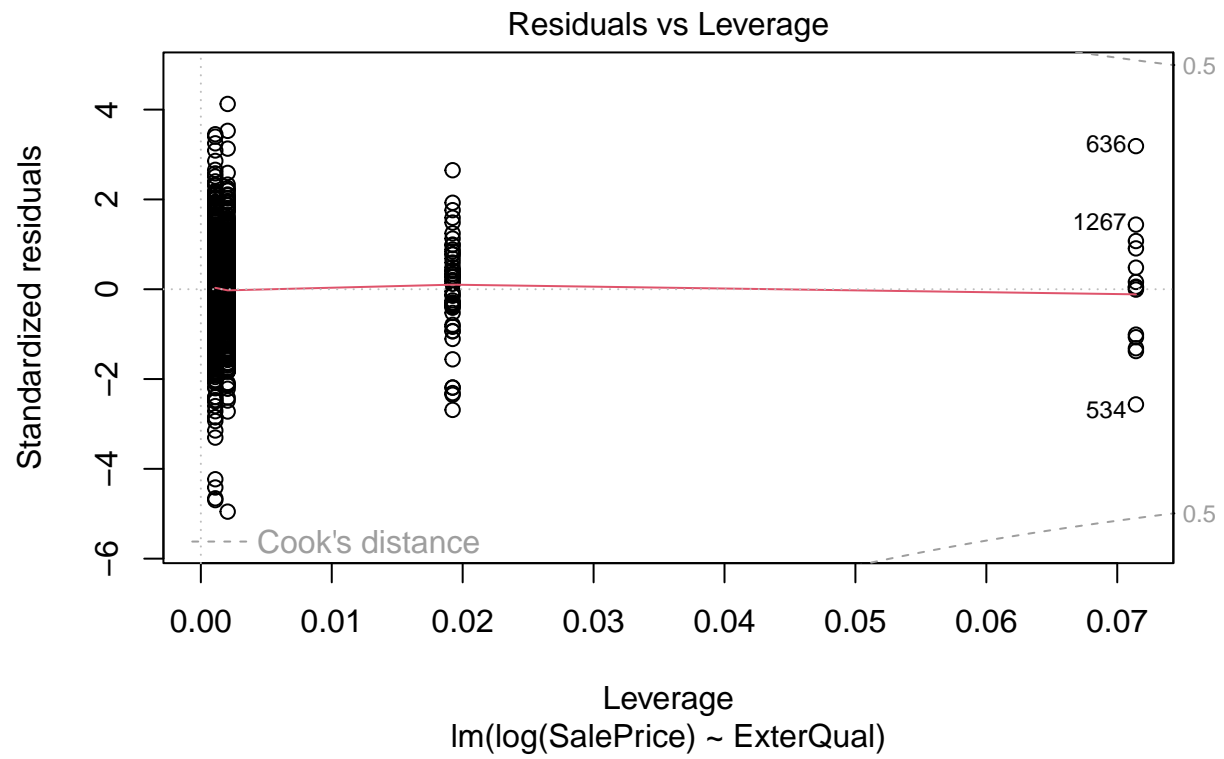


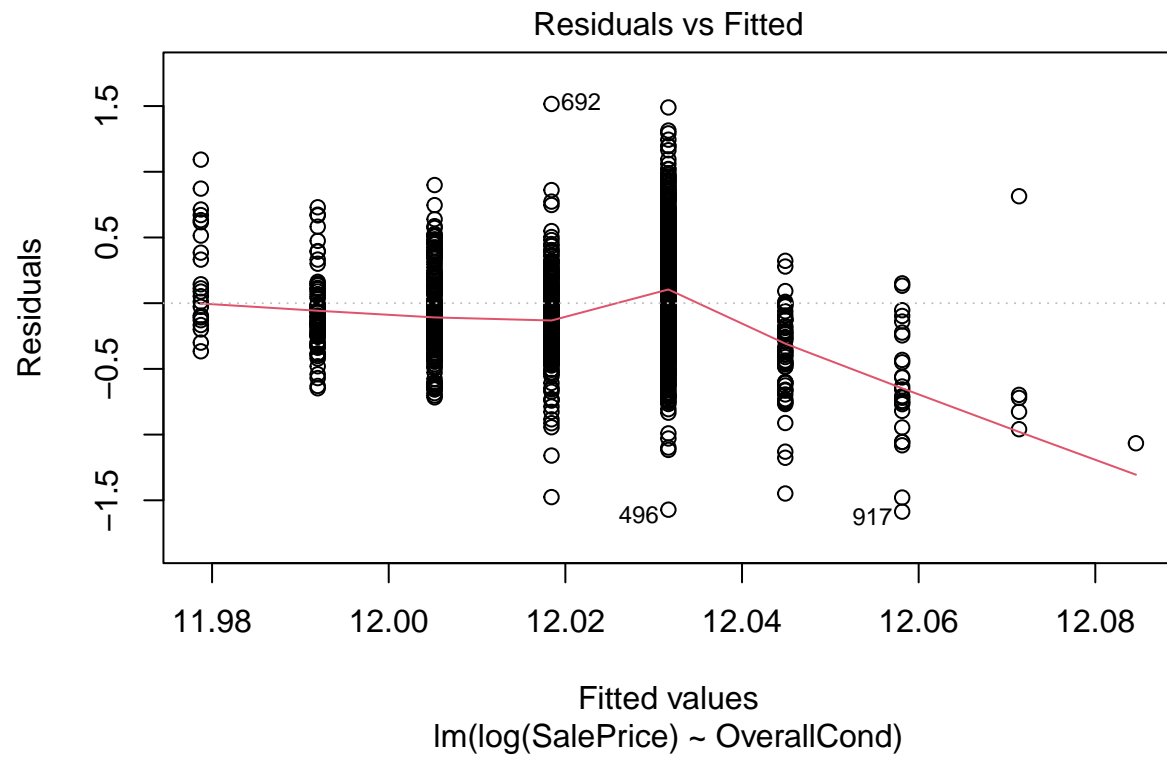


