

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Run Summary Report

Item	Value	Rows	Value
Dependent Variable	Ln_Sale_Price	Number Processed	1815
Number Ind. Variables	19	Number Used in Estimation	879
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	936
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	841.509
Run Information	Value		
Iterations	10		
Max % Change in any Coef	0.001		
R ² after Robust Weighting	0.3076		
S using MAD	0.69		
S using MSE	0.63		
Completion Status	Normal Completion		

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Descriptive Statistics

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
LNBlock_area_sqm	879	6.649	0.418	5.37063802812766	8.88516409509682
LNHouse_area_sqm	879	4.975	0.105	4.12713438504509	5.29831736654804
LNHouse_Floor_area_sqm	879	4.796	0.177	4.27666611901606	5.57594910314632
LNBedrooms	879	1.022	0.312	0	1.6094379124341
LNBedrooms	879	0.099	0.250	0	1.09861228866811
LNCarSpaces	879	0.378	0.462	0	1.6094379124341
LnDistMM	879	7.568	0.399	6.09333954264191	8.38397347958564
LNDistToRailwayStation	879	7.305	0.783	3.53507267835323	8.39451486977514
LNDIST_PubPrimSch	879	7.292	0.664	2.90918641528462	8.37844064597854
LNNearestHighSch	879	7.146	0.566	5.0820970759365	8.35287157994558
LNDistance_to_AqCentre	879	8.234	0.172	7.75514066811002	8.78930796250832
LNDistance_to_Clink	879	7.341	0.598	3.44053910704444	8.45129896794273
LN_Dist_toCSUni	879	7.989	0.519	5.56992793801675	8.73464674422866
LNMinParkDist	879	6.765	0.672	3.95051045115272	7.99513540610637
LNComHealthCentre	879	7.465	0.585	5.30344760036561	8.6478017782273
LNClosest_Petrol	879	6.663	0.646	3.28920070606287	8.15695912932389
LNNearestFastFood	879	6.979	0.619	4.0130174068459	8.17677374941964
LNDistToHosp	879	7.357	0.696	5.15878670567525	8.51247526729416
LNNearestSGrocShop	879	7.227	0.530	4.36535692945826	8.10147112914078
Ln_Sale_Price	879	11.882	0.754	8.97716794922457	13.8318441260068

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Robust Iterations - Coefficients

Robust Iteration	Max Percent Change in Coefficients	b(0)	b(1)	b(2)	b(3)
0		9.93647	0.02412	-0.57624	0.78514
1	6547.514	7.17368	0.00726	-0.59643	0.79251
2	296.766	6.57888	0.00593	-0.61007	0.78939
3	212.557	6.44634	0.00587	-0.61467	0.78836
4	4.934	6.43458	0.00616	-0.61400	0.78728
5	0.995	6.43232	0.00622	-0.61381	0.78707
6	0.189	6.43173	0.00623	-0.61377	0.78703
7	0.043	6.43159	0.00623	-0.61377	0.78703
8	0.009	6.43155	0.00623	-0.61376	0.78702
9	0.003	6.43154	0.00623	-0.61376	0.78702
10	0.001	6.43154	0.00623	-0.61376	0.78702

Robust Iterations - Residuals

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.231	0.469	0.775	3.255
1	6547.514	0.226	0.461	0.770	3.353
2	296.766	0.227	0.461	0.766	3.373
3	212.557	0.228	0.461	0.767	3.378
4	4.934	0.229	0.460	0.767	3.378
5	0.995	0.229	0.460	0.767	3.379
6	0.189	0.229	0.460	0.767	3.379
7	0.043	0.229	0.460	0.767	3.379
8	0.009	0.229	0.460	0.767	3.379
9	0.003	0.229	0.460	0.767	3.379
10	0.001	0.229	0.460	0.767	3.379

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Regression Coefficients T-Tests Assuming Fixed Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standard-ized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	6.43154	4.061355	0.0000	1.584	0.1137	No
LNBlock_area_sqm	0.00623	0.062396	0.0035	0.100	0.9204	No
LNHouse_area_sqm	-0.61376	0.223854	-0.0858	-2.742	0.0062	Yes
LNHouse_Floor_area_sqm	0.78702	0.144717	0.1843	5.438	0.0000	Yes
LNBedrooms	0.86260	0.075816	0.3570	11.378	0.0000	Yes
LNBedrooms	-0.14491	0.092688	-0.0481	-1.563	0.1183	No
LNCarSpaces	0.24334	0.050562	0.1490	4.813	0.0000	Yes
LnDistMM	-0.00703	0.120459	-0.0037	-0.058	0.9535	No
LNDistToRailwayStation	-0.19355	0.075206	-0.2009	-2.574	0.0102	Yes
LNDIST_PubPrimSch	-0.12190	0.069855	-0.1073	-1.745	0.0813	No
LNNearestHighSch	-0.13995	0.068440	-0.1051	-2.045	0.0412	Yes
LNDistance_to_AqCentre	0.42033	0.653533	0.0956	0.643	0.5203	No
LNDistance_to_Clink	0.15992	0.110482	0.1267	1.447	0.1481	No
LN_Dist_toCSUni	0.08098	0.103685	0.0558	0.781	0.4350	No
LNMinParkDist	0.00522	0.054287	0.0047	0.096	0.9233	No
LNComHealthCentre	0.01967	0.101642	0.0153	0.193	0.8466	No
LNClosest_Petrol	0.02047	0.054264	0.0175	0.377	0.7061	No
LNNearestFastFood	-0.00190	0.080536	-0.0016	-0.024	0.9811	No
LNDistToHosp	0.03490	0.087956	0.0322	0.397	0.6916	No
LNNearestSGrocShop	0.17171	0.115508	0.1206	1.487	0.1375	No

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Regression Coefficients T-Tests Assuming Random Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standard-ized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	6.43154	4.373144	0.0000	1.471	0.1417	No
LNBlock_area_sqm	0.00623	0.067681	0.0035	0.092	0.9266	No
LNHouse_area_sqm	-0.61376	0.244124	-0.0858	-2.514	0.0121	Yes
LNHouse_Floor_area_sqm	0.78702	0.158660	0.1843	4.960	0.0000	Yes
LNBedrooms	0.86260	0.081940	0.3570	10.527	0.0000	Yes
LNBedrooms	-0.14491	0.100118	-0.0481	-1.447	0.1482	No
LNCarSpaces	0.24334	0.055438	0.1490	4.389	0.0000	Yes
LnDistMM	-0.00703	0.132713	-0.0037	-0.053	0.9578	No
LNDistToRailwayStation	-0.19355	0.080370	-0.2009	-2.408	0.0162	Yes
LNDIST_PubPrimSch	-0.12190	0.076923	-0.1073	-1.585	0.1134	No
LNNearestHighSch	-0.13995	0.074574	-0.1051	-1.877	0.0609	No
LNDistance_to_AqCentre	0.42033	0.704477	0.0956	0.597	0.5509	No
LNDistance_to_Clink	0.15992	0.120357	0.1267	1.329	0.1843	No
LN_Dist_toCSUni	0.08098	0.111600	0.0558	0.726	0.4683	No
LNMinParkDist	0.00522	0.059456	0.0047	0.088	0.9300	No
LNComHealthCentre	0.01967	0.110640	0.0153	0.178	0.8590	No
LNClosest_Petrol	0.02047	0.059666	0.0175	0.343	0.7316	No
LNNearestFastFood	-0.00190	0.088814	-0.0016	-0.021	0.9829	No
LNDistToHosp	0.03490	0.096599	0.0322	0.361	0.7179	No
LNNearestSGrocShop	0.17171	0.126937	0.1206	1.353	0.1765	No

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Regression Coefficients Confidence Intervals Assuming Fixed Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Lower 95% Conf. Limit of $\beta(i)$	Upper 95% Conf. Limit of $\beta(i)$
Intercept	6.43154	4.061355	-1.52857	14.39165
LNBlock_area_sqm	0.00623	0.062396	-0.11606	0.12853
LNHouse_area_sqm	-0.61376	0.223854	-1.05251	-0.17502
LNHouse_Floor_area_sqm	0.78702	0.144717	0.50338	1.07066
LNBedrooms	0.86260	0.075816	0.71401	1.01120
LNBedrooms	-0.14491	0.092688	-0.32658	0.03676
LNCarSpaces	0.24334	0.050562	0.14424	0.34244
LnDistMM	-0.00703	0.120459	-0.24312	0.22907
LNDistToRailwayStation	-0.19355	0.075206	-0.34096	-0.04615
LNDIST_PubPrimSch	-0.12190	0.069855	-0.25882	0.01501
LNNearestHighSch	-0.13995	0.068440	-0.27409	-0.00581
LNDistance_to_AqCentre	0.42033	0.653533	-0.86057	1.70123
LNDistance_to_Clink	0.15992	0.110482	-0.05662	0.37646
LN_Dist_toCSUni	0.08098	0.103685	-0.12224	0.28420
LNMinParkDist	0.00522	0.054287	-0.10117	0.11162
LNComHealthCentre	0.01967	0.101642	-0.17955	0.21888
LNClosest_Petrol	0.02047	0.054264	-0.08588	0.12683
LNNearestFastFood	-0.00190	0.080536	-0.15975	0.15594
LNDistToHosp	0.03490	0.087956	-0.13749	0.20729
LNNearestSGrocShop	0.17171	0.115508	-0.05469	0.39810

Note: The T-Value used to calculate these confidence limits was 1.960.

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Regression Coefficients Confidence Intervals Assuming Random Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Lower 95% Conf. Limit of $\beta(i)$	Upper 95% Conf. Limit of $\beta(i)$
Intercept	6.43154	4.373144	-2.13966	15.00275
LNBlock_area_sqm	0.00623	0.067681	-0.12642	0.13889
LNHouse_area_sqm	-0.61376	0.244124	-1.09224	-0.13529
LNHouse_Floor_area_sqm	0.78702	0.158660	0.47606	1.09799
LNBedrooms	0.86260	0.081940	0.70200	1.02320
LNBedrooms	-0.14491	0.100118	-0.34114	0.05132
LNCarSpaces	0.24334	0.055438	0.13469	0.35200
LnDistMM	-0.00703	0.132713	-0.26714	0.25309
LNDistToRailwayStation	-0.19355	0.080370	-0.35108	-0.03603
LNDIST_PubPrimSch	-0.12190	0.076923	-0.27267	0.02886
LNNearestHighSch	-0.13995	0.074574	-0.28611	0.00621
LNDistance_to_AqCentre	0.42033	0.704477	-0.96042	1.80108
LNDistance_to_Clink	0.15992	0.120357	-0.07598	0.39581
LN_Dist_toCSUni	0.08098	0.111600	-0.13775	0.29971
LNMinParkDist	0.00522	0.059456	-0.11131	0.12176
LNComHealthCentre	0.01967	0.110640	-0.19718	0.23652
LNClosest_Petrol	0.02047	0.059666	-0.09647	0.13741
LNNearestFastFood	-0.00190	0.088814	-0.17598	0.17217
LNDistToHosp	0.03490	0.096599	-0.15443	0.22423
LNNearestSGrocShop	0.17171	0.126937	-0.07709	0.42050

Note: The T-Value used to calculate these confidence limits was 1.960.

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Estimated Equation

Ln_Sale_Price =
 6.43154149277509 + 0.00623446744560974 * LNBlock_area_sqm - 0.613762607591426 * LNHouse_area_sqm
 + 0.787024275755038 * LNHouse_Floor_area_sqm + 0.862602755379801 * LNBedrooms - 0.144910020793373
 * LNBathrooms + 0.24334308286753 * LNCarSpaces - 0.00702620990144393 * LnDistMM -
 0.193554302734515 * LNDistToRailwayStation - 0.121902329362532 * LNDIST_PubPrimSch -
 0.139949860260267 * LNNearestHighSch + 0.420333542578234 * LNDistance_to_AqCentre +
 0.159919134721513 * LNDistance_to_Clink + 0.0809826529753921 * LN_Dist_toCSUni +
 0.00522499784033663 * LNMinParkDist + 0.019666349895187 * LNComHealthCentre + 0.0204710585391819 *
 LNClosest_Petrol - 0.00190441733003281 * LNNearestFastFood + 0.0349042305973602 * LNDistToHosp +
 0.171705333655038 * LNNearestSGrocShop

Analysis of Variance

Source	DF	R ²	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		118806.86	118806.86		
Model	19	0.3076	153.66	8.09	20.083	0.0000
Error	859	0.6924	345.92	0.40		
Total(Adjusted)	878	1.0000	499.58	0.57		

PRESS Report

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	469.58	345.92
Sum of Residuals	502.33	491.54
R ²	0.0600	0.3076

Normality Tests

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.978	0.0000	Yes
Anderson Darling	3.351	0.0000	Yes
D'Agostino Skewness	-8.460	0.0000	Yes
D'Agostino Kurtosis	5.008	0.0000	Yes
D'Agostino Omnibus	96.648	0.0000	Yes

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Serial Correlation of Residuals

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.1152	9	0.1998	17	0.0833
2	0.0962	10	0.1928	18	0.0839
3	0.1248	11	0.1227	19	0.0752
4	0.1078	12	0.1016	20	0.1071
5	0.1397	13	0.1049	21	0.1366
6	0.0923	14	0.1017	22	0.0911
7	0.0892	15	0.1219	23	0.0632
8	0.0766	16	0.0856	24	0.1266

Above serial correlations are significant if their absolute values are greater than 0.0675.

Durbin-Watson Test For Serial Correlation

Parameter	Test Statistic to Test H0: $\rho(1) = 0$?	Reject H0 at 20%?
Durbin-Watson Value	1.770	
Prob. Level: Positive Serial Correlation	0.0002	Yes
Prob. Level: Negative Serial Correlation	0.9995	No

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R² Report

Independent Variable (IV)	Total R ² for this IV and IV's Above	Increase in R ² if this IV Included with IV's Above	Decrease in R ² if this IV was Removed	R ² if this IV was Fit Alone	Partial R ² if Adjusted for All Other IV's
LNBlock_area_sqm	0.0315	0.0315	0.0000	0.0315	0.0000
LNHouse_area_sqm	0.0323	0.0007	0.0061	0.0040	0.0087
LNHouse_Floor_area_sqm	0.1001	0.0678	0.0238	0.0908	0.0333
LNBedrooms	0.2483	0.1482	0.1043	0.1941	0.1310
LNBedrooms	0.2483	0.0000	0.0020	0.0218	0.0028
LNCarSpaces	0.2673	0.0190	0.0187	0.0863	0.0263
LnDistMM	0.2816	0.0144	0.0000	0.0506	0.0000
LNDistToRailwayStation	0.2854	0.0038	0.0053	0.0044	0.0077
LNDIST_PubPrimSch	0.2895	0.0041	0.0025	0.0288	0.0035
LNNearestHighSch	0.2906	0.0011	0.0034	0.0000	0.0048
LNDistance_to_AqCentre	0.3003	0.0097	0.0003	0.0131	0.0005
LNDistance_to_Clink	0.3016	0.0014	0.0017	0.0095	0.0024
LN_Dist_toCSUni	0.3032	0.0015	0.0005	0.0347	0.0007
LNMinParkDist	0.3048	0.0016	0.0000	0.0063	0.0000
LNComHealthCentre	0.3048	0.0000	0.0000	0.0001	0.0000
LNClosest_Petrol	0.3051	0.0003	0.0001	0.0323	0.0002
LNNearestFastFood	0.3058	0.0007	0.0000	0.0055	0.0000
LNDistToHosp	0.3058	0.0000	0.0001	0.0075	0.0002
LNNearestSGrocShop	0.3076	0.0018	0.0018	0.0402	0.0026

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Variable Omission Report

Independent Variable	R ² When I.V. Omitted	MSE When I.V. Omitted	Mallow's Cp When I.V. Omitted	H0: $\beta(i)=0$ Prob Level	R ² of Regress. of This I.V. on Other I.V.'s
Full Model	0.3076	0.40			
LNBlock_area_sqm	0.3076	0.40	18.010	0.9204	0.3245
LNHouse_area_sqm	0.3015	0.41	25.517	0.0062	0.1769
LNHouse_Floor_area_sqm	0.2837	0.42	47.576	0.0000	0.2983
LNBedrooms	0.2032	0.46	147.450	0.0000	0.1811
LNBedrooms	0.3056	0.40	20.444	0.1183	0.1480
LNCarSpaces	0.2889	0.41	41.162	0.0000	0.1590
LnDistMM	0.3076	0.40	18.003	0.9535	0.8013
LNDistToRailwayStation	0.3022	0.41	24.624	0.0102	0.8677
LNDIST_PubPrimSch	0.3051	0.40	21.045	0.0813	0.7869
LNNearestHighSch	0.3042	0.40	22.181	0.0412	0.6947
LNDistance_to_AqCentre	0.3072	0.40	18.414	0.5203	0.9635
LNDistance_to_Clink	0.3059	0.40	20.095	0.1481	0.8948
LN_Dist_toCSUni	0.3071	0.40	18.610	0.4350	0.8419
LNMinParkDist	0.3076	0.40	18.009	0.9233	0.6554
LNComHealthCentre	0.3076	0.40	18.037	0.8466	0.8704
LNClosest_Petrol	0.3075	0.40	18.142	0.7061	0.6262
LNNearestFastFood	0.3076	0.40	18.001	0.9811	0.8152
LNDistToHosp	0.3075	0.40	18.157	0.6916	0.8775
LNNearestSGrocShop	0.3058	0.40	20.210	0.1375	0.8775

