

# 04-analysis.Rmd

## Analysis

Now that we have a better understanding of each of these regression methods, lets look at the data in order to see how each regression performed:

Mean Squared Error	
MSE of Least Squares	0.15
MSE of Ridge Regression	0.18
MSE of PLS Regression	0.14

Lets take a look at how the estimated regression coefficients differ for each regression:

Coefficient Names		Coefficients for PLS Regression	Coefficients for Least Squares	Coefficients for Ridge Regression
1	Income	-0.58	-0.55	-0.41
2	Limit	0.66	0.87	0.58
3	Rating	0.66	0.43	0.58
4	Cards	0.04	0.04	0.04
5	Age	-0.03	-0.01	-0.04
6	Education	0.01	0.01	0.01
7	Gender.Male	-0.00	-0.04	0.01
8	Gender.Female	0.00		0.02
9	Married.Yes	-0.07	-0.03	-0.05
10	Ethnicity.Asian	0.04	0.08	0.04
11	Ethnicity.Caucasian	-0.01	0.05	0.01