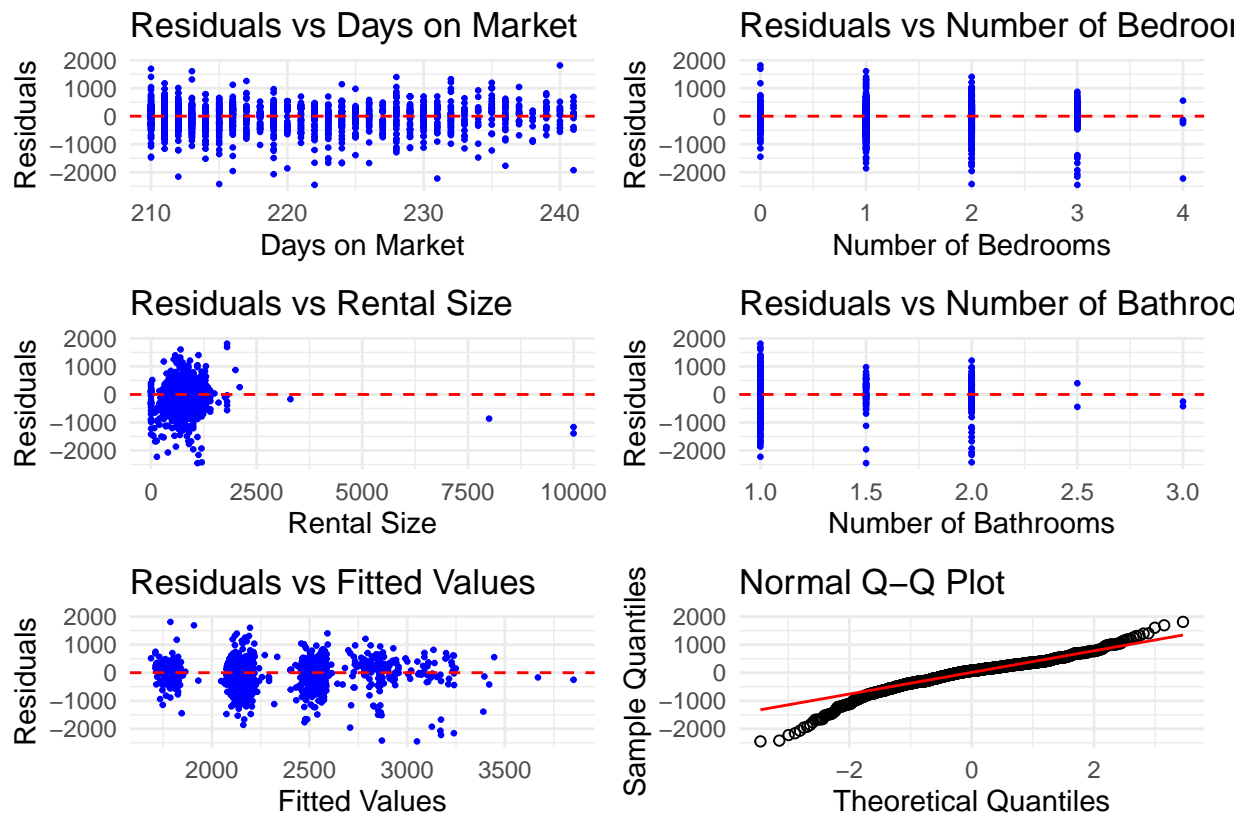


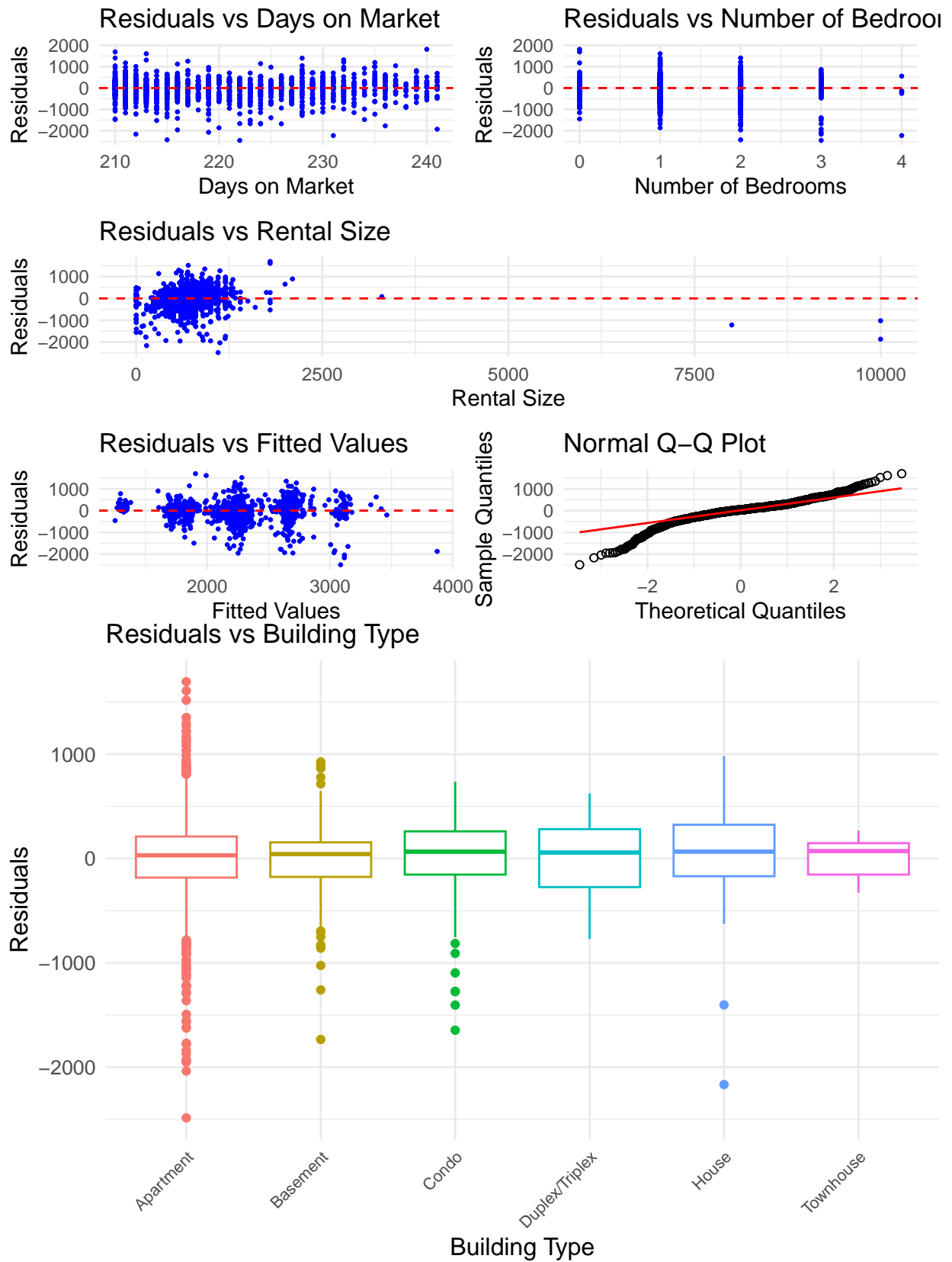
# STA302 Project part 1

Hilary

2024-10-11

```
#write.csv(data_clean, "~/Course Materials/STA302/cleaned_data.csv")
```





1. Residuals vs. Fitted Values In the plot, residuals are plotted against the fitted values . The residuals do not show a clear pattern but cluster slightly, suggesting the linearity assumption is fitted.

2. Histogram of Residuals The histogram shows the distribution of residuals. While the residuals appear close to normal, small deviations affect confidence intervals and p-values. If deviations from normality are significant, we can apply a Box-Cox to help with analysis.
3. Normal Q-Q Plot The residuals mostly follow the reference line, but there are slight deviations at the tails. This suggests that the residuals are approximately normal, but the deviations at the tails might indicate some outliers.