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Sum of Squares and Correlations

Independent Variable	Sequential Sum of Squares	Incremental Sum of Squares	Last Sum of Squares	Simple Correlation	Partial Correlation
LNBlock_area_sqm	15.75	15.75	0.00	0.1775	0.0034
LNHouse_area_sqm	16.11	0.37	3.03	0.0635	-0.0931
LNHouse_Floor_area_sqm	49.99	33.88	11.91	0.3013	0.1824
LNBedrooms	124.04	74.04	52.13	0.4406	0.3619
LNBedrooms	124.04	0.00	0.98	0.1475	-0.0533
LNCarSpaces	133.51	9.48	9.33	0.2938	0.1620
LnDistMM	140.69	7.17	0.00	0.2250	-0.0020
LNDistToRailwayStation	142.57	1.89	2.67	0.0662	-0.0875
LNDIST_PubPrimSch	144.61	2.04	1.23	-0.1696	-0.0594
LNNearestHighSch	145.16	0.55	1.68	-0.0019	-0.0696
LNDistance_to_AqCentre	150.01	4.85	0.17	0.1146	0.0219
LNDistance_to_Clink	150.69	0.68	0.84	0.0973	0.0493
LN_Dist_toCSUni	151.45	0.76	0.25	0.1863	0.0266
LNMinParkDist	152.26	0.81	0.00	0.0796	0.0033
LNComHealthCentre	152.27	0.01	0.02	0.0119	0.0066
LNClosest_Petrol	152.42	0.15	0.06	0.1798	0.0129
LNNearestFastFood	152.75	0.33	0.00	0.0742	-0.0008
LNDistToHosp	152.77	0.02	0.06	-0.0867	0.0135
LNNearestSGrocShop	153.66	0.89	0.89	0.2006	0.0507

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Sequential Models Report

Independent Variable	Included R ²	Included F-Ratio	Included Prob Level	Omitted R ²	Omitted F-Ratio	Omitted Prob Level
LNBlock_area_sqm	0.0315	28.542	0.0000	0.2761	19.027	0.0000
LNHouse_area_sqm	0.0323	14.600	0.0000	0.2753	20.092	0.0000
LNHouse_Floor_area_sqm	0.1001	32.434	0.0000	0.2075	16.090	0.0000
LNBedrooms	0.2483	72.168	0.0000	0.0593	4.904	0.0000
LNBedrooms	0.2483	57.669	0.0000	0.0593	5.255	0.0000
LNCarSpaces	0.2673	53.007	0.0000	0.0403	3.849	0.0000
LnDistMM	0.2816	48.776	0.0000	0.0260	2.685	0.0015
LNDistToRailwayStation	0.2854	43.431	0.0000	0.0222	2.503	0.0042
LNDIST_PubPrimSch	0.2895	39.336	0.0000	0.0181	2.247	0.0137
LNNearestHighSch	0.2906	35.552	0.0000	0.0170	2.345	0.0129
LNDistance_to_AqCentre	0.3003	33.824	0.0000	0.0073	1.133	0.3384
LNDistance_to_Clink	0.3016	31.170	0.0000	0.0059	1.054	0.3914
LN_Dist_toCSUni	0.3032	28.947	0.0000	0.0044	0.916	0.4825
LNMinParkDist	0.3048	27.054	0.0000	0.0028	0.698	0.6251
LNComHealthCentre	0.3048	25.224	0.0000	0.0028	0.864	0.4853
LNClosest_Petrol	0.3051	23.655	0.0000	0.0025	1.025	0.3810
LNNearestFastFood	0.3058	22.307	0.0000	0.0018	1.126	0.3248
LNDistToHosp	0.3058	21.047	0.0000	0.0018	2.210	0.1375
LNNearestSGrocShop	0.3076	20.083	0.0000	0.0000		

Notes

1. INCLUDED variables are those listed from current row up (includes current row).
2. OMITTED variables are those listed below (but not including) this row.

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Multicollinearity Report

Independent Variable	Variance Inflation Factor	R ² Versus Other I.V.'s	Tolerance	Diagonal of X'X Inverse
LNBlock_area_sqm	1.4803	0.3245	0.6755	0.00966811885110106
LNHouse_area_sqm	1.2149	0.1769	0.8231	0.124438223997879
LNHouse_Floor_area_sqm	1.4251	0.2983	0.7017	0.0520068763548509
LNBedrooms	1.2212	0.1811	0.8189	0.0142738862475021
LNBedrooms	1.1737	0.1480	0.8520	0.0213341129406022
LNCarSpaces	1.1891	0.1590	0.8410	0.00634860477906501
LnDistMM	5.0321	0.8013	0.1987	0.0360331888542327
LNDistToRailwayStation	7.5573	0.8677	0.1323	0.0140452443160719
LNDIST_PubPrimSch	4.6936	0.7869	0.2131	0.0121175453543606
LNNearestHighSch	3.2754	0.6947	0.3053	0.0116317755778496
LNDistance_to_AqCentre	27.3989	0.9635	0.0365	1.06061576783283
LNDistance_to_Clink	9.5090	0.8948	0.1052	0.0303112901779201
LN_Dist_toCSUni	6.3238	0.8419	0.1581	0.0266967058508719
LNMinParkDist	2.9022	0.6554	0.3446	0.00731829019311652
LNComHealthCentre	7.7168	0.8704	0.1296	0.025654900585544
LNClosest_Petrol	2.6753	0.6262	0.3738	0.00731223272163847
LNNearestFastFood	5.4112	0.8152	0.1848	0.0161065748295316
LNDistToHosp	8.1659	0.8775	0.1225	0.0192111123108186
LNNearestSGrocShop	8.1616	0.8775	0.1225	0.0331319469089972

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Robust Residuals and Weights

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	10.690	10.899	-0.209	1.956	1.0000
2	12.708	11.965	0.744	5.852	1.0000
3	12.884	12.338	0.546	4.237	1.0000
4	12.133	12.026	0.106	0.878	1.0000
5	12.764	12.596	0.168	1.316	1.0000
6	10.731	11.153	-0.423	3.941	1.0000
7	10.953	11.728	-0.775	7.076	1.0000
8	10.672	11.675	-1.003	9.397	0.9204
9	11.856	10.835	1.021	8.613	0.9040
10	10.827	11.389	-0.562	5.190	1.0000
11	11.411	12.107	-0.696	6.098	1.0000
12	11.244	11.473	-0.229	2.038	1.0000
13	12.364	11.736	0.628	5.083	1.0000
14	11.651	11.942	-0.291	2.497	1.0000
15	11.763	11.990	-0.227	1.930	1.0000
16	10.314	10.785	-0.471	4.566	1.0000
17	10.933	11.643	-0.711	6.500	1.0000
18	11.855	11.612	0.243	2.053	1.0000
19	11.529	11.930	-0.401	3.478	1.0000
21	11.666	11.859	-0.192	1.648	1.0000
22	10.160	12.915	-2.755	27.115	0.3351
23	11.547	12.152	-0.605	5.241	1.0000
25	11.632	11.647	-0.015	0.126	1.0000
26	10.146	11.494	-1.347	13.279	0.6851
27	11.328	11.720	-0.392	3.462	1.0000
28	11.504	11.494	0.010	0.087	1.0000
29	11.569	11.648	-0.080	0.688	1.0000
30	12.453	11.637	0.815	6.546	1.0000
31	11.533	11.721	-0.188	1.633	1.0000
32	10.745	11.327	-0.583	5.423	1.0000
33	11.081	11.603	-0.522	4.714	1.0000
34	12.146	11.623	0.522	4.300	1.0000
35	12.352	11.615	0.736	5.962	1.0000
36	11.949	11.660	0.288	2.414	1.0000
37	10.150	11.739	-1.589	15.652	0.5810
38	11.512	11.830	-0.318	2.761	1.0000
39	11.431	11.841	-0.410	3.589	1.0000
40	11.477	11.938	-0.461	4.016	1.0000
41	10.492	10.724	-0.232	2.216	1.0000
45	12.172	12.237	-0.065	0.533	1.0000
46	10.976	11.610	-0.634	5.775	1.0000
47	11.246	11.808	-0.562	4.997	1.0000
48	12.003	12.467	-0.465	3.871	1.0000
49	11.731	11.582	0.148	1.264	1.0000
50	10.655	12.003	-1.348	12.652	0.6848
51	11.077	11.452	-0.375	3.387	1.0000
52	10.327	11.611	-1.285	12.442	0.7185

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
53	9.805	12.488	-2.684	27.370	0.3440
54	10.000	10.683	-0.683	6.829	1.0000
55	11.277	12.094	-0.818	7.250	1.0000
56	11.587	11.821	-0.233	2.013	1.0000
57	10.813	11.991	-1.178	10.899	0.7833
58	9.983	10.678	-0.695	6.961	1.0000
59	10.327	11.938	-1.611	15.595	0.5732
60	11.175	11.948	-0.772	6.912	1.0000
61	11.038	11.804	-0.766	6.938	1.0000
62	10.841	11.268	-0.428	3.943	1.0000
63	11.396	12.078	-0.682	5.987	1.0000
64	10.329	10.793	-0.464	4.493	1.0000
65	11.892	12.023	-0.131	1.103	1.0000
66	10.677	12.090	-1.414	13.239	0.6530
67	11.771	12.005	-0.235	1.993	1.0000
68	11.624	12.191	-0.567	4.874	1.0000
69	11.373	12.137	-0.764	6.718	1.0000
75	11.120	12.379	-1.259	11.321	0.7333
80	11.737	11.940	-0.203	1.726	1.0000
82	12.280	12.033	0.247	2.010	1.0000
83	11.406	11.792	-0.387	3.389	1.0000
84	12.659	12.376	0.283	2.238	1.0000
85	10.498	10.943	-0.445	4.240	1.0000
87	10.560	10.749	-0.188	1.783	1.0000
90	9.789	10.587	-0.798	8.151	1.0000
91	11.323	11.424	-0.101	0.894	1.0000
92	10.527	11.531	-1.004	9.533	0.9198
93	9.788	11.331	-1.542	15.758	0.5985
94	11.456	11.448	0.009	0.077	1.0000
95	10.979	10.935	0.045	0.406	1.0000
96	10.951	11.544	-0.593	5.417	1.0000
97	11.179	11.544	-0.365	3.262	1.0000
98	11.982	11.515	0.467	3.896	1.0000
106	10.159	10.690	-0.531	5.232	1.0000
107	11.937	11.659	0.278	2.331	1.0000
110	10.738	11.056	-0.317	2.954	1.0000
111	11.953	11.681	0.271	2.271	1.0000
113	13.040	12.193	0.847	6.495	1.0000
116	11.913	11.963	-0.050	0.422	1.0000
117	12.291	12.334	-0.043	0.354	1.0000
119	12.324	12.220	0.105	0.849	1.0000
122	11.072	11.864	-0.792	7.152	1.0000
123	11.104	11.864	-0.760	6.844	1.0000
124	11.842	11.987	-0.145	1.221	1.0000
125	10.255	12.083	-1.828	17.825	0.5050
126	11.841	12.620	-0.779	6.575	1.0000
127	12.815	12.781	0.034	0.267	1.0000

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
130	12.726	12.173	0.553	4.345	1.0000
131	12.560	12.560	0.001	0.005	1.0000
133	11.260	11.318	-0.058	0.516	1.0000
134	11.401	11.962	-0.561	4.924	1.0000
135	11.774	12.344	-0.570	4.841	1.0000
136	12.325	11.620	0.704	5.715	1.0000
137	10.623	12.390	-1.767	16.637	0.5223
138	11.306	12.017	-0.711	6.289	1.0000
139	11.026	12.431	-1.405	12.740	0.6571
140	11.315	12.434	-1.119	9.885	0.8253
143	11.549	11.698	-0.150	1.297	1.0000
144	12.287	11.713	0.574	4.669	1.0000
145	11.690	11.942	-0.252	2.154	1.0000
147	11.253	12.124	-0.871	7.742	1.0000
148	10.297	12.155	-1.858	18.043	0.4969
149	11.060	11.663	-0.602	5.447	1.0000
151	11.533	11.918	-0.385	3.336	1.0000
152	11.296	11.378	-0.082	0.728	1.0000
153	9.459	10.819	-1.359	14.369	0.6791
154	12.034	11.682	0.352	2.921	1.0000
155	11.249	11.725	-0.477	4.236	1.0000
157	12.434	12.003	0.430	3.462	1.0000
160	11.256	11.558	-0.303	2.689	1.0000
161	11.751	11.439	0.312	2.658	1.0000
163	12.402	12.019	0.384	3.094	1.0000
164	11.644	11.464	0.179	1.541	1.0000
166	12.305	12.347	-0.042	0.341	1.0000
167	11.767	12.141	-0.374	3.175	1.0000
168	10.331	12.363	-2.033	19.678	0.4541
171	12.047	11.888	0.159	1.319	1.0000
172	11.183	11.618	-0.436	3.896	1.0000
173	10.841	10.687	0.155	1.427	1.0000
176	11.069	11.646	-0.577	5.214	1.0000
180	10.678	11.693	-1.015	9.507	0.9093
181	12.414	12.377	0.037	0.300	1.0000
184	11.984	11.275	0.709	5.917	1.0000
188	12.788	11.886	0.903	7.059	1.0000
189	11.037	11.632	-0.595	5.390	1.0000
190	11.538	12.205	-0.666	5.774	1.0000
191	11.811	12.194	-0.383	3.241	1.0000
192	11.080	12.318	-1.238	11.169	0.7459
198	9.936	11.789	-1.853	18.652	0.4981
200	11.341	11.485	-0.144	1.271	1.0000
202	10.731	11.845	-1.114	10.382	0.8286
203	11.245	11.871	-0.626	5.571	1.0000
204	11.264	12.041	-0.777	6.897	1.0000
207	11.062	12.043	-0.981	8.864	0.9414

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
211	11.464	11.906	-0.442	3.855	1.0000
212	12.018	11.809	0.209	1.736	1.0000
214	10.976	11.873	-0.897	8.172	1.0000
215	10.143	11.918	-1.775	17.503	0.5200
217	10.737	11.793	-1.055	9.830	0.8746
228	11.397	11.394	0.003	0.025	1.0000
230	11.209	10.793	0.416	3.714	1.0000
232	12.325	11.826	0.499	4.048	1.0000
233	10.257	11.650	-1.393	13.579	0.6628
234	11.375	11.426	-0.051	0.450	1.0000
236	12.457	11.848	0.608	4.884	1.0000
237	11.407	12.007	-0.601	5.265	1.0000
239	11.252	12.177	-0.925	8.220	0.9980
241	12.837	12.599	0.238	1.851	1.0000
242	11.179	12.466	-1.287	11.508	0.7175
244	11.850	12.043	-0.193	1.630	1.0000
246	11.793	11.916	-0.123	1.046	1.0000
247	12.483	12.149	0.334	2.679	1.0000
250	10.237	11.343	-1.106	10.801	0.8348
251	10.787	11.332	-0.545	5.050	1.0000
252	10.844	11.829	-0.985	9.084	0.9371
253	10.743	11.748	-1.005	9.354	0.9185
254	10.905	11.511	-0.606	5.555	1.0000
255	10.694	11.105	-0.412	3.850	1.0000
257	10.142	10.783	-0.641	6.320	1.0000
258	10.794	11.943	-1.149	10.645	0.8034
280	11.069	11.510	-0.442	3.992	1.0000
281	11.404	11.789	-0.385	3.379	1.0000
282	11.443	12.114	-0.671	5.861	1.0000
284	11.065	11.961	-0.896	8.100	1.0000
285	10.562	12.227	-1.664	15.757	0.5546
286	10.857	11.782	-0.924	8.513	0.9988
288	11.325	11.613	-0.288	2.546	1.0000
290	11.581	11.893	-0.311	2.689	1.0000
292	12.002	12.267	-0.265	2.205	1.0000
294	11.631	11.891	-0.260	2.234	1.0000
295	10.143	11.639	-1.496	14.751	0.6170
296	12.599	11.732	0.866	6.877	1.0000
298	11.944	11.612	0.332	2.778	1.0000
300	10.554	10.764	-0.210	1.990	1.0000
303	10.905	11.964	-1.060	9.716	0.8712
305	11.021	11.302	-0.282	2.557	1.0000
306	10.858	12.370	-1.513	13.931	0.6103
309	11.935	11.524	0.411	3.447	1.0000
310	12.705	12.148	0.558	4.391	1.0000
311	11.307	12.492	-1.185	10.482	0.7788
315	12.702	11.719	0.983	7.742	0.9387