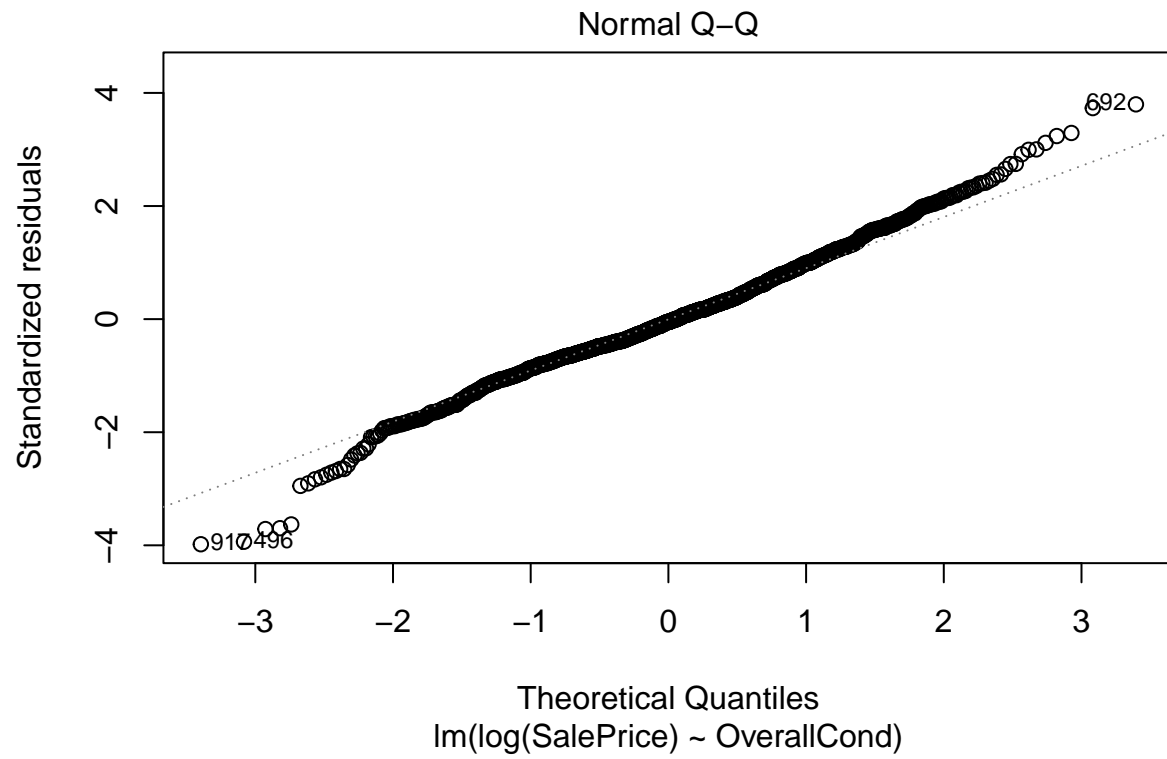


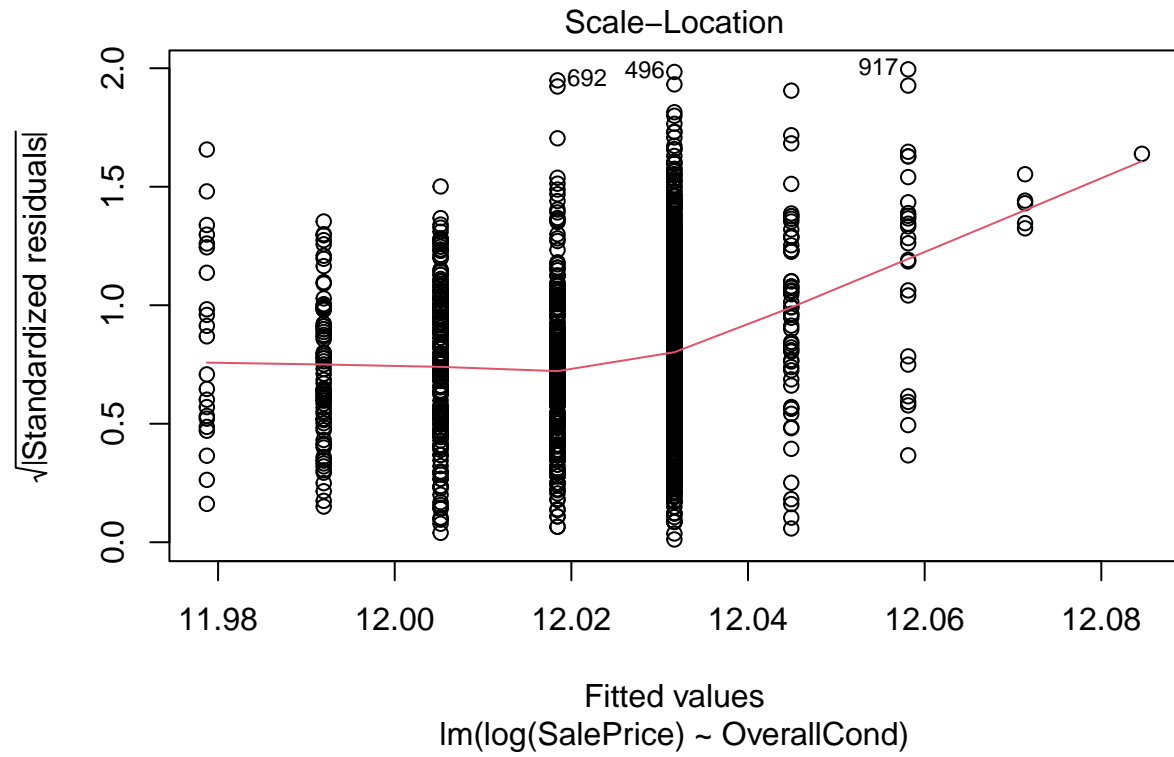


