

# Lab 3

*Marquise Baggione*

*Jacob Schmidt*

*Ryan Sears*

*Wenquan Lai*

We arrived at this model by originally plotting our RMSE's found by using Forward Selection. We aimed to pick the max amount of regressors that gave us the minimized the RMSE. When we applied this to our prediction, we got an estimated mean Sale Price that was very close to the actual Sale Price mean. We then noticed the Test RMSE was much larger than the Train RMSE. This was a result of overfitting our model. We then adjusted the model to make sure the amount of regressors chosen did not lead to overfitting. The end result was a very similar Sales Price mean, the difference between our estimated Sale Price Mean and Actual Sale Price Mean was \$3,162.42

Predicted Mean Sale Price	Actual Mean Sale Price	Train RMSE	Test RMSE
182154.4	185506.2	65356.42	52407.08