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
317	9.786	11.448	-1.662	16.985	0.5554
318	12.043	12.094	-0.051	0.425	1.0000
319	11.619	10.822	0.797	6.859	1.0000
320	9.859	11.420	-1.561	15.833	0.5914
324	10.792	11.646	-0.854	7.915	1.0000
325	11.066	11.962	-0.896	8.096	1.0000
326	12.933	12.054	0.880	6.801	1.0000
327	12.093	12.117	-0.024	0.199	1.0000
329	9.760	11.068	-1.308	13.403	0.7057
332	11.316	11.683	-0.367	3.247	1.0000
333	11.842	12.331	-0.489	4.130	1.0000
335	10.845	11.687	-0.843	7.771	1.0000
336	11.925	11.672	0.253	2.119	1.0000
337	10.041	11.340	-1.299	12.933	0.7108
338	10.986	12.001	-1.014	9.234	0.9100
341	10.848	12.185	-1.337	12.323	0.6905
342	11.580	12.316	-0.736	6.360	1.0000
347	10.738	12.111	-1.373	12.786	0.6724
348	11.582	11.797	-0.215	1.856	1.0000
349	12.308	11.955	0.354	2.875	1.0000
352	12.690	12.862	-0.172	1.358	1.0000
353	12.588	12.250	0.338	2.682	1.0000
354	13.367	12.799	0.568	4.247	1.0000
356	12.049	11.092	0.957	7.943	0.9645
357	10.160	12.457	-2.297	22.603	0.4020
358	12.561	12.432	0.129	1.026	1.0000
361	10.941	12.073	-1.131	10.338	0.8161
363	12.192	11.780	0.412	3.380	1.0000
364	11.402	11.378	0.024	0.210	1.0000
365	11.771	11.698	0.072	0.614	1.0000
366	11.404	10.988	0.415	3.643	1.0000
368	12.515	12.156	0.359	2.867	1.0000
369	12.271	12.268	0.003	0.021	1.0000
371	11.356	11.769	-0.413	3.633	1.0000
372	11.754	10.700	1.054	8.966	0.8759
374	11.337	11.646	-0.309	2.723	1.0000
375	12.119	11.688	0.430	3.552	1.0000
378	11.636	11.640	-0.004	0.037	1.0000
380	10.497	10.715	-0.218	2.073	1.0000
381	11.658	12.216	-0.559	4.791	1.0000
382	11.077	11.576	-0.499	4.505	1.0000
383	12.191	11.903	0.288	2.361	1.0000
387	12.047	12.389	-0.342	2.836	1.0000
388	13.380	12.627	0.753	5.624	1.0000
390	12.755	12.282	0.473	3.706	1.0000
392	11.077	11.844	-0.767	6.926	1.0000
393	12.285	12.034	0.251	2.044	1.0000

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
394	11.646	12.404	-0.758	6.505	1.0000
398	10.142	10.769	-0.627	6.187	1.0000
400	12.007	11.852	0.155	1.293	1.0000
402	10.700	11.522	-0.822	7.685	1.0000
404	12.916	10.847	2.069	16.020	0.4461
406	12.125	11.716	0.409	3.375	1.0000
408	12.664	11.603	1.061	8.377	0.8702
410	12.129	11.597	0.532	4.390	1.0000
411	10.129	11.394	-1.264	12.482	0.7301
414	11.852	11.990	-0.138	1.166	1.0000
419	12.857	12.178	0.679	5.281	1.0000
422	11.181	11.707	-0.526	4.703	1.0000
425	12.224	11.581	0.643	5.260	1.0000
429	11.902	11.714	0.188	1.581	1.0000
431	12.690	12.104	0.586	4.619	1.0000
436	12.720	11.799	0.921	7.242	1.0000
441	11.728	11.154	0.574	4.895	1.0000
447	12.418	12.144	0.274	2.210	1.0000
450	12.686	12.261	0.426	3.355	1.0000
451	12.216	11.460	0.756	6.189	1.0000
455	11.889	11.390	0.499	4.197	1.0000
456	11.105	11.655	-0.550	4.954	1.0000
457	12.224	12.247	-0.023	0.192	1.0000
458	12.844	12.424	0.420	3.267	1.0000
459	12.680	11.830	0.850	6.700	1.0000
460	11.997	11.440	0.557	4.644	1.0000
464	12.586	11.686	0.899	7.146	1.0000
465	12.499	11.718	0.781	6.248	1.0000
466	10.793	11.406	-0.613	5.678	1.0000
467	11.803	11.780	0.024	0.203	1.0000
468	11.671	11.480	0.191	1.634	1.0000
469	12.762	12.337	0.425	3.334	1.0000
472	12.205	12.458	-0.253	2.074	1.0000
474	11.808	11.951	-0.143	1.208	1.0000
475	11.906	12.177	-0.270	2.271	1.0000
476	11.771	12.141	-0.370	3.148	1.0000
477	12.160	11.836	0.323	2.660	1.0000
478	12.419	12.029	0.390	3.138	1.0000
479	12.478	11.990	0.488	3.913	1.0000
481	12.573	12.130	0.444	3.528	1.0000
482	13.635	12.667	0.968	7.100	0.9535
483	11.836	12.456	-0.620	5.242	1.0000
484	9.565	12.356	-2.792	29.187	0.3307
485	11.743	12.356	-0.613	5.221	1.0000
486	9.662	12.220	-2.559	26.482	0.3608
487	12.212	11.650	0.563	4.609	1.0000
490	10.921	11.424	-0.503	4.606	1.0000

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
491	12.554	12.375	0.179	1.422	1.0000
492	10.822	11.781	-0.958	8.856	0.9631
493	12.539	11.705	0.835	6.656	1.0000
495	13.329	12.482	0.847	6.356	1.0000
496	10.125	11.392	-1.267	12.512	0.7287
497	11.395	11.999	-0.605	5.306	1.0000
498	11.660	11.821	-0.160	1.373	1.0000
500	12.293	11.878	0.415	3.377	1.0000
502	11.968	12.110	-0.142	1.187	1.0000
503	12.306	12.147	0.158	1.288	1.0000
511	12.194	12.082	0.112	0.922	1.0000
514	11.882	12.088	-0.206	1.731	1.0000
526	11.046	11.245	-0.199	1.803	1.0000
527	11.391	11.326	0.065	0.573	1.0000
530	12.614	11.963	0.652	5.166	1.0000
531	11.413	11.772	-0.359	3.144	1.0000
536	12.505	11.534	0.971	7.761	0.9511
539	11.326	11.369	-0.044	0.385	1.0000
542	11.582	12.068	-0.487	4.203	1.0000
544	12.579	11.603	0.976	7.760	0.9458
545	11.001	12.037	-1.035	9.412	0.8915
547	11.001	12.526	-1.525	13.861	0.6053
549	11.634	11.563	0.071	0.607	1.0000
551	11.965	11.842	0.123	1.032	1.0000
555	11.886	11.268	0.618	5.199	1.0000
557	11.984	11.633	0.351	2.930	1.0000
560	11.884	11.468	0.416	3.504	1.0000
562	11.867	12.320	-0.453	3.816	1.0000
565	11.459	11.815	-0.355	3.101	1.0000
566	12.012	11.864	0.149	1.239	1.0000
567	11.797	11.909	-0.112	0.948	1.0000
571	11.986	12.083	-0.097	0.813	1.0000
572	11.276	12.264	-0.988	8.761	0.9345
573	11.276	12.873	-1.597	14.164	0.5780
574	13.247	12.781	0.466	3.517	1.0000
575	13.298	12.781	0.517	3.886	1.0000
576	12.035	12.028	0.007	0.059	1.0000
577	12.522	12.558	-0.036	0.284	1.0000
578	12.690	12.043	0.647	5.095	1.0000
580	12.631	12.543	0.088	0.699	1.0000
581	12.706	12.330	0.376	2.957	1.0000
587	11.962	12.281	-0.319	2.669	1.0000
588	11.358	12.097	-0.739	6.511	1.0000
591	12.939	11.700	1.239	9.575	0.7451
595	11.775	11.773	0.002	0.014	1.0000
598	11.430	11.693	-0.263	2.301	1.0000
599	11.733	12.002	-0.269	2.292	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
601	13.041	12.724	0.318	2.435	1.0000
602	12.405	12.549	-0.144	1.157	1.0000
605	12.420	12.198	0.222	1.788	1.0000
606	12.877	12.273	0.605	4.695	1.0000
609	12.076	11.669	0.406	3.364	1.0000
610	10.858	11.608	-0.749	6.900	1.0000
611	12.917	12.167	0.750	5.809	1.0000
612	10.705	12.032	-1.327	12.398	0.6955
613	11.940	11.896	0.044	0.366	1.0000
614	12.169	11.945	0.224	1.841	1.0000
619	10.932	11.684	-0.752	6.879	1.0000
620	13.010	12.385	0.624	4.798	1.0000
622	12.795	11.794	1.001	7.821	0.9225
626	11.836	11.478	0.358	3.021	1.0000
630	11.996	12.253	-0.257	2.141	1.0000
632	11.254	11.627	-0.374	3.323	1.0000
633	12.257	11.810	0.447	3.649	1.0000
634	10.705	11.723	-1.018	9.513	0.9064
635	12.572	12.075	0.497	3.951	1.0000
639	12.001	11.696	0.305	2.544	1.0000
642	9.655	11.324	-1.669	17.286	0.5531
645	11.019	11.384	-0.366	3.318	1.0000
650	10.722	11.735	-1.014	9.454	0.9107
655	11.193	11.834	-0.641	5.729	1.0000
657	12.546	11.677	0.869	6.930	1.0000
658	12.636	12.232	0.404	3.197	1.0000
662	10.926	12.400	-1.474	13.493	0.6262
663	11.840	11.754	0.085	0.720	1.0000
664	12.496	12.125	0.371	2.966	1.0000
665	11.454	11.751	-0.296	2.588	1.0000
669	11.719	11.734	-0.015	0.127	1.0000
670	12.064	11.745	0.318	2.639	1.0000
671	11.172	11.737	-0.565	5.053	1.0000
676	12.589	12.533	0.056	0.445	1.0000
678	12.541	11.920	0.621	4.953	1.0000
684	9.338	10.750	-1.413	15.129	0.6534
688	12.099	11.853	0.246	2.036	1.0000
689	11.999	12.203	-0.204	1.700	1.0000
690	12.011	11.892	0.119	0.990	1.0000
692	12.165	11.786	0.380	3.120	1.0000
693	10.835	11.849	-1.014	9.361	0.9102
704	11.265	12.027	-0.762	6.767	1.0000
706	11.600	11.367	0.232	2.003	1.0000
707	10.364	11.852	-1.488	14.357	0.6204
712	11.981	12.246	-0.265	2.209	1.0000
713	11.956	11.929	0.027	0.229	1.0000
715	11.735	11.776	-0.041	0.351	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
719	12.406	12.256	0.149	1.203	1.0000
722	13.116	11.999	1.117	8.518	0.8262
724	12.535	12.138	0.398	3.173	1.0000
729	12.315	11.898	0.417	3.382	1.0000
733	12.831	12.200	0.631	4.918	1.0000
735	11.109	12.176	-1.067	9.606	0.8650
736	12.585	11.754	0.831	6.605	1.0000
738	12.257	12.438	-0.180	1.472	1.0000
739	11.962	12.543	-0.580	4.851	1.0000
740	11.462	11.911	-0.449	3.918	1.0000
743	13.137	12.688	0.448	3.413	1.0000
744	13.143	12.483	0.660	5.019	1.0000
747	11.371	11.870	-0.499	4.387	1.0000
749	11.803	12.310	-0.507	4.295	1.0000
751	12.730	11.848	0.882	6.928	1.0000
752	11.944	12.309	-0.364	3.051	1.0000
754	10.943	12.012	-1.070	9.776	0.8629
755	11.285	11.710	-0.425	3.767	1.0000
757	10.974	11.958	-0.984	8.965	0.9382
758	11.361	12.470	-1.109	9.764	0.8322
760	12.633	11.728	0.904	7.159	1.0000
761	12.043	10.788	1.254	10.414	0.7360
763	8.977	12.356	-3.379	37.635	0.2732
765	11.710	12.166	-0.456	3.896	1.0000
767	11.784	11.905	-0.121	1.027	1.0000
770	12.508	12.088	0.420	3.355	1.0000
773	12.451	12.490	-0.038	0.307	1.0000
782	12.534	12.215	0.319	2.543	1.0000
785	11.923	11.578	0.344	2.888	1.0000
786	11.129	11.408	-0.279	2.510	1.0000
787	12.078	11.644	0.434	3.590	1.0000
788	11.717	11.578	0.139	1.187	1.0000
795	13.017	12.091	0.926	7.110	0.9973
797	10.493	11.236	-0.743	7.082	1.0000
798	11.883	11.776	0.107	0.897	1.0000
799	11.546	12.291	-0.744	6.448	1.0000
803	11.939	11.400	0.538	4.509	1.0000
805	12.482	11.773	0.709	5.681	1.0000
806	11.413	11.916	-0.503	4.406	1.0000
807	12.389	11.307	1.082	8.731	0.8534
809	9.696	11.015	-1.319	13.601	0.6999
811	12.098	11.786	0.311	2.572	1.0000
813	11.542	11.391	0.151	1.305	1.0000
817	11.115	11.644	-0.529	4.756	1.0000
818	10.423	11.498	-1.075	10.314	0.8587
819	11.614	11.998	-0.383	3.299	1.0000
820	12.303	11.972	0.331	2.691	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
821	12.546	12.438	0.108	0.861	1.0000
824	11.785	12.229	-0.444	3.769	1.0000
826	11.380	11.613	-0.232	2.039	1.0000
833	11.331	11.891	-0.560	4.942	1.0000
835	12.310	12.165	0.145	1.179	1.0000
841	11.909	12.014	-0.105	0.878	1.0000
845	12.297	11.632	0.664	5.403	1.0000
852	11.222	11.333	-0.111	0.990	1.0000
853	11.623	11.360	0.263	2.265	1.0000
855	12.804	11.858	0.946	7.386	0.9761
857	12.051	12.045	0.006	0.046	1.0000
859	11.753	11.970	-0.217	1.845	1.0000
861	12.144	11.973	0.171	1.408	1.0000
864	11.962	11.842	0.119	0.995	1.0000
868	11.591	12.318	-0.728	6.277	1.0000
870	11.717	12.018	-0.300	2.563	1.0000
871	12.794	11.851	0.944	7.374	0.9784
875	12.036	12.004	0.032	0.268	1.0000
877	10.415	11.459	-1.044	10.021	0.8844
878	12.897	12.159	0.738	5.721	1.0000
881	10.420	10.965	-0.545	5.229	1.0000
883	13.151	12.190	0.961	7.304	0.9610
884	12.193	12.749	-0.556	4.556	1.0000
885	12.238	12.317	-0.079	0.647	1.0000
887	13.045	11.689	1.356	10.395	0.6807
889	11.698	12.033	-0.335	2.860	1.0000
890	12.736	10.776	1.960	15.391	0.4709
895	9.917	11.370	-1.453	14.656	0.6351
898	11.621	11.644	-0.023	0.199	1.0000
902	10.813	11.468	-0.655	6.061	1.0000
903	12.804	12.251	0.553	4.319	1.0000
904	11.851	11.509	0.343	2.892	1.0000
906	12.155	12.126	0.029	0.236	1.0000
908	11.226	11.660	-0.434	3.870	1.0000
909	12.430	12.759	-0.329	2.644	1.0000
910	12.649	12.250	0.399	3.152	1.0000
912	13.049	12.367	0.682	5.224	1.0000
914	11.820	12.316	-0.497	4.202	1.0000
917	12.332	12.064	0.268	2.175	1.0000
918	11.873	11.698	0.175	1.472	1.0000
920	12.274	11.945	0.329	2.677	1.0000
921	12.684	12.024	0.659	5.199	1.0000
922	11.675	11.458	0.217	1.857	1.0000
923	12.329	11.900	0.429	3.480	1.0000
924	12.455	11.871	0.584	4.686	1.0000
926	12.116	11.929	0.187	1.544	1.0000
928	11.844	12.109	-0.265	2.238	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
929	12.932	12.502	0.431	3.329	1.0000
930	13.310	12.252	1.058	7.948	0.8726
931	10.724	11.906	-1.183	11.029	0.7805
932	11.971	12.376	-0.405	3.381	1.0000
935	12.943	12.140	0.802	6.198	1.0000
936	13.327	12.955	0.372	2.791	1.0000
939	11.803	11.758	0.045	0.381	1.0000
941	12.086	12.569	-0.483	3.995	1.0000
951	11.755	11.645	0.110	0.938	1.0000
952	11.911	11.813	0.098	0.819	1.0000
953	11.911	11.659	0.252	2.116	1.0000
954	12.782	11.688	1.093	8.555	0.8442
956	12.498	12.390	0.108	0.864	1.0000
957	12.217	11.896	0.322	2.632	1.0000
958	12.083	11.741	0.342	2.834	1.0000
959	10.810	11.449	-0.639	5.910	1.0000
960	12.594	12.202	0.392	3.112	1.0000
961	12.046	11.908	0.138	1.144	1.0000
965	10.902	11.298	-0.397	3.641	1.0000
966	12.164	12.073	0.091	0.746	1.0000
973	11.109	12.353	-1.244	11.201	0.7419
974	12.085	12.302	-0.218	1.802	1.0000
975	12.448	12.386	0.062	0.499	1.0000
976	11.735	12.196	-0.460	3.923	1.0000
978	11.829	11.673	0.156	1.321	1.0000
981	13.633	12.632	1.001	7.345	0.9219
984	10.834	11.861	-1.026	9.472	0.8995
985	9.116	11.925	-2.809	30.816	0.3286
986	12.708	11.863	0.844	6.645	1.0000
992	12.166	12.056	0.110	0.901	1.0000
996	12.029	12.277	-0.248	2.063	1.0000
998	12.282	12.421	-0.138	1.126	1.0000
1002	11.992	11.901	0.091	0.760	1.0000
1003	12.384	11.717	0.667	5.385	1.0000
1006	10.783	11.076	-0.293	2.717	1.0000
1007	9.650	11.873	-2.223	23.036	0.4152
1011	11.583	11.747	-0.164	1.415	1.0000
1014	13.077	12.216	0.861	6.584	1.0000
1018	12.738	12.011	0.727	5.708	1.0000
1019	12.169	11.749	0.420	3.453	1.0000
1020	12.125	12.332	-0.207	1.707	1.0000
1024	13.084	12.391	0.693	5.296	1.0000
1029	12.577	12.372	0.205	1.627	1.0000
1030	12.173	11.386	0.787	6.464	1.0000
1033	11.375	11.749	-0.374	3.287	1.0000
1039	11.866	11.648	0.218	1.840	1.0000
1041	12.643	12.027	0.616	4.870	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1042	12.915	11.962	0.952	7.373	0.9694
1045	11.371	12.071	-0.701	6.163	1.0000
1047	11.127	11.702	-0.575	5.165	1.0000
1048	12.057	11.876	0.181	1.498	1.0000
1049	11.562	11.828	-0.266	2.305	1.0000
1050	11.975	11.421	0.554	4.627	1.0000
1052	12.715	11.541	1.174	9.233	0.7863
1055	12.004	11.574	0.429	3.578	1.0000
1059	13.289	12.505	0.784	5.900	1.0000
1063	12.017	12.007	0.010	0.083	1.0000
1064	12.939	12.268	0.671	5.183	1.0000
1065	12.965	12.443	0.523	4.032	1.0000
1066	12.110	11.869	0.241	1.993	1.0000
1067	11.732	11.993	-0.261	2.223	1.0000
1068	11.264	10.677	0.587	5.210	1.0000
1070	11.997	11.355	0.642	5.351	1.0000
1071	12.549	11.734	0.815	6.492	1.0000
1073	12.981	12.474	0.507	3.905	1.0000
1074	12.765	12.195	0.571	4.471	1.0000
1078	12.841	11.804	1.038	8.080	0.8897
1079	12.764	12.275	0.489	3.831	1.0000
1087	11.951	11.314	0.637	5.332	1.0000
1089	12.104	11.739	0.364	3.011	1.0000
1090	11.663	11.624	0.039	0.334	1.0000
1091	12.655	12.172	0.483	3.816	1.0000
1092	12.832	12.334	0.498	3.880	1.0000
1094	12.819	12.095	0.724	5.651	1.0000
1096	12.146	11.745	0.401	3.301	1.0000
1101	13.088	12.236	0.852	6.510	1.0000
1103	12.536	11.919	0.617	4.926	1.0000
1106	10.973	10.731	0.242	2.205	1.0000
1110	12.424	11.766	0.658	5.299	1.0000
1111	11.260	11.818	-0.558	4.956	1.0000
1112	12.167	11.476	0.691	5.681	1.0000
1114	12.660	12.132	0.528	4.169	1.0000
1115	12.126	12.347	-0.221	1.820	1.0000
1118	13.076	11.898	1.178	9.007	0.7838
1119	11.935	12.176	-0.241	2.015	1.0000
1121	12.748	11.752	0.996	7.816	0.9264
1123	13.534	12.438	1.095	8.093	0.8428
1124	12.603	11.513	1.090	8.652	0.8466
1126	11.558	11.821	-0.264	2.281	1.0000
1127	11.875	11.664	0.211	1.780	1.0000
1128	12.258	12.416	-0.157	1.281	1.0000
1129	11.476	11.902	-0.426	3.708	1.0000
1130	12.735	11.763	0.972	7.633	0.9496
1131	12.366	12.258	0.108	0.873	1.0000