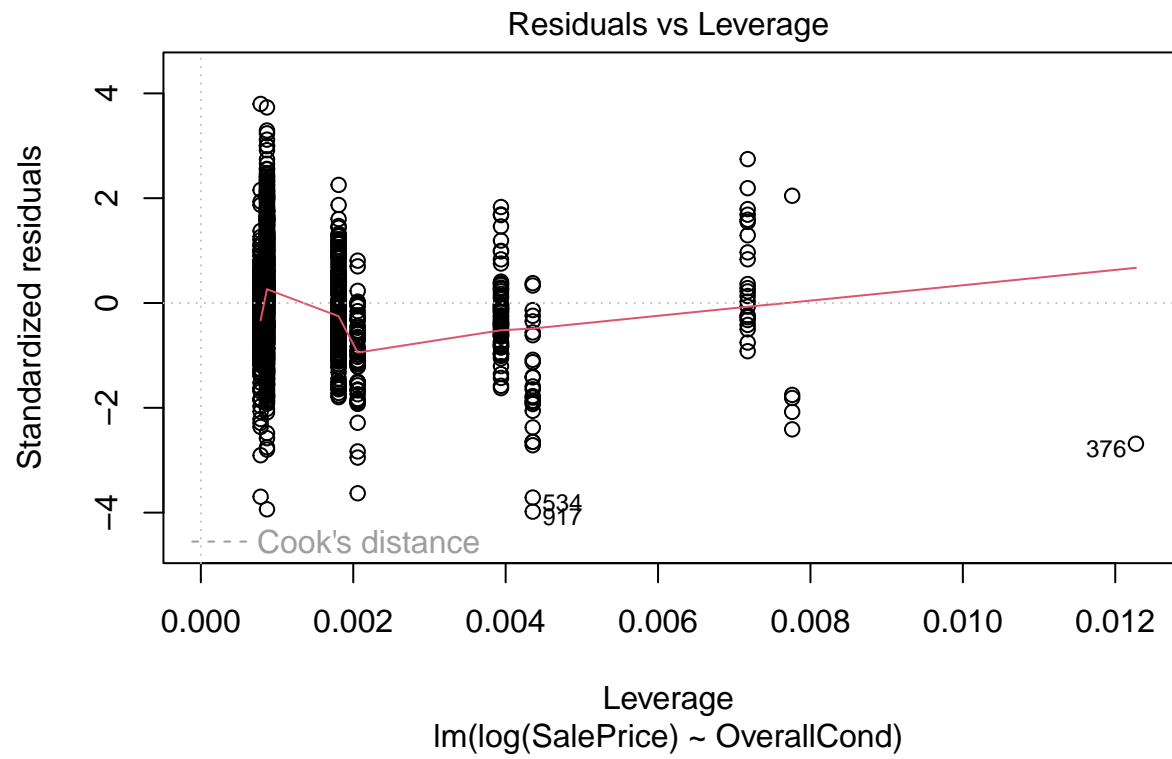


