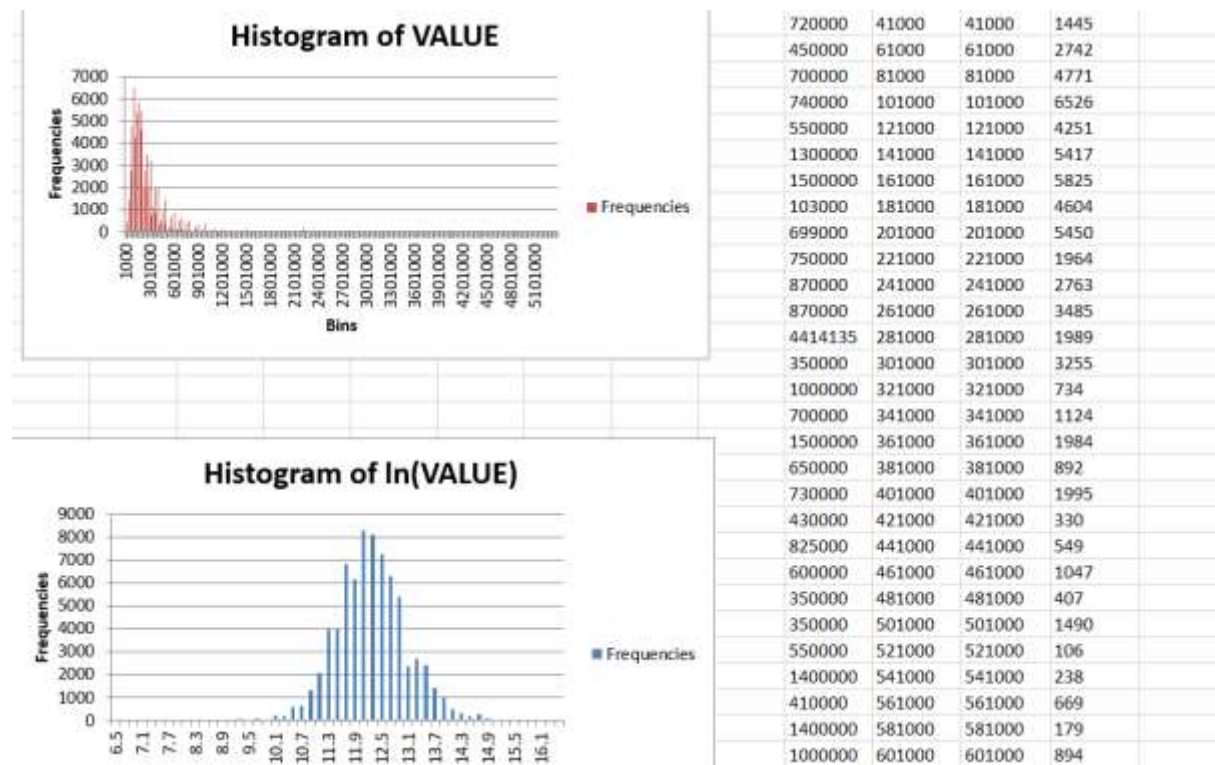
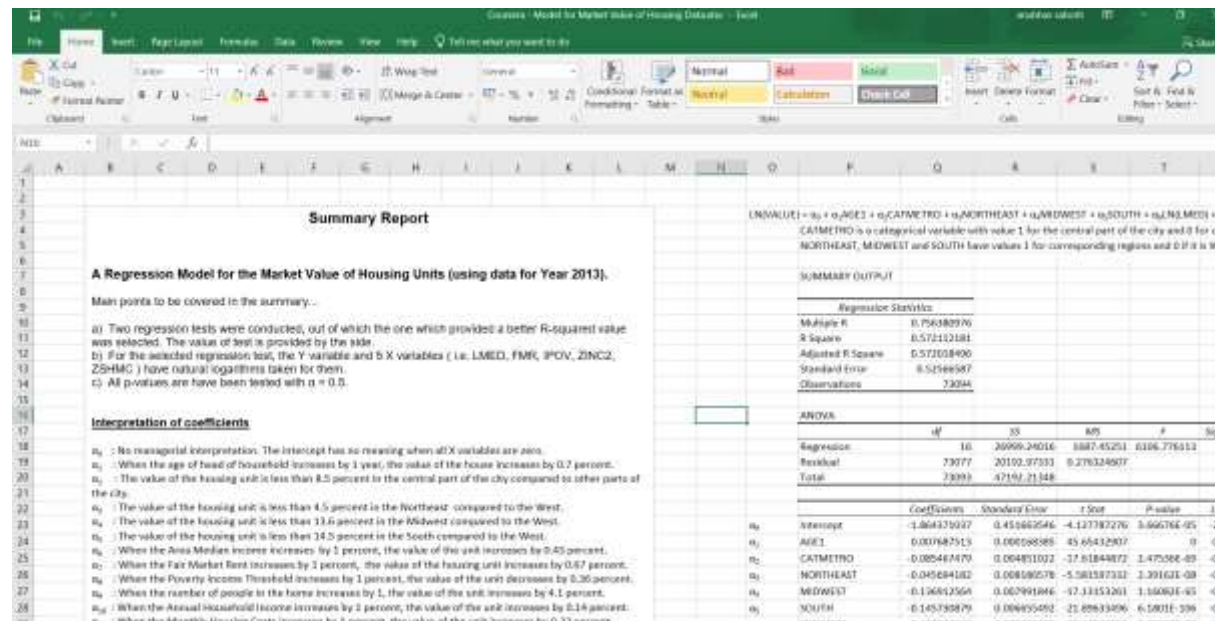


Self Project – Audited the course on Coursera

Some Snapshots



Coursera - Prediction of Market Value of Housing Units

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Cut Copy Paste Format Painter Clipboard

Calibri 11 Font

Wrap Text Merge & Center Alignment

General Number Conditional Formatting

A1

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2	Summary Report											
3	(Please include a summary of your key findings here)											
4												
5												
6												
7	A Regression Model to predict the Market Value of Housing Units in 2013											
8												
9	1. The same model, as was used in Assignment 3, is being used here, with an additional variable - log											
10	transformation of market value in the year 2011 and removal of 3 variables - natural log of Poverty Income											
11	Threshold (IPOV), no. of persons in the household (PER) and natural log monthly utilities cost (UTILITY).											
12	These variables had been removed since the p-value was not significant (> .05) when adding them into											
13	the model.											
14	2. 1000 housing units from the data has been held out and have been used to predict the housing value in											
15	2013, using the co-efficients from the regression model developed using the remaining data.											
16	3. As a metric of prediction, the Mean Absolute Deviation (MAD) has been calculated.											
17												
18	Interpretation of Co-efficients											
19	The coefficients have not been discussed here as they had been discussed in Assignment 3.											
20												
21	Prediction in the 'Hold-out' Data											
22	The regression model has an R-square of 0.60 (compared to 0.57 in Assignment 3). The increase is due											
23	to the additional variable - log transformation of market value in 2011 and removal of the 3 variables as											
24	discussed earlier.											
25												
26	The MAD statistic calculated from the 'Hold-out' data comprising of 1000 data points is \$83,213. The											
27	average of actual market value of 1000 housing units in 2013 in the 'Hold-out' data is \$245,420. This											
28	seems to ok comparatively.											
29	Please refer to the page 'Statistical Tests' for details on tests and calculation of the statistic.											