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1133	12.051	11.968	0.083	0.688	1.0000
1135	12.462	12.376	0.086	0.690	1.0000
1139	13.193	12.097	1.096	8.306	0.8424
1141	11.815	11.137	0.679	5.746	1.0000
1144	12.117	11.912	0.205	1.690	1.0000
1147	12.987	12.287	0.700	5.394	1.0000
1148	13.832	12.254	1.578	11.407	0.5851
1150	11.127	11.238	-0.110	0.993	1.0000
1151	11.800	11.581	0.219	1.859	1.0000
1154	10.952	11.643	-0.691	6.314	1.0000
1157	12.016	12.243	-0.227	1.889	1.0000
1159	12.429	12.230	0.200	1.606	1.0000
1163	11.803	12.003	-0.200	1.691	1.0000
1165	11.163	11.719	-0.555	4.974	1.0000
1168	12.424	11.659	0.764	6.153	1.0000
1169	12.419	12.207	0.211	1.703	1.0000
1172	13.582	12.198	1.384	10.192	0.6668
1174	11.589	11.743	-0.154	1.331	1.0000
1176	12.642	12.033	0.609	4.817	1.0000
1179	11.564	12.036	-0.472	4.081	1.0000
1181	13.033	11.995	1.037	7.959	0.8899
1183	12.596	12.032	0.564	4.474	1.0000
1185	13.288	12.634	0.654	4.925	1.0000
1186	12.665	12.177	0.488	3.853	1.0000
1187	12.532	12.352	0.180	1.439	1.0000
1190	11.580	10.754	0.826	7.135	1.0000
1191	11.099	11.469	-0.370	3.334	1.0000
1192	11.244	11.772	-0.528	4.699	1.0000
1193	11.817	12.465	-0.648	5.488	1.0000
1194	11.944	11.809	0.136	1.135	1.0000
1195	12.723	11.624	1.098	8.633	0.8404
1202	12.709	12.525	0.184	1.448	1.0000
1203	11.943	11.965	-0.022	0.185	1.0000
1204	9.881	10.487	-0.606	6.128	1.0000
1205	12.998	11.675	1.323	10.181	0.6976
1206	11.605	11.633	-0.028	0.244	1.0000
1207	10.750	11.614	-0.864	8.037	1.0000
1212	11.166	11.385	-0.219	1.965	1.0000
1215	11.563	12.044	-0.481	4.160	1.0000
1216	12.842	11.889	0.953	7.423	0.9684
1217	12.104	11.351	0.753	6.221	1.0000
1219	12.813	12.445	0.368	2.874	1.0000
1221	11.754	11.590	0.165	1.401	1.0000
1225	12.003	11.871	0.132	1.101	1.0000
1226	13.381	11.762	1.619	12.097	0.5703
1227	12.405	12.305	0.099	0.800	1.0000
1228	12.443	11.762	0.681	5.470	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1230	10.362	11.326	-0.964	9.307	0.9572
1234	12.572	11.997	0.574	4.569	1.0000
1235	12.617	12.458	0.159	1.263	1.0000
1236	12.931	12.086	0.846	6.539	1.0000
1237	11.994	11.942	0.052	0.434	1.0000
1240	12.725	12.612	0.113	0.888	1.0000
1241	13.157	12.329	0.828	6.292	1.0000
1242	13.155	12.329	0.826	6.282	1.0000
1243	11.644	12.392	-0.748	6.424	1.0000
1244	11.979	12.163	-0.184	1.538	1.0000
1247	10.925	11.424	-0.499	4.566	1.0000
1248	11.713	11.756	-0.043	0.366	1.0000
1250	12.826	11.699	1.127	8.783	0.8194
1254	12.554	12.122	0.432	3.438	1.0000
1257	11.925	12.112	-0.187	1.567	1.0000
1269	12.119	11.854	0.265	2.188	1.0000
1270	12.801	12.252	0.550	4.293	1.0000
1271	12.931	12.074	0.856	6.623	1.0000
1272	10.769	11.871	-1.101	10.228	0.8381
1276	10.604	10.862	-0.258	2.431	1.0000
1277	11.774	11.448	0.326	2.770	1.0000
1280	12.022	11.361	0.661	5.496	1.0000
1281	12.656	12.431	0.225	1.774	1.0000
1284	10.604	11.056	-0.452	4.263	1.0000
1285	11.071	11.156	-0.085	0.766	1.0000
1287	10.373	12.011	-1.638	15.790	0.5636
1290	12.884	12.389	0.495	3.841	1.0000
1292	13.109	12.294	0.814	6.212	1.0000
1302	12.528	12.470	0.058	0.460	1.0000
1303	12.364	12.220	0.143	1.159	1.0000
1305	11.370	11.615	-0.245	2.152	1.0000
1306	12.043	11.962	0.080	0.665	1.0000
1308	11.872	11.777	0.094	0.793	1.0000
1310	11.470	12.105	-0.635	5.536	1.0000
1311	12.189	11.797	0.392	3.212	1.0000
1313	12.201	11.802	0.400	3.277	1.0000
1315	12.158	12.594	-0.435	3.581	1.0000
1316	12.598	12.195	0.404	3.204	1.0000
1317	12.284	12.022	0.262	2.134	1.0000
1318	12.742	12.359	0.382	3.002	1.0000
1321	12.907	12.124	0.783	6.066	1.0000
1324	12.414	11.656	0.757	6.102	1.0000
1325	12.858	12.429	0.429	3.333	1.0000
1326	11.966	11.262	0.704	5.884	1.0000
1329	9.693	10.596	-0.903	9.318	1.0000
1332	10.455	12.496	-2.041	19.522	0.4523
1334	11.976	12.248	-0.272	2.271	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1336	12.343	12.130	0.213	1.724	1.0000
1338	11.108	11.271	-0.163	1.465	1.0000
1340	10.676	11.893	-1.218	11.405	0.7581
1342	12.825	12.766	0.059	0.461	1.0000
1346	11.809	11.861	-0.053	0.445	1.0000
1351	11.451	11.629	-0.178	1.554	1.0000
1352	12.573	11.919	0.654	5.199	1.0000
1355	11.455	11.750	-0.295	2.574	1.0000
1357	11.397	11.672	-0.274	2.408	1.0000
1359	12.636	12.148	0.488	3.865	1.0000
1360	11.950	11.880	0.070	0.582	1.0000
1361	11.285	11.870	-0.586	5.191	1.0000
1362	12.961	12.244	0.717	5.532	1.0000
1365	12.410	12.267	0.143	1.150	1.0000
1367	12.638	11.986	0.652	5.161	1.0000
1374	12.307	11.727	0.580	4.711	1.0000
1377	13.037	12.671	0.366	2.806	1.0000
1380	12.369	11.648	0.721	5.832	1.0000
1382	13.176	12.299	0.877	6.655	1.0000
1383	12.527	12.307	0.219	1.750	1.0000
1385	12.398	12.632	-0.234	1.886	1.0000
1386	12.240	12.309	-0.069	0.563	1.0000
1387	12.390	12.070	0.320	2.581	1.0000
1388	11.839	11.905	-0.065	0.551	1.0000
1389	10.923	11.613	-0.690	6.320	1.0000
1395	12.367	11.961	0.406	3.283	1.0000
1396	12.814	12.778	0.036	0.284	1.0000
1400	12.267	12.285	-0.018	0.144	1.0000
1405	12.523	11.860	0.663	5.297	1.0000
1406	12.905	11.633	1.272	9.855	0.7259
1407	12.658	12.202	0.456	3.601	1.0000
1408	12.542	12.284	0.258	2.058	1.0000
1411	12.849	12.380	0.469	3.649	1.0000
1413	11.522	11.409	0.113	0.981	1.0000
1414	12.255	12.023	0.232	1.892	1.0000
1416	11.076	12.229	-1.153	10.408	0.8007
1418	12.080	11.421	0.659	5.457	1.0000
1419	12.303	12.726	-0.423	3.439	1.0000
1426	11.965	11.762	0.203	1.693	1.0000
1427	9.942	10.930	-0.987	9.932	0.9348
1430	12.668	11.978	0.690	5.446	1.0000
1431	10.296	10.815	-0.519	5.043	1.0000
1433	11.970	12.603	-0.633	5.292	1.0000
1439	11.457	11.799	-0.343	2.990	1.0000
1440	11.772	11.986	-0.214	1.817	1.0000
1441	11.079	10.874	0.205	1.853	1.0000
1442	12.330	12.162	0.167	1.359	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1444	12.466	12.105	0.361	2.898	1.0000
1446	13.123	12.837	0.286	2.180	1.0000
1448	12.665	12.317	0.348	2.748	1.0000
1451	12.150	11.993	0.157	1.292	1.0000
1452	11.892	11.779	0.112	0.946	1.0000
1455	11.116	11.992	-0.876	7.877	1.0000
1457	11.757	11.491	0.266	2.263	1.0000
1458	11.805	11.566	0.240	2.030	1.0000
1461	12.445	12.154	0.291	2.338	1.0000
1469	12.080	12.479	-0.400	3.311	1.0000
1470	12.579	12.226	0.353	2.803	1.0000
1472	13.722	12.445	1.277	9.303	0.7231
1473	11.704	12.006	-0.302	2.584	1.0000
1477	12.192	11.839	0.353	2.896	1.0000
1479	12.499	11.937	0.563	4.501	1.0000
1480	11.874	11.645	0.230	1.933	1.0000
1483	11.745	11.798	-0.052	0.445	1.0000
1485	12.499	12.093	0.407	3.254	1.0000
1487	12.102	11.870	0.232	1.914	1.0000
1489	13.108	11.961	1.147	8.750	0.8048
1490	12.852	11.850	1.002	7.799	0.9209
1491	11.639	11.379	0.259	2.228	1.0000
1496	11.857	11.475	0.382	3.220	1.0000
1498	12.368	12.620	-0.252	2.034	1.0000
1500	11.074	11.917	-0.844	7.618	1.0000
1502	11.823	12.079	-0.256	2.163	1.0000
1503	12.203	12.486	-0.283	2.317	1.0000
1504	12.411	11.873	0.539	4.339	1.0000
1505	13.006	11.662	1.343	10.328	0.6872
1507	12.940	12.374	0.565	4.370	1.0000
1512	13.822	11.873	1.950	14.106	0.4734
1514	11.439	11.399	0.040	0.350	1.0000
1516	11.732	11.793	-0.062	0.525	1.0000
1517	12.188	11.651	0.538	4.411	1.0000
1518	12.066	12.527	-0.460	3.816	1.0000
1519	12.117	11.715	0.402	3.317	1.0000
1520	10.864	12.468	-1.604	14.767	0.5754
1522	11.888	11.632	0.255	2.148	1.0000
1528	12.722	12.153	0.570	4.477	1.0000
1529	11.479	11.945	-0.466	4.061	1.0000
1530	12.451	11.491	0.961	7.715	0.9610
1534	11.796	11.983	-0.186	1.580	1.0000
1539	12.354	11.716	0.638	5.162	1.0000
1540	12.281	12.229	0.052	0.421	1.0000
1541	12.216	12.938	-0.722	5.913	1.0000
1542	12.425	12.355	0.070	0.562	1.0000
1546	12.736	11.416	1.320	10.366	0.6992