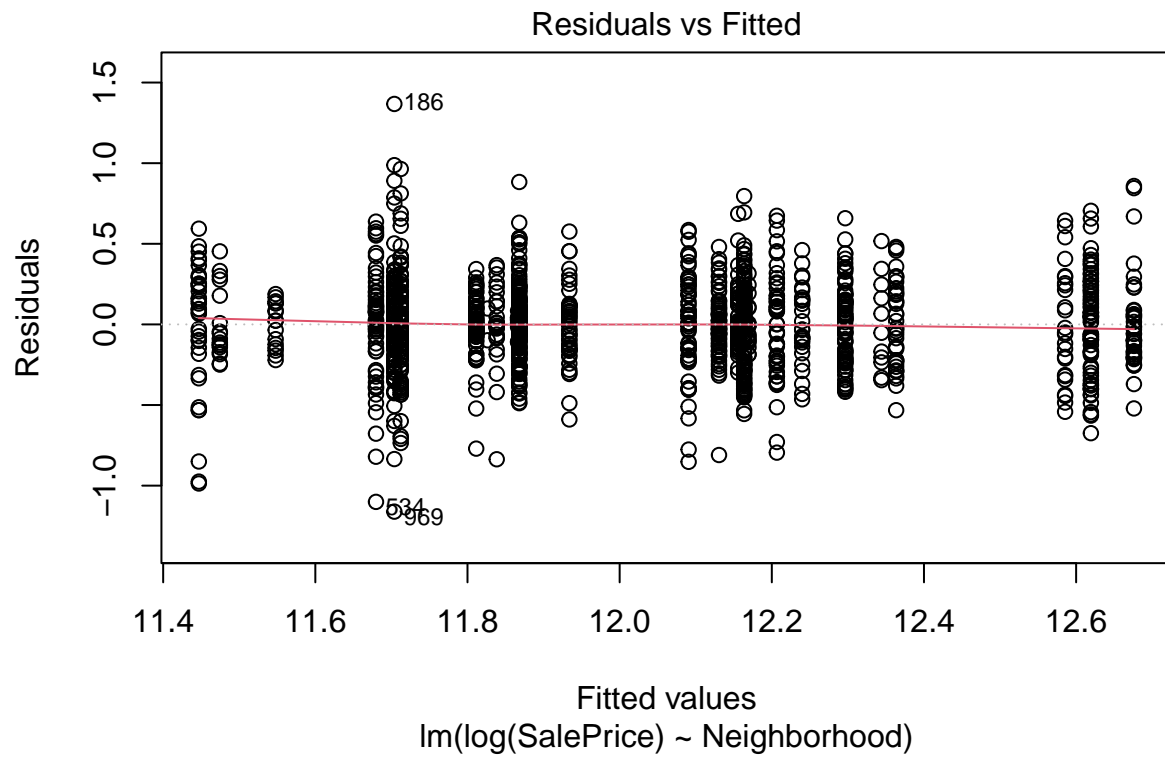


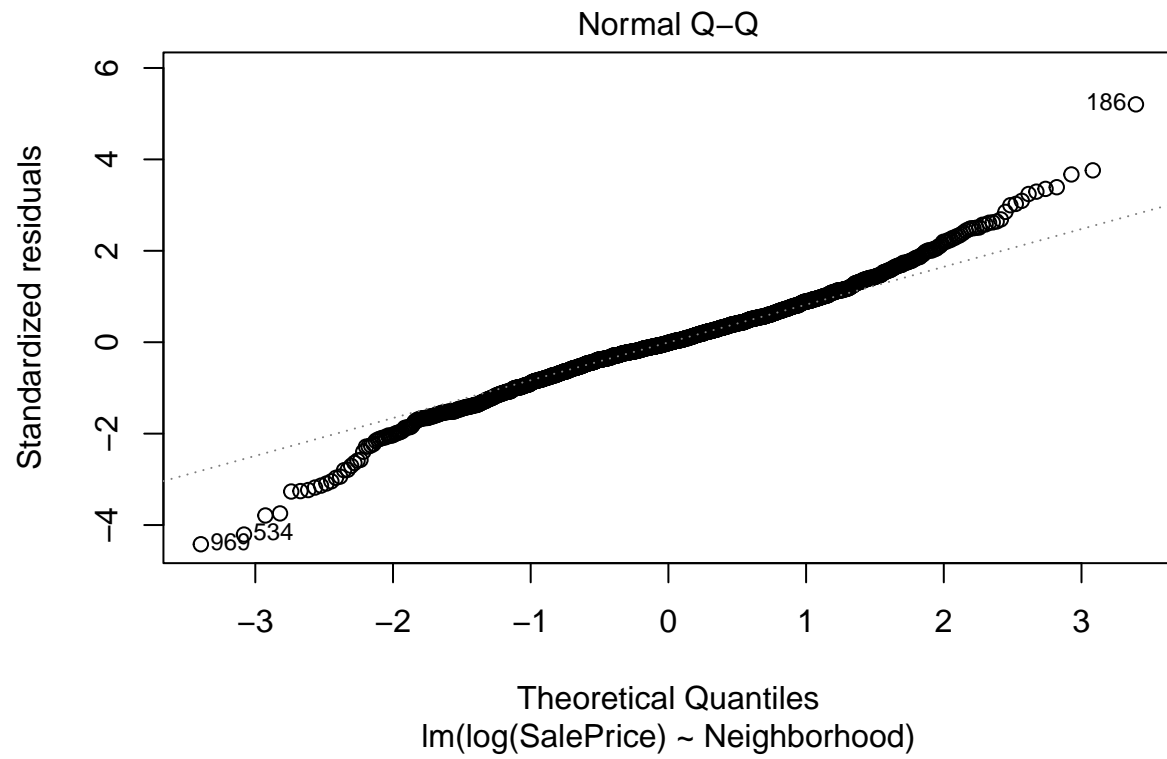