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1547	11.089	11.609	-0.520	4.687	1.0000
1548	13.353	12.361	0.993	7.433	0.9300
1551	12.915	12.287	0.628	4.859	1.0000
1552	12.079	11.881	0.197	1.635	1.0000
1555	10.996	11.840	-0.844	7.677	1.0000
1556	11.281	11.966	-0.685	6.076	1.0000
1560	12.462	12.022	0.440	3.533	1.0000
1563	11.493	11.595	-0.101	0.882	1.0000
1565	11.802	12.296	-0.495	4.192	1.0000
1571	12.520	12.178	0.342	2.735	1.0000
1574	10.887	11.765	-0.878	8.069	1.0000
1578	12.382	11.687	0.695	5.616	1.0000
1579	12.447	11.732	0.715	5.746	1.0000
1580	11.591	11.460	0.131	1.134	1.0000
1582	10.575	11.702	-1.127	10.653	0.8194
1585	11.531	12.397	-0.866	7.514	1.0000
1587	11.688	11.115	0.573	4.901	1.0000
1588	12.882	12.077	0.805	6.250	1.0000
1591	11.005	11.276	-0.270	2.456	1.0000
1592	11.106	12.092	-0.986	8.877	0.9363
1593	11.434	11.845	-0.410	3.589	1.0000
1594	12.183	12.120	0.063	0.520	1.0000
1595	11.046	11.831	-0.785	7.108	1.0000
1597	11.810	11.679	0.131	1.112	1.0000
1601	12.533	11.990	0.543	4.333	1.0000
1608	12.538	11.653	0.885	7.056	1.0000
1610	12.406	11.911	0.495	3.989	1.0000
1611	13.033	11.936	1.097	8.414	0.8418
1613	11.579	11.614	-0.035	0.306	1.0000
1615	10.888	11.339	-0.450	4.137	1.0000
1618	13.030	12.143	0.887	6.805	1.0000
1620	11.853	12.225	-0.372	3.135	1.0000
1621	11.956	11.747	0.209	1.747	1.0000
1622	12.398	11.801	0.597	4.816	1.0000
1623	12.050	10.916	1.133	9.406	0.8144
1626	11.348	11.270	0.078	0.685	1.0000
1628	11.929	12.065	-0.136	1.142	1.0000
1629	12.771	11.349	1.423	11.139	0.6489
1630	13.026	12.639	0.387	2.970	1.0000
1632	12.684	12.772	-0.088	0.691	1.0000
1633	11.206	12.069	-0.862	7.695	1.0000
1634	12.339	12.531	-0.192	1.554	1.0000
1636	11.763	11.744	0.019	0.161	1.0000
1638	12.761	11.939	0.822	6.445	1.0000
1640	12.718	11.498	1.220	9.590	0.7569
1641	11.983	12.300	-0.316	2.641	1.0000
1642	10.984	11.854	-0.870	7.919	1.0000

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 Dependent Ln_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1645	11.756	11.427	0.328	2.792	1.0000
1648	12.116	11.863	0.253	2.089	1.0000
1653	11.089	11.947	-0.857	7.731	1.0000
1654	11.511	11.636	-0.124	1.079	1.0000
1655	13.139	12.511	0.628	4.778	1.0000
1656	12.261	12.581	-0.320	2.614	1.0000
1658	13.650	12.462	1.188	8.704	0.7770
1660	11.567	11.542	0.026	0.221	1.0000
1661	12.173	12.164	0.009	0.073	1.0000
1662	12.423	11.923	0.500	4.025	1.0000
1663	11.137	11.641	-0.504	4.527	1.0000
1665	11.422	12.104	-0.682	5.970	1.0000
1666	12.471	11.765	0.706	5.662	1.0000
1667	12.860	11.816	1.044	8.117	0.8844
1668	12.939	12.508	0.431	3.330	1.0000
1674	12.850	12.382	0.468	3.643	1.0000
1675	12.933	12.536	0.397	3.069	1.0000
1679	12.307	11.780	0.527	4.279	1.0000
1683	12.260	11.794	0.466	3.803	1.0000
1685	10.730	11.708	-0.978	9.116	0.9437
1686	12.564	12.374	0.190	1.511	1.0000
1687	12.577	12.332	0.245	1.949	1.0000
1689	11.811	12.012	-0.201	1.699	1.0000
1692	12.990	12.373	0.618	4.754	1.0000
1693	10.806	10.782	0.024	0.224	1.0000
1694	11.737	11.741	-0.004	0.034	1.0000
1696	11.126	11.601	-0.475	4.269	1.0000
1697	12.434	12.232	0.202	1.625	1.0000
1699	12.648	12.036	0.612	4.838	1.0000
1702	11.306	11.783	-0.477	4.220	1.0000
1703	11.615	10.891	0.725	6.238	1.0000
1704	9.925	11.586	-1.661	16.732	0.5559
1708	11.682	11.596	0.086	0.733	1.0000
1709	12.861	11.543	1.318	10.249	0.7003
1713	11.109	11.684	-0.575	5.176	1.0000
1715	10.954	11.776	-0.823	7.513	1.0000
1717	12.630	12.039	0.591	4.680	1.0000
1719	11.767	11.847	-0.080	0.678	1.0000
1720	12.648	11.850	0.798	6.308	1.0000
1722	11.340	11.619	-0.279	2.464	1.0000
1725	10.741	11.509	-0.767	7.143	1.0000
1727	11.823	12.221	-0.397	3.362	1.0000
1732	12.778	12.345	0.434	3.393	1.0000
1734	11.862	12.018	-0.156	1.316	1.0000
1735	11.953	11.907	0.046	0.386	1.0000
1738	12.149	11.503	0.646	5.321	1.0000
1740	11.795	11.929	-0.134	1.137	1.0000

Robust Multiple Regression Report

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 Dependent Ln_Sale_Price

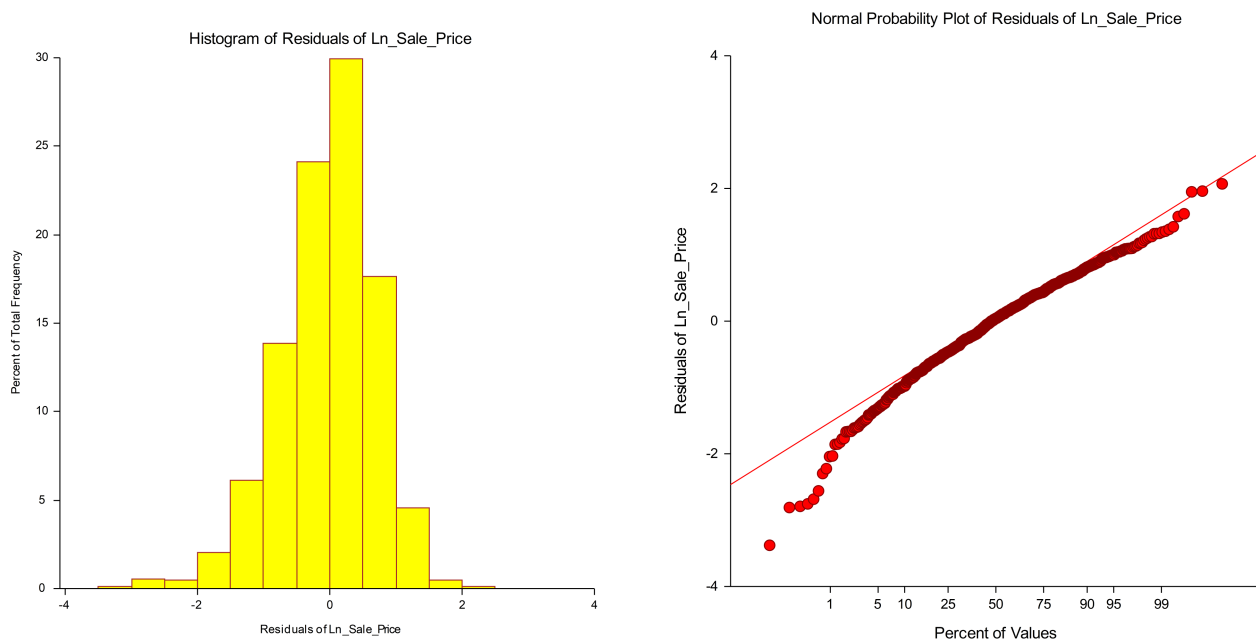
Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1743	11.586	11.539	0.047	0.403	1.0000
1745	11.113	11.332	-0.218	1.966	1.0000
1747	12.084	12.030	0.054	0.448	1.0000
1749	11.021	11.675	-0.654	5.936	1.0000
1750	12.761	12.122	0.639	5.008	1.0000
1751	11.583	12.461	-0.879	7.586	1.0000
1752	12.523	12.245	0.278	2.216	1.0000
1754	12.850	12.169	0.681	5.297	1.0000
1757	12.078	12.308	-0.230	1.904	1.0000
1758	12.005	12.248	-0.243	2.027	1.0000
1759	12.815	11.773	1.043	8.137	0.8852
1762	10.605	11.845	-1.240	11.693	0.7444
1764	11.869	10.883	0.986	8.307	0.9362
1773	12.641	12.309	0.332	2.624	1.0000
1777	12.737	12.175	0.561	4.406	1.0000
1780	11.326	11.308	0.018	0.155	1.0000
1781	11.180	11.579	-0.399	3.568	1.0000
1785	12.219	12.033	0.185	1.518	1.0000
1786	12.688	12.160	0.528	4.158	1.0000
1787	12.005	11.778	0.228	1.896	1.0000
1790	11.105	11.924	-0.819	7.378	1.0000
1793	12.320	11.244	1.076	8.734	0.8579
1795	11.481	10.961	0.520	4.526	1.0000
1798	11.657	11.764	-0.107	0.915	1.0000
1800	11.254	11.878	-0.624	5.547	1.0000
1801	12.836	11.747	1.090	8.488	0.8472
1802	11.110	10.702	0.408	3.670	1.0000
1805	12.690	12.380	0.310	2.440	1.0000
1806	12.381	12.172	0.209	1.687	1.0000
1809	12.968	11.923	1.045	8.057	0.8835
1810	12.562	12.122	0.440	3.500	1.0000
1812	11.994	11.555	0.439	3.658	1.0000
1815	11.635	11.719	-0.084	0.725	1.0000

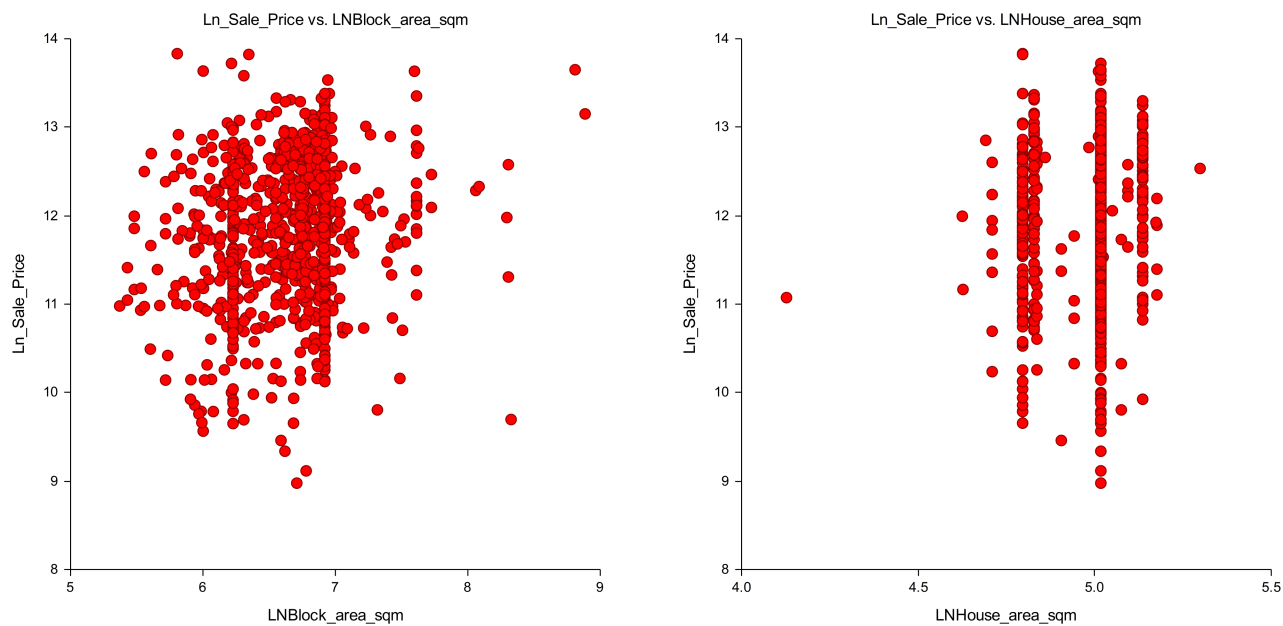
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Distributional Plots of Residuals

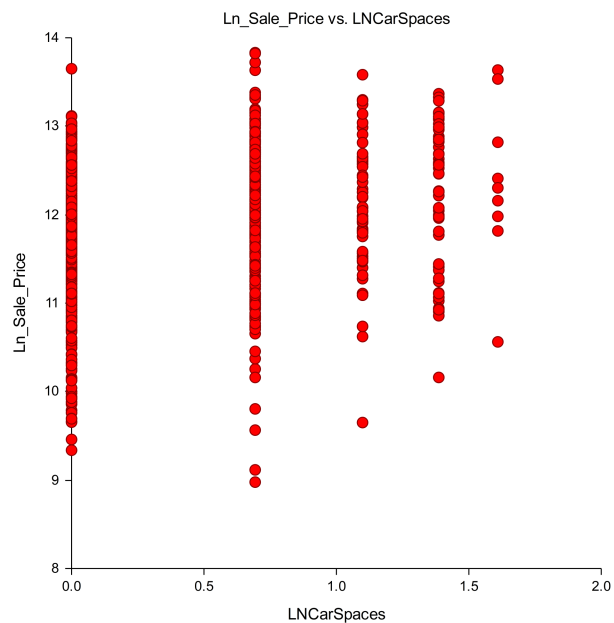
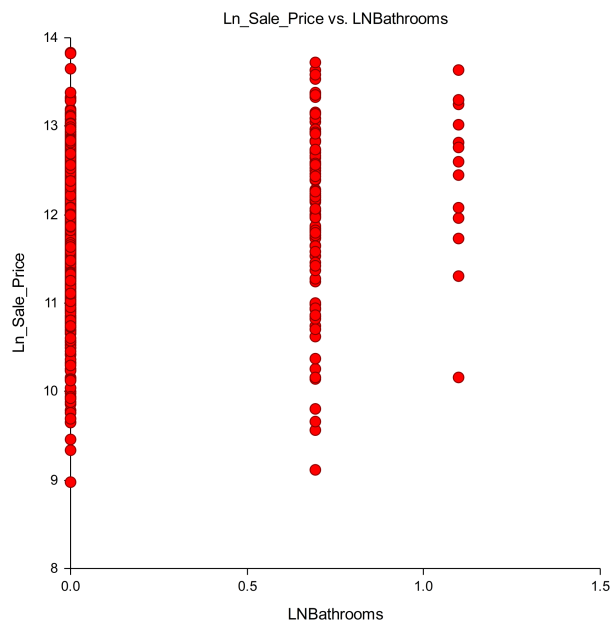
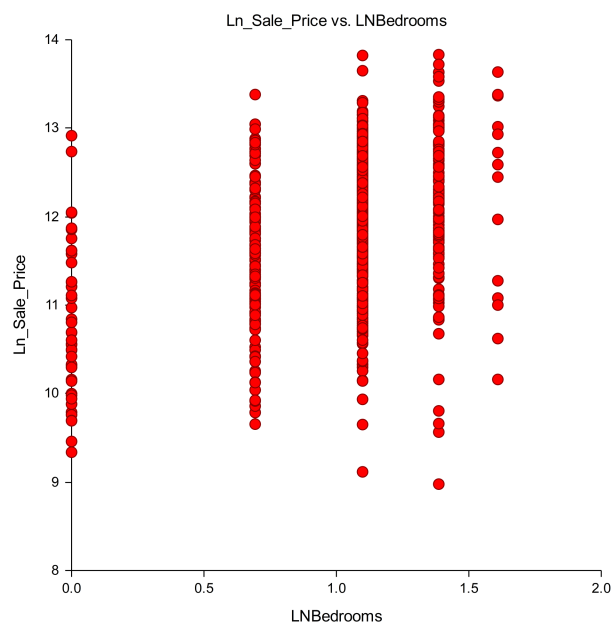
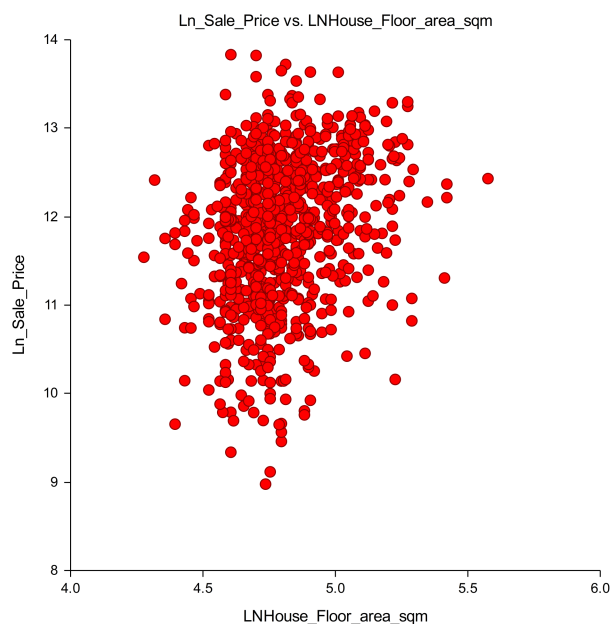


Y vs X Plots



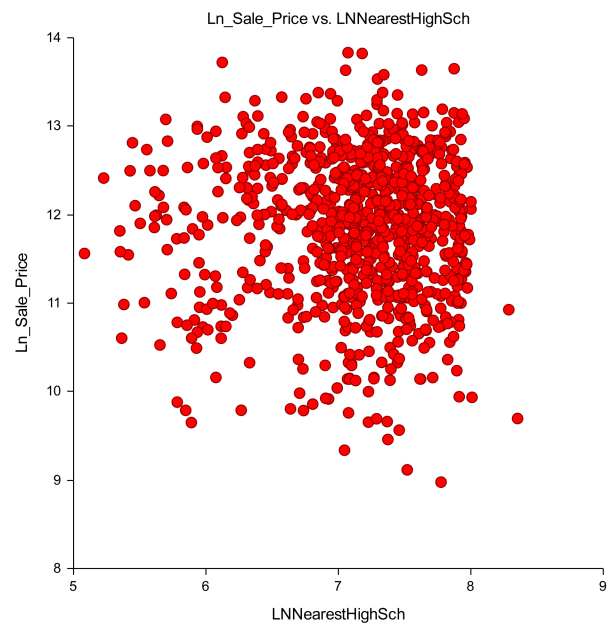
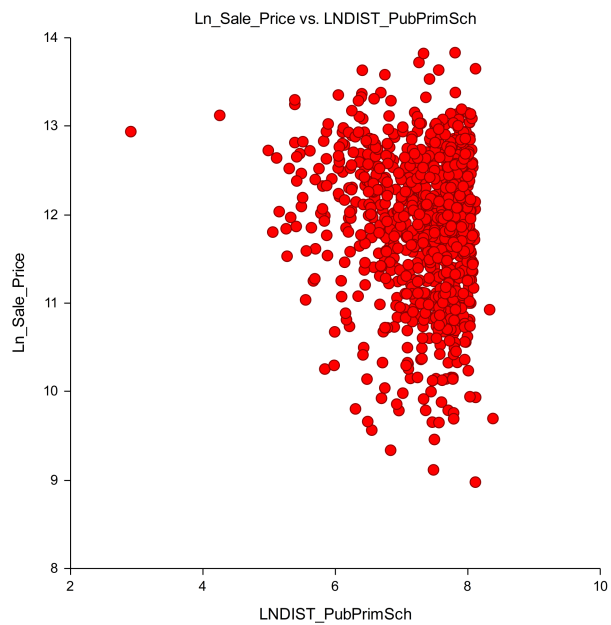
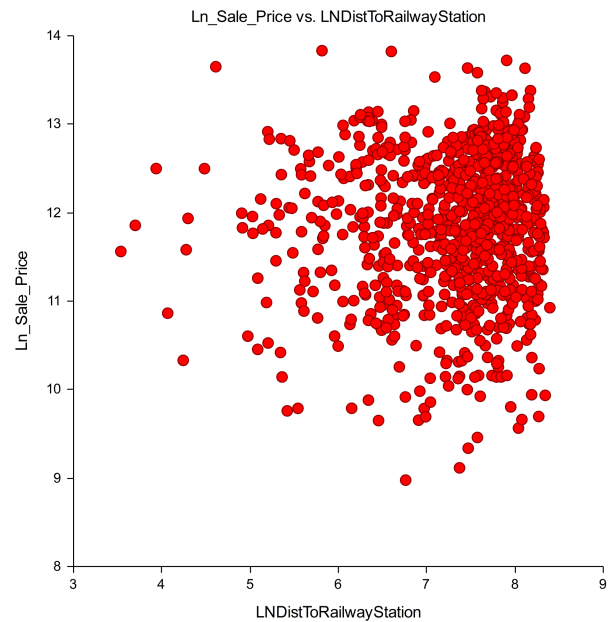
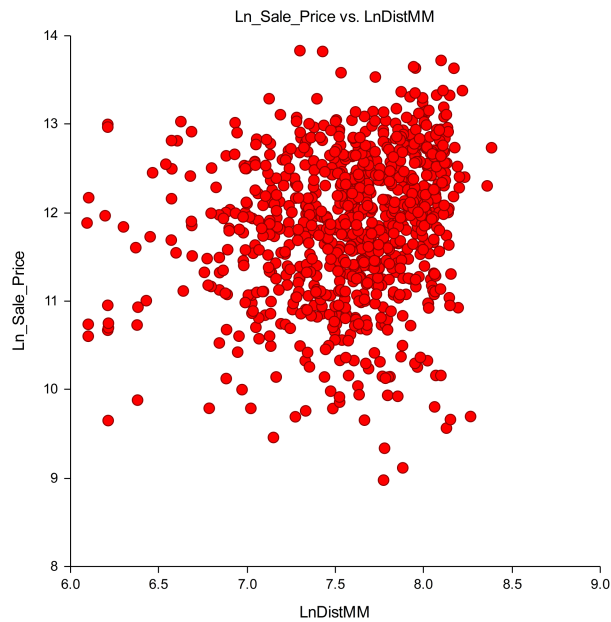
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Y vs X Plots (Continued)

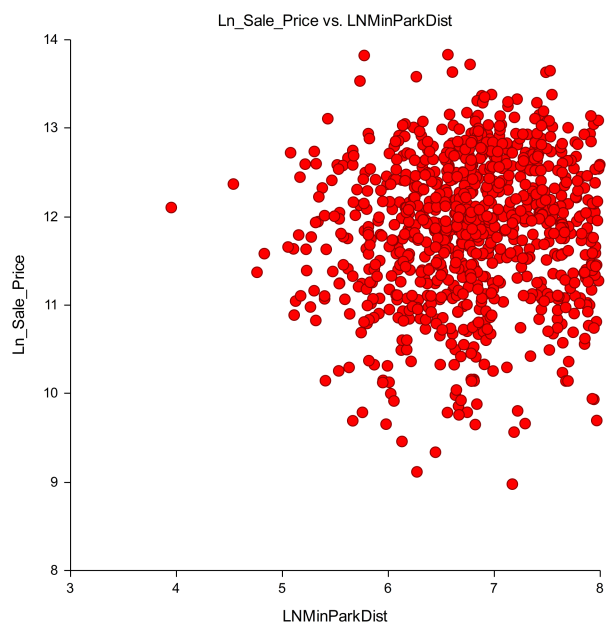
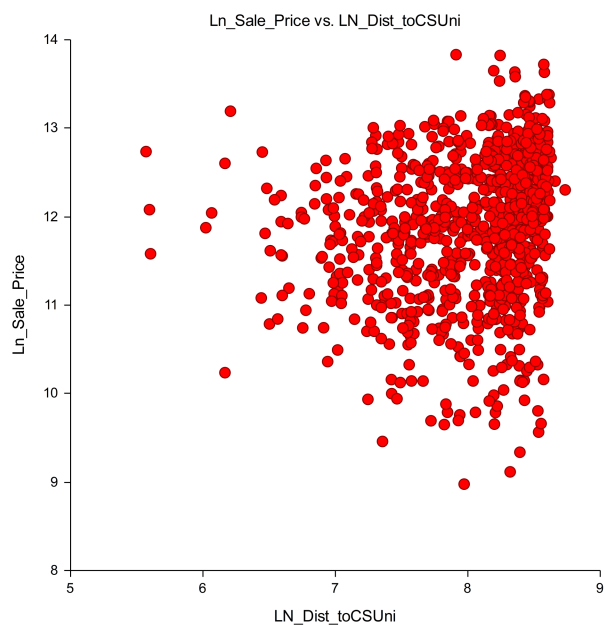
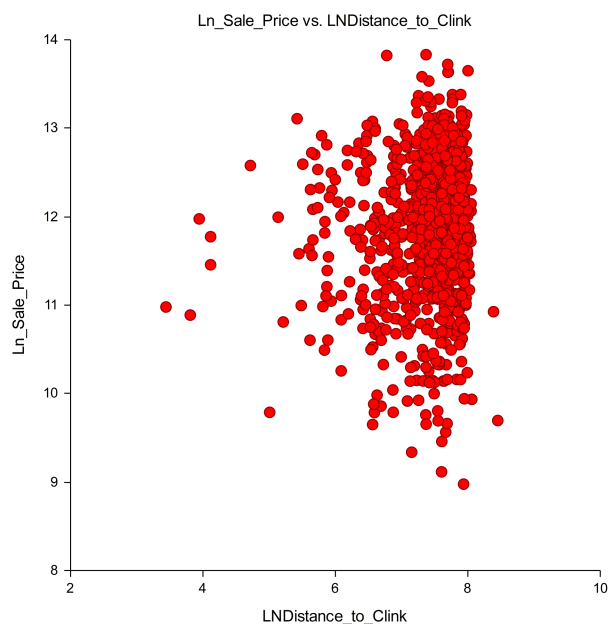
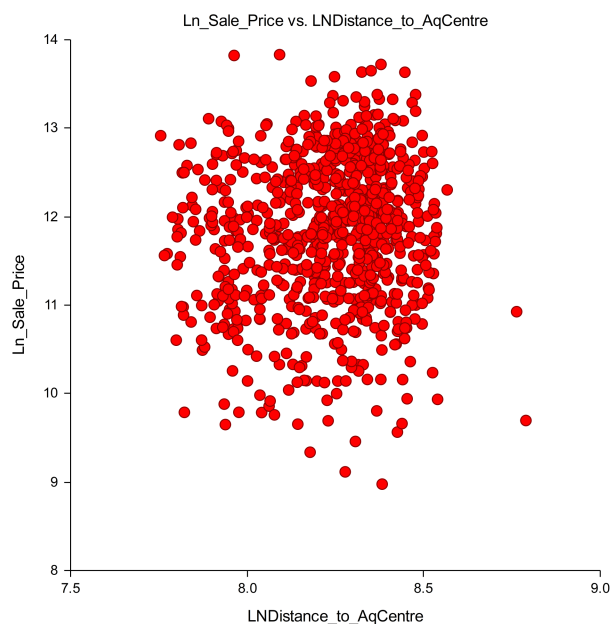
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Y vs X Plots (Continued)

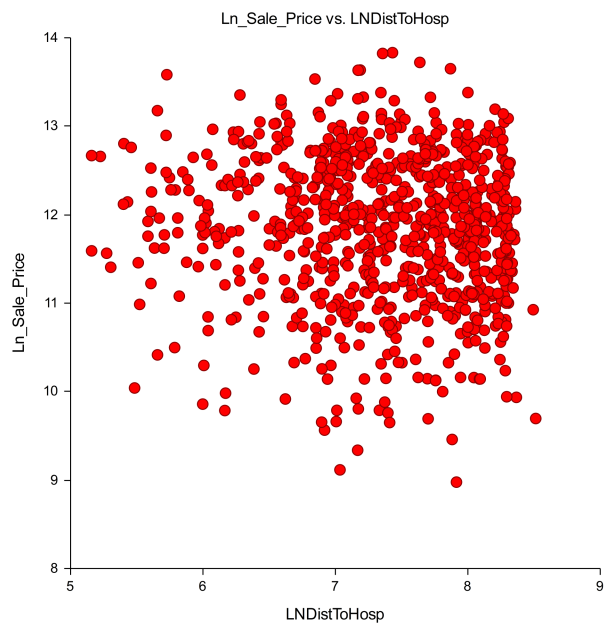
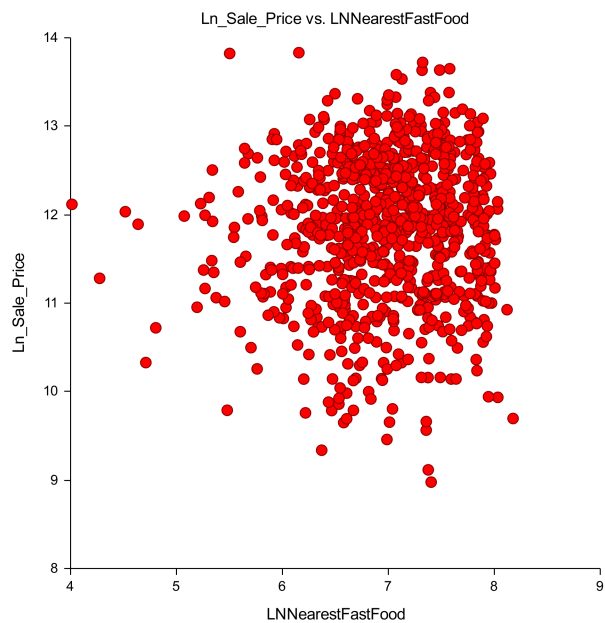
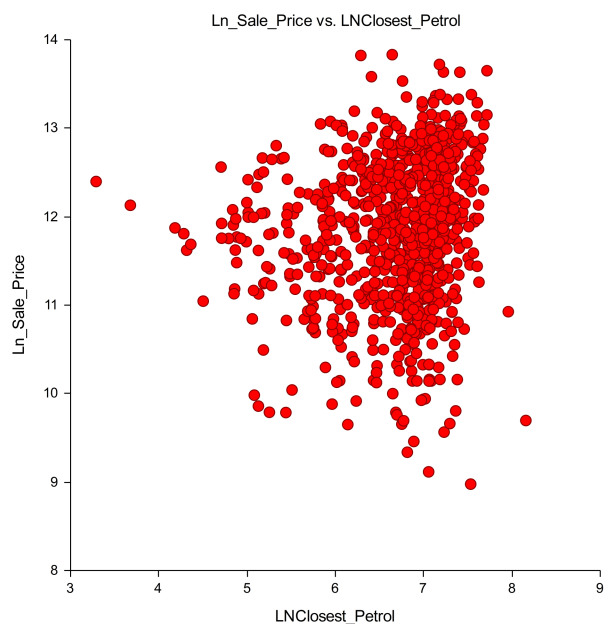
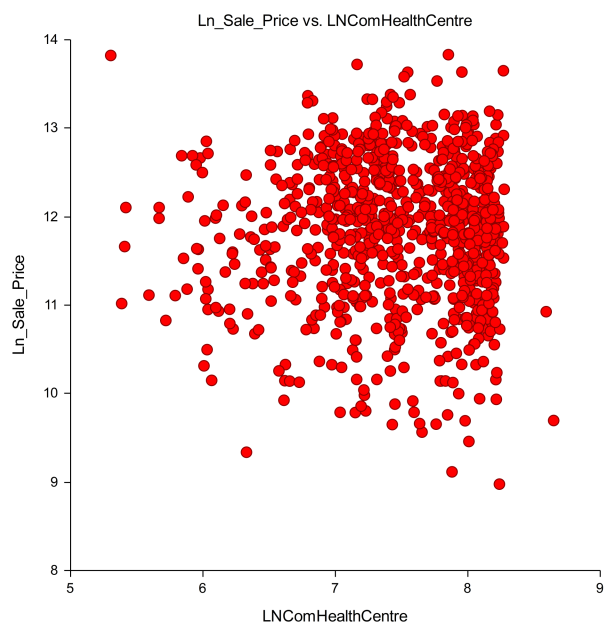
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Y vs X Plots (Continued)