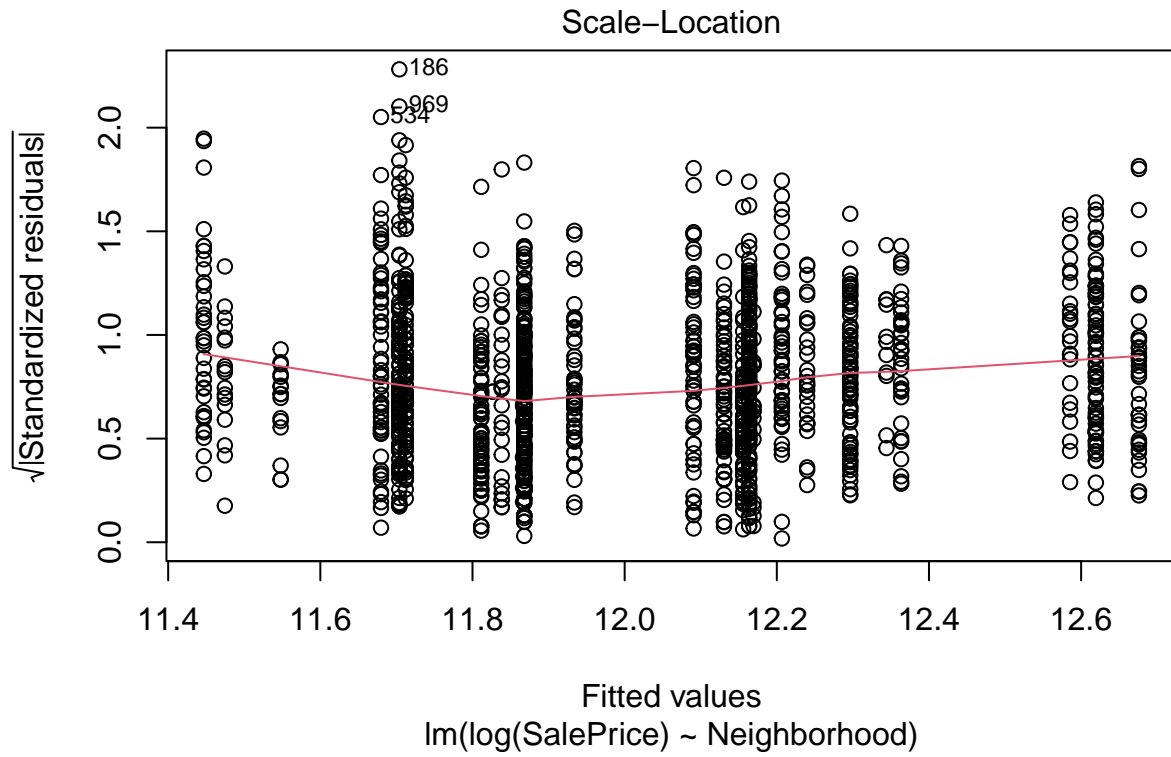


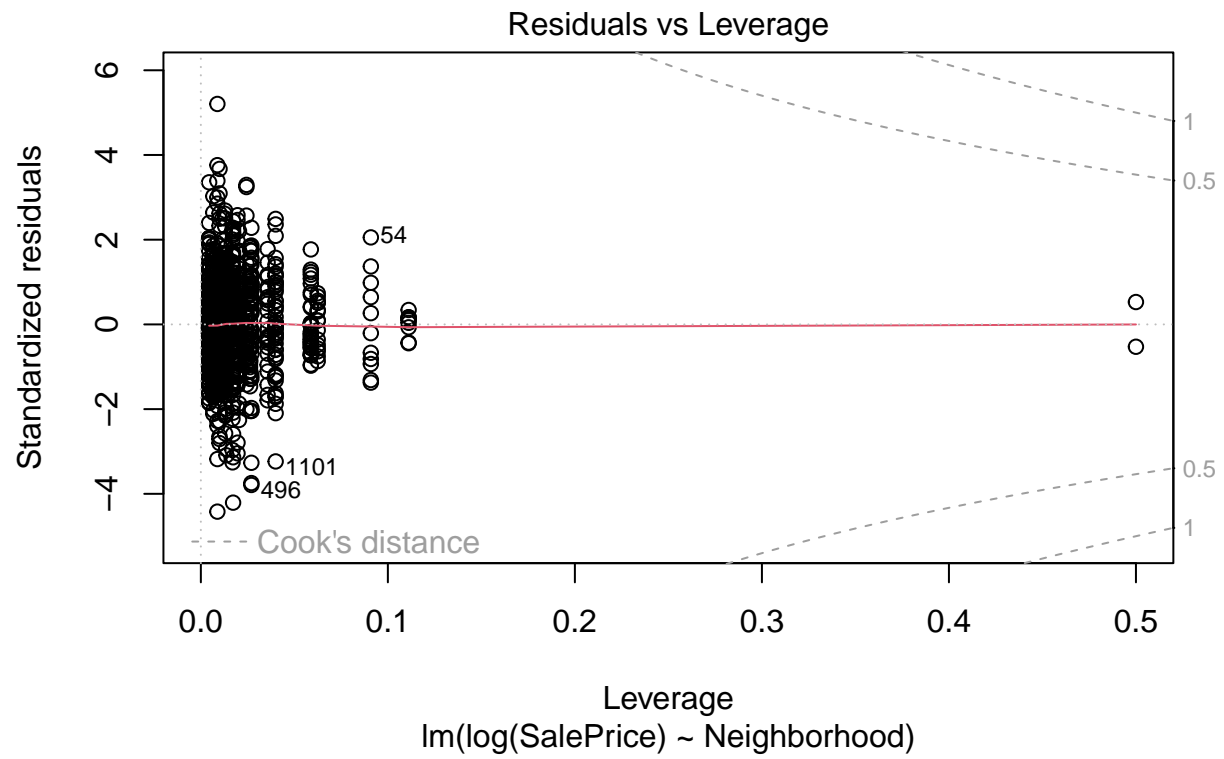