Robust Multiple Regression Report

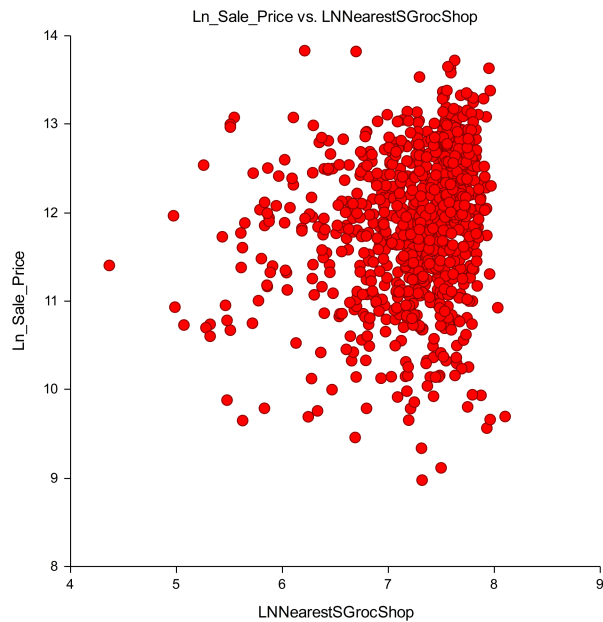
Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Y vs X Plots (Continued)

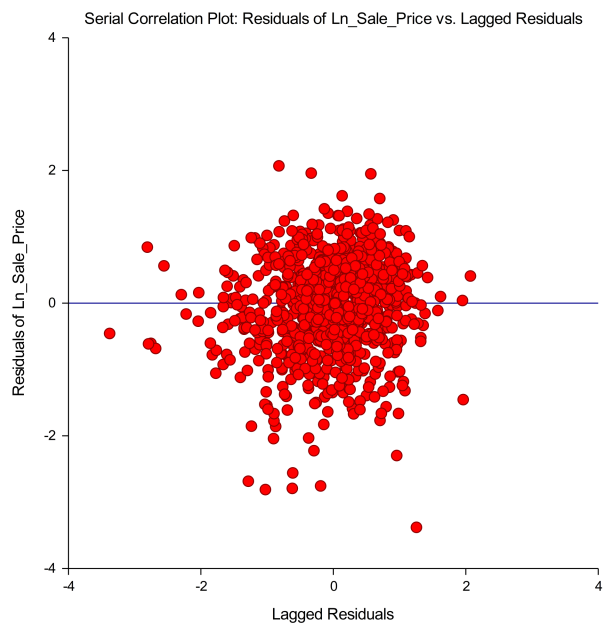
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Y vs X Plots (Continued)



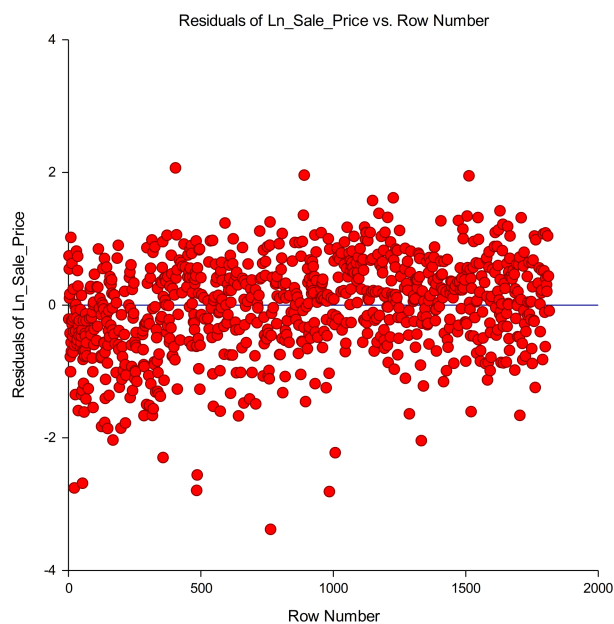
Serial Correlation Plot: Residuals vs Lagged Residuals



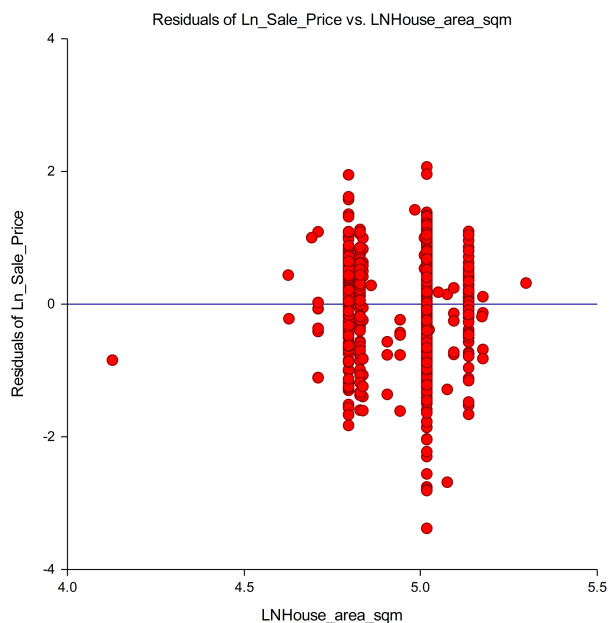
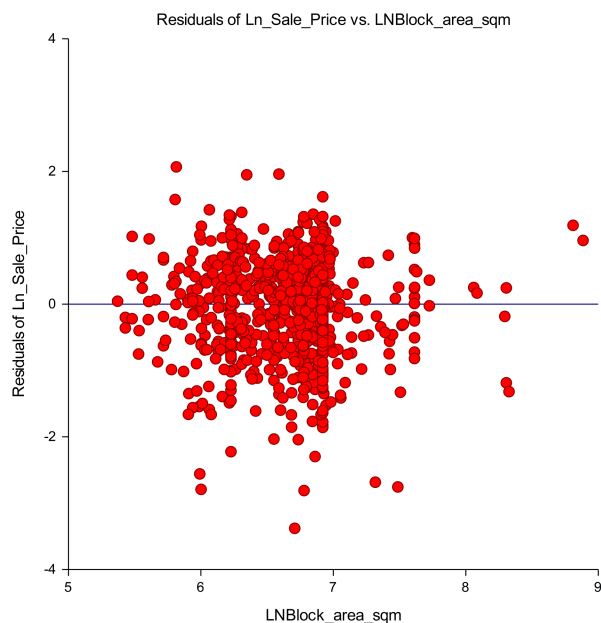
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Sequence Plot: Residuals vs Row

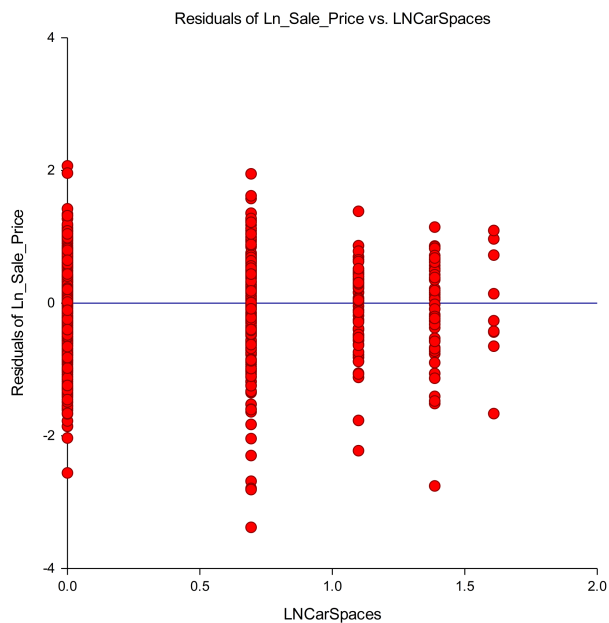
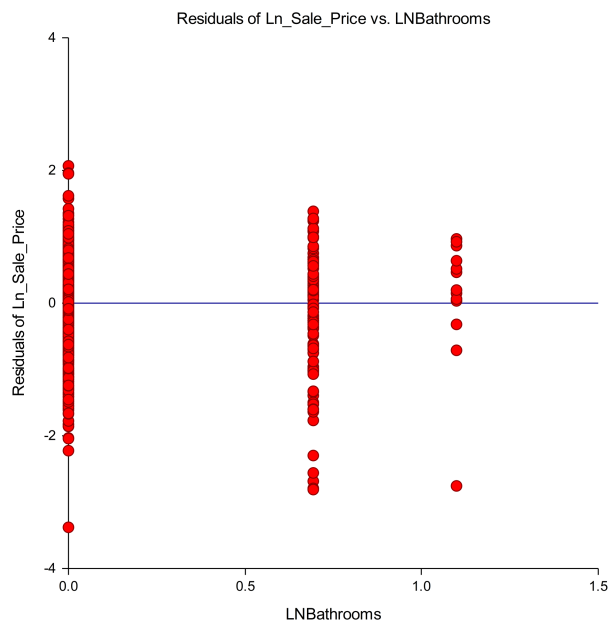
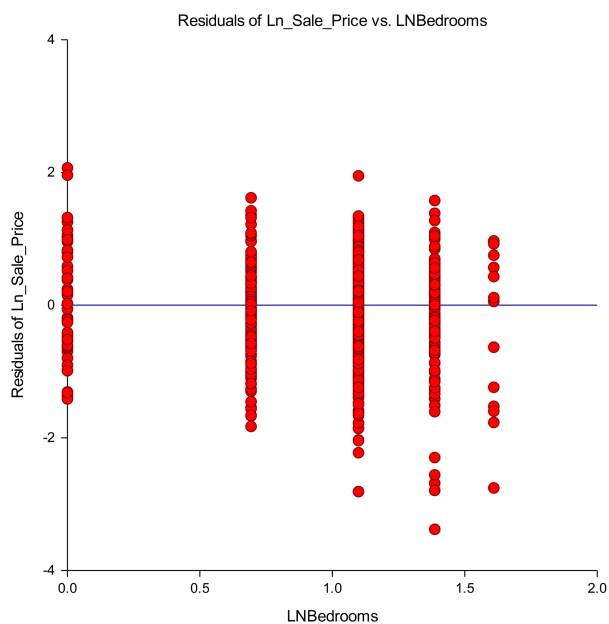
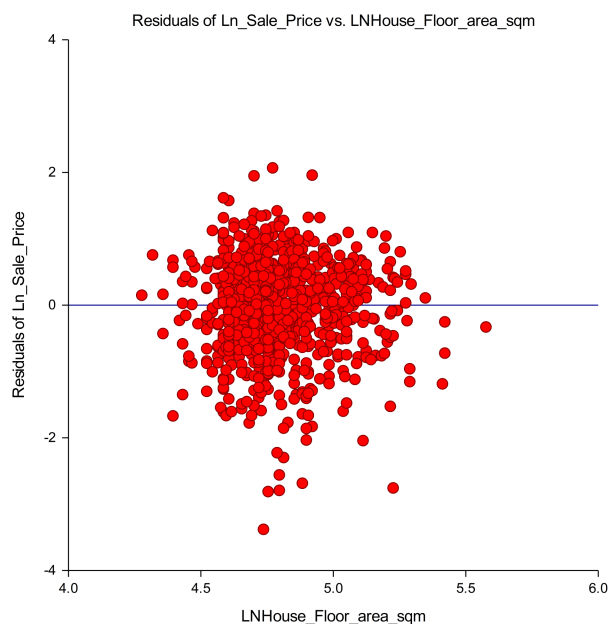


Residuals vs X Plots



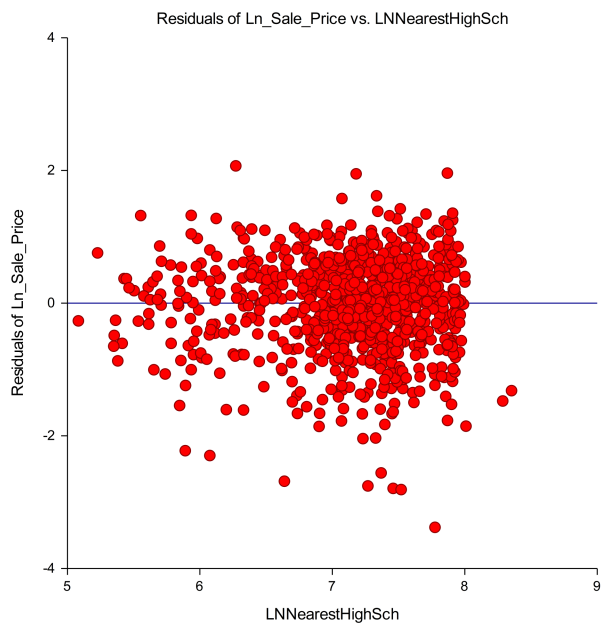
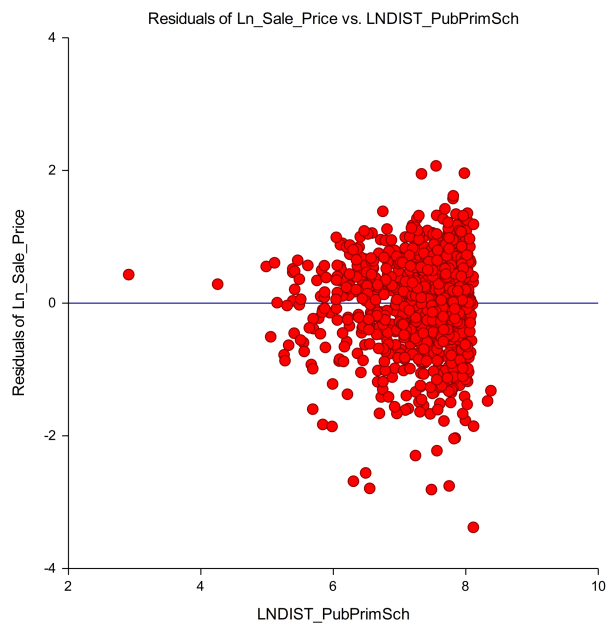
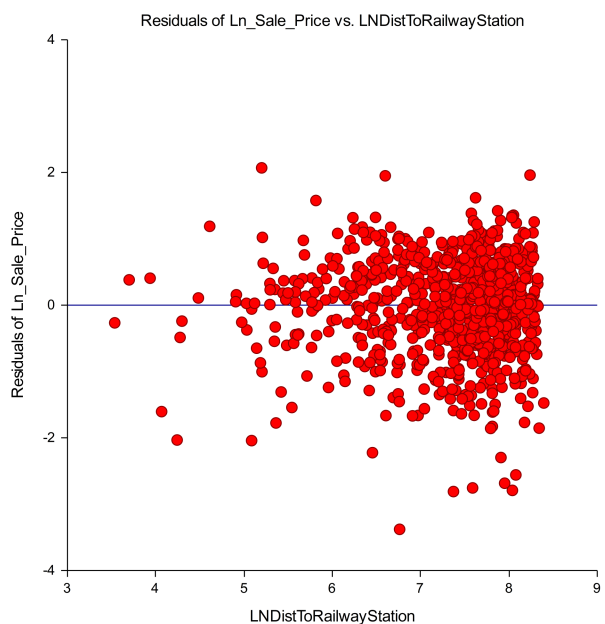
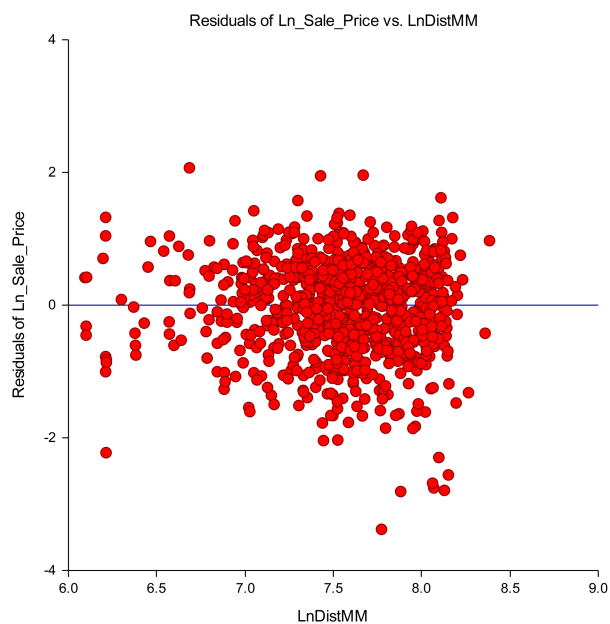
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Residuals vs X Plots (Continued)

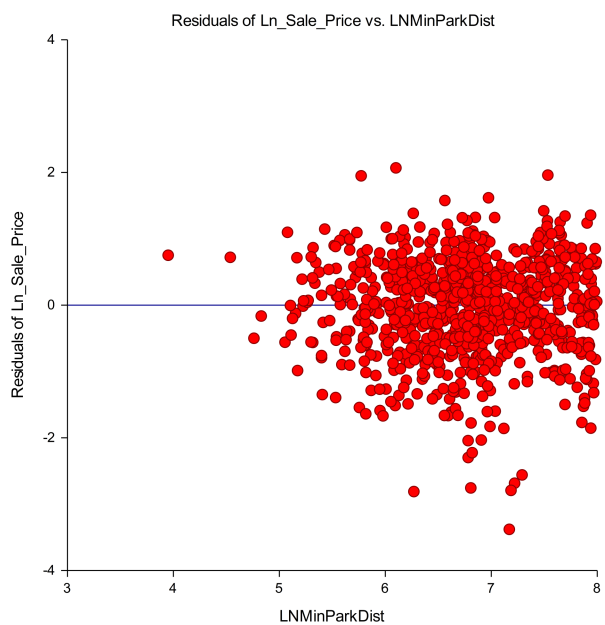
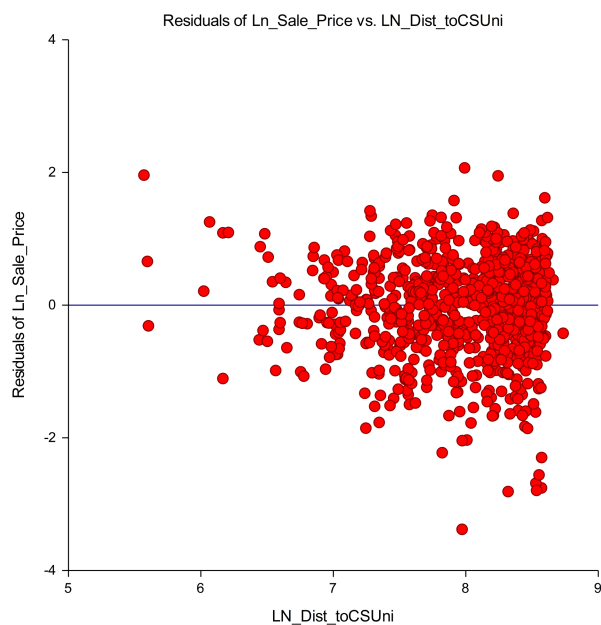
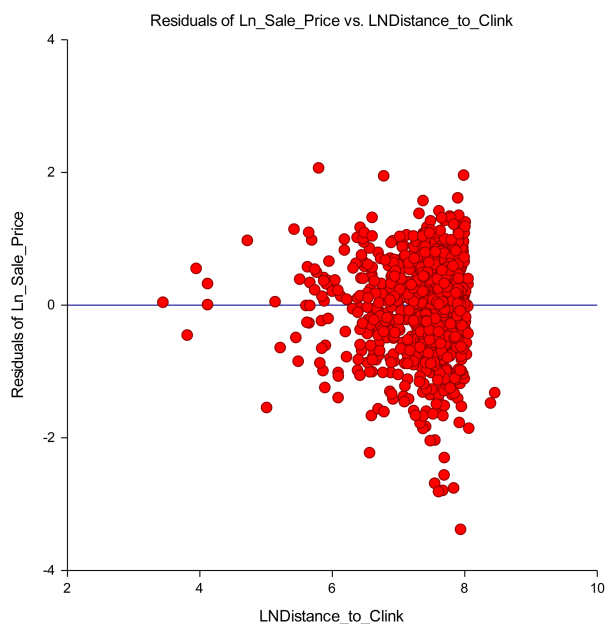
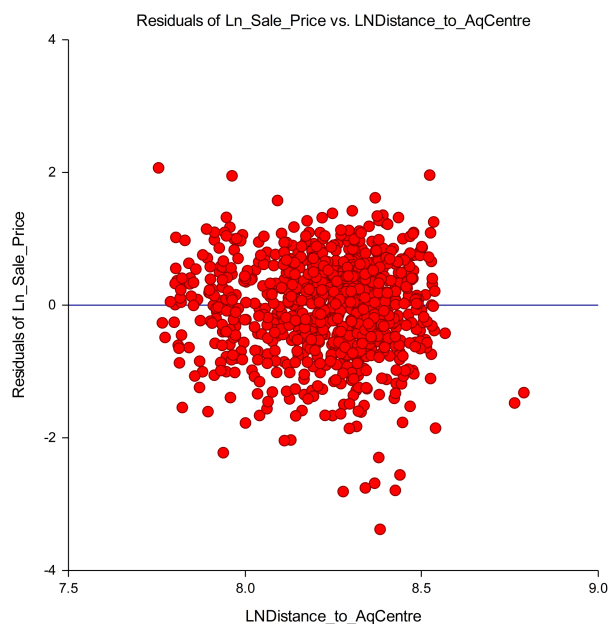
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Residuals vs X Plots (Continued)

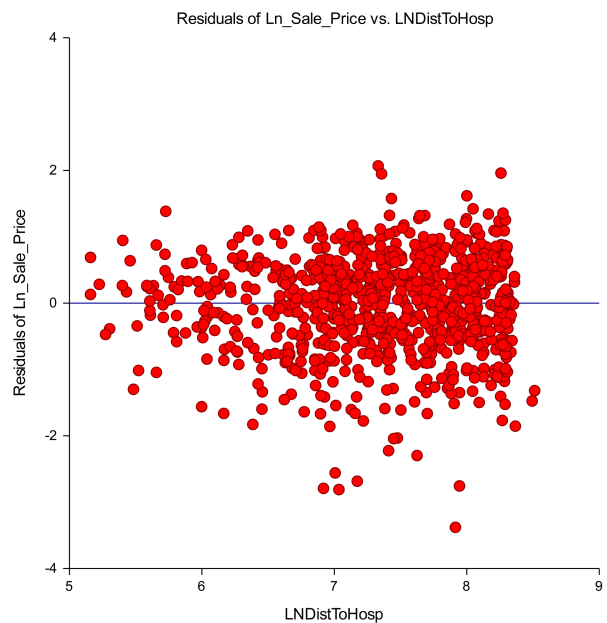
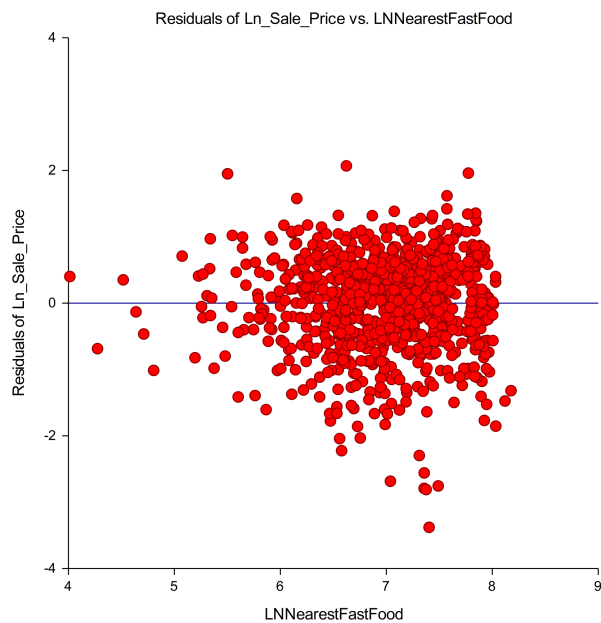
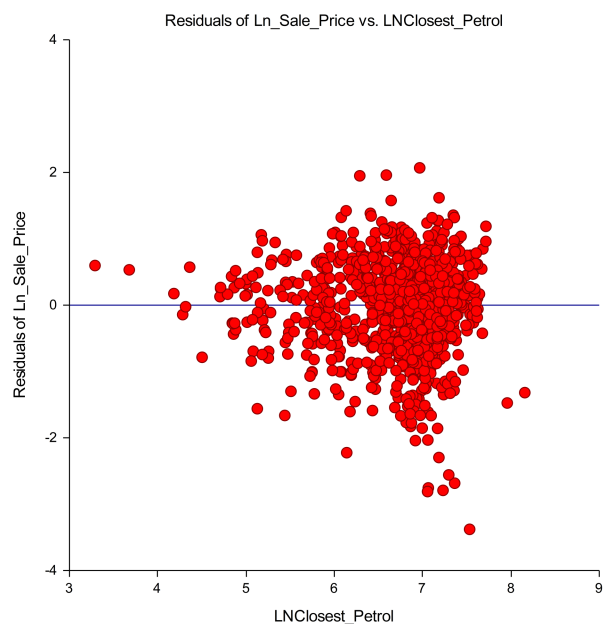
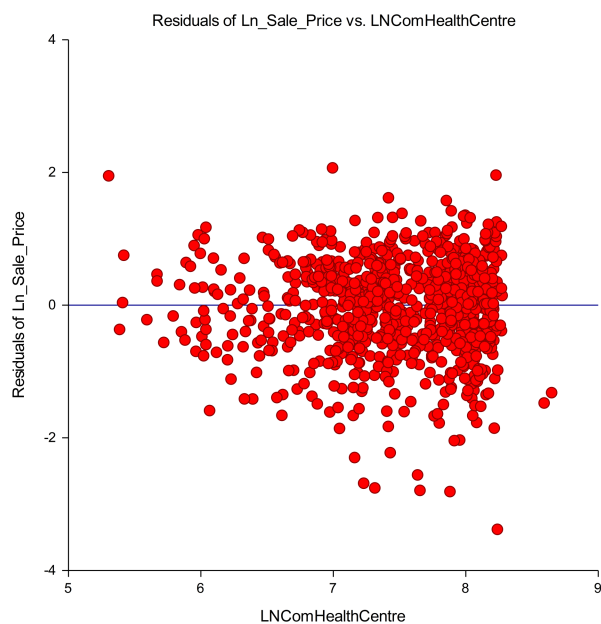
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Ln_Sale_Price

Residuals vs X Plots (Continued)

Robust Multiple Regression Report

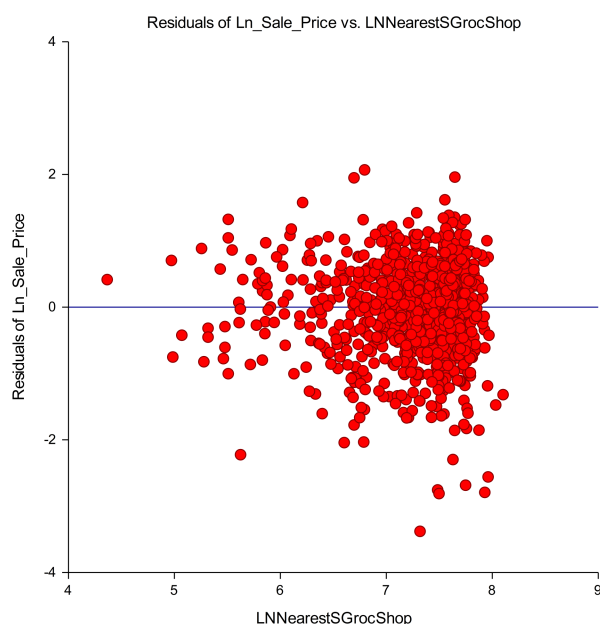
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Dependent Ln_Sale_Price

Residuals vs X Plots (Continued)

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Residuals vs X Plots (Continued)



Procedure Input Settings

Autosaved Template File

C:\Users\Dr_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved
 2023_4_11-13_58_39.t158

Variables, Model Tab

-- Variables -----	
Y:	Ln_Sale_Price
Numeric X's:	LNBlock_area_sqm, LNHouse_area_sqm, LNHouse_Floor_area_sqm, LNBedrooms, LNBathrooms, LNCarSpaces, LnDistMM, LNDistToRailwayStation, LNDIST_PubPrimSch, LNNearestHighSch, LNDistance_to_AqCentre, LNDistance_to_Clink, LN_Dist_toCSUni, LNMinParkDist, LNComHealthCentre, LNClosest_Petrol, LNNearestFastFood, LNDistToHosp, LNNearestSGrocShop
Categorical X's:	<Empty>
Weights:	<Empty>
-- Regression Model -----	
Terms:	1-Way
Remove Intercept	Unchecked

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Procedure Input Settings (Continued)**Robust Tab**

-- Robust Regression Options -----
 .. Robust Method
 Robust Influence Function: Huber's Method
 Huber's Tuning Constant: 1.345
 .. Scale Factor
 MAD Scale Factor: 0.6745
 .. Stop Iterating When
 Maximum Percent Change in Beta Estimates is ≤: 0.001
 Number of Iterations is: 30

Reports Tab

-- Alphas and Confidence Levels -----
 Tests Alpha: 0.050
 Assumptions Alpha: 0.20
 Confidence Level: 95
 -- Select Reports -----
 .. Summaries
 Run Summary Checked
 Descriptive Statistics Checked
 Correlations Unchecked
 Iterations - Coefficients Checked
 Iterations - Residuals Checked
 .. Regression Coefficients
 Coef T-Tests|Fixed Wts Checked
 Coef T-Tests|Random Wts Checked
 Coef CI's|Fixed Wts Checked
 Coef CI's|Random Wts Checked
 Estimated Equation Checked
 Bootstrap CI's Unchecked
 .. ANOVA
 ANOVA Summary Checked
 ANOVA Detail Unchecked
 .. Assumptions
 PRESS Statistics Checked
 Normality Tests Checked
 Durbin-Watson Checked
 .. X Diagnostics
 R² Checked
 Variable Omission Checked
 Sum of Squares Checked
 Sequential Models Checked
 Multicollinearity Checked

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Procedure Input Settings (Continued)**Reports Tab (Continued)**

.. Eigenvalues	
Eigenvalues - Centered	Unchecked
Eigenvectors - Centered	Unchecked
Eigenvalues - Uncentered	Unchecked
Eigenvectors - Uncentered	Unchecked
.. Row-by-Row Lists	
Show:	All Rows
Predicted for Means	Unchecked
Predicted for Individuals	Unchecked
Residuals	Unchecked
Regression Diagnostics	Unchecked
DFBETAS	Unchecked
Robust Residuals	Checked
Weight Cutoff:	1

Report Options Tab

-- Labels -----	
Stagger label and output if label length is ≥	15
-- Decimal Places -----	
Precision:	Double
Reg Coefficients:	5
Std Error of b's:	6
Test Statistics:	3
Probabilities:	4
Percentages:	3
Means:	3
Std Deviations:	3
R ² , Correlations, Standardized Coef's:	4
Mean Squares, Sum of Squares:	2
Y's, Residuals, etc.:	3
Std Error of Y:	3
Eigenvalues:	4
Eigenvectors:	4
Diagonal of X'X Inverse:	All

Plots Tab

-- Select Plots -----	
.. Distribution of Residuals	
Histogram	Checked
Probability Plot	Checked
.. Y vs X	
Y vs X	Checked

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Ln_Sale_Price

Procedure Input Settings (Continued)**Plots Tab (Continued)**

.. Residual Analysis Plots	
Serial Correlation	Checked
Resids vs Row	Checked
RStudent vs Hat	Unchecked
Resids vs Yhat	Unchecked
Resids vs X	Checked
RStudent vs X	Unchecked
Partial Resids vs X	Unchecked
.. Bootstrap Histograms	
Coefficient C.I.'s	Checked

Storage Tab

-- Select Items to Store with the Dataset -----	
.. Row-by-Row Items	
Predicted Y	Unchecked
Residuals	Unchecked
Standard Error of the Predicted Mean	Unchecked
Lower Confidence Limit of the Predicted Mean	Unchecked
Upper Confidence Limit of the Predicted Mean	Unchecked
Standard Error of a Predicted Individual	Unchecked
Lower Confidence Limit of a Predicted Individual	Unchecked
Upper Confidence Limit of a Predicted Individual	Unchecked
Rstudent	Unchecked
Hat Diagonals	Unchecked
CovRatio	Unchecked
Dffits	Unchecked
MSE(i)	Unchecked
Cook's D	Unchecked
Robust Weights	Unchecked
DFBETAS	Unchecked
.. Matrices	
X'X Inverse Matrix	Unchecked
VC(Betas) Matrix	Unchecked
Expanded X Matrix	Unchecked
.. Storage Options	
Storage Location:	In empty column(s) after the last column with data
Skip one or more columns before item storage	Unchecked
Rename the storage column(s) using the item name(s)	Checked
Add a Note about each stored item in the Column Info table	Checked
Overlay storage data when the Group By System is active	Unchecked