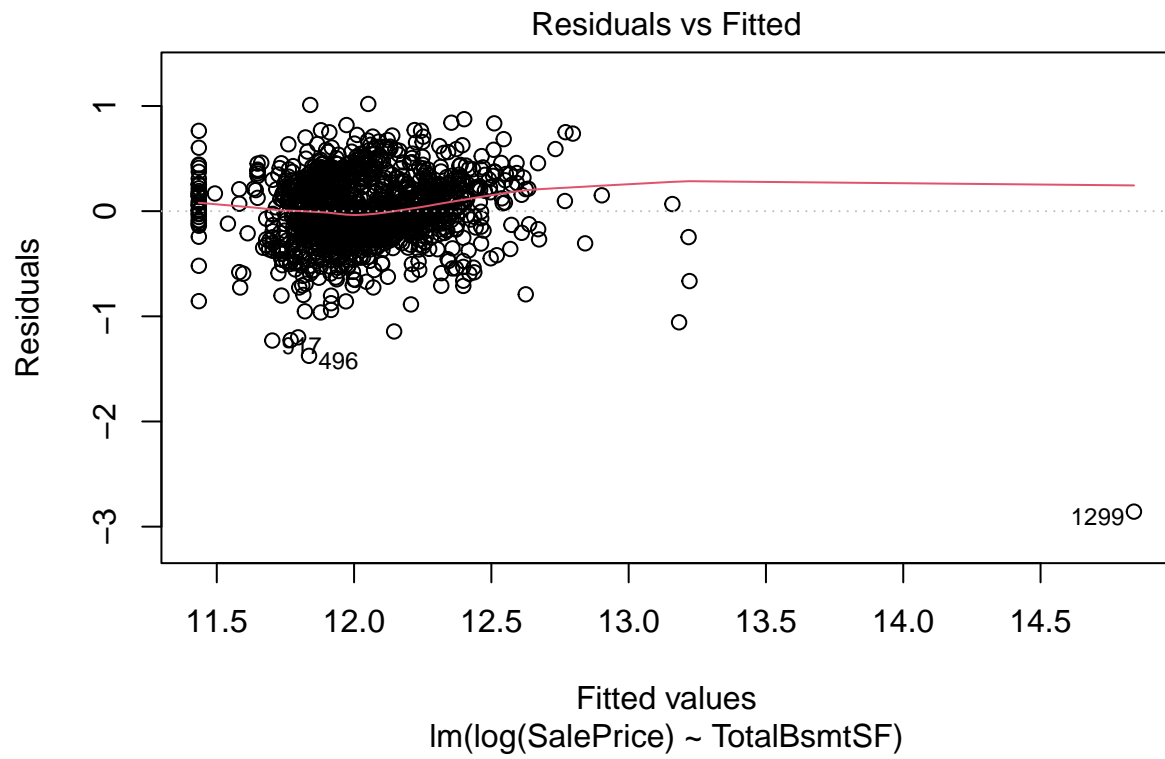


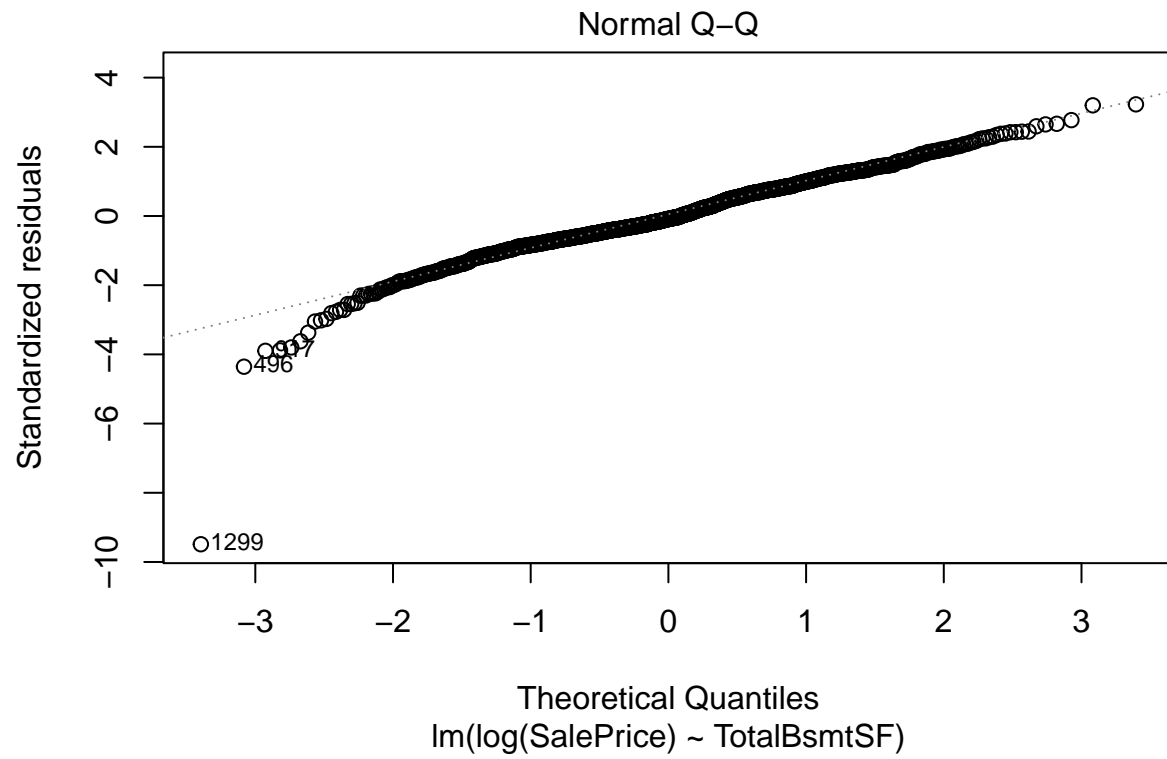


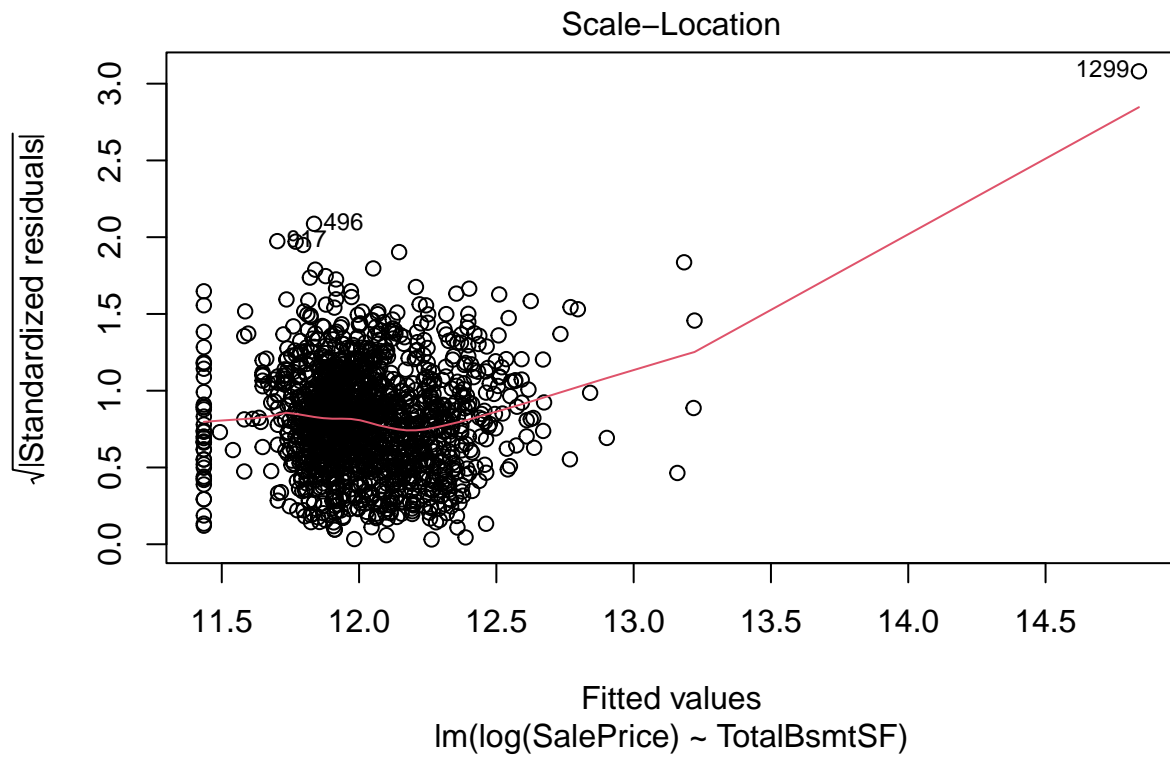


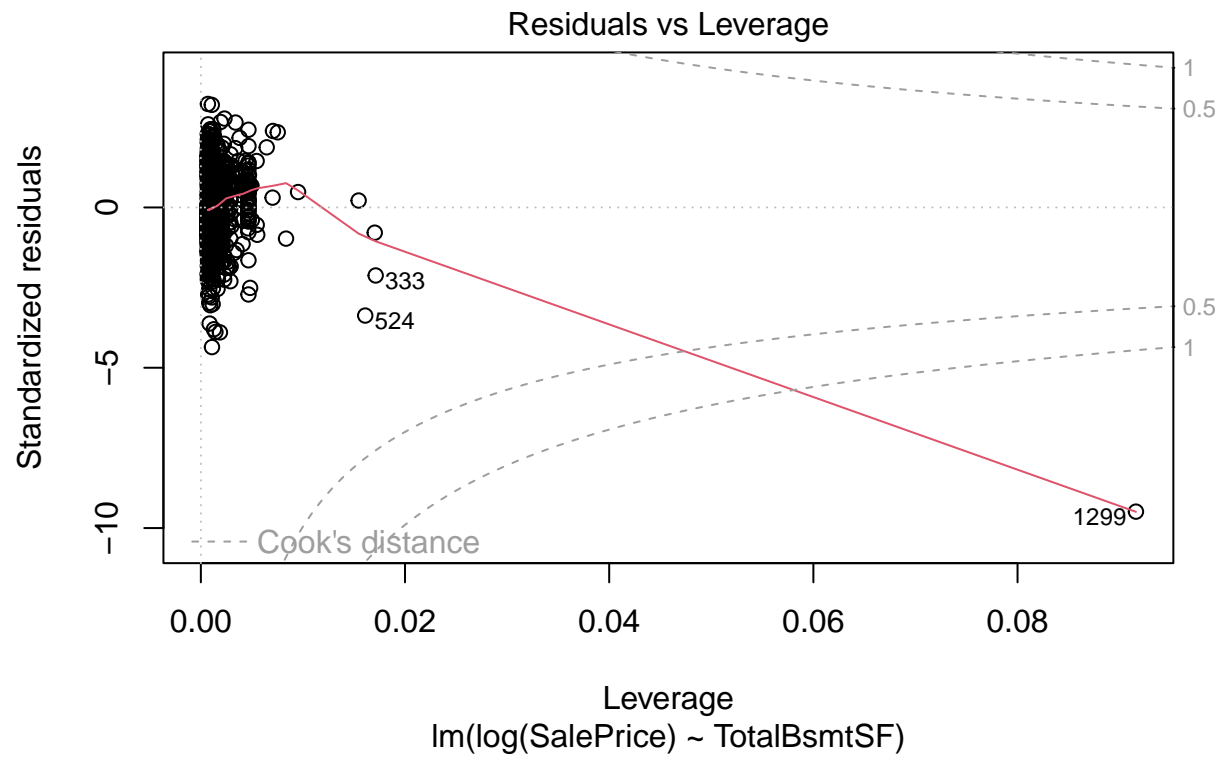












Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.