

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Run Summary Report

Item	Value	Rows	Value
Dependent Variable	Log_10_Sale_Price	Number Processed	1815
Number Ind. Variables	19	Number Used in Estimation	880
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	935
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	842.088
Run Information	Value		
Iterations	11		
Max % Change in any Coef	0.001		
R ² after Robust Weighting	0.2568		
S using MAD	0.34		
S using MSE	0.32		
Completion Status	Normal Completion		

Descriptive Statistics

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
Block_area_sqm	880	850.201	472.306	215	7224
House_area_sqm	880	145.545	14.435	62	200
House_Floor_area_sqm	880	123.013	23.460	0	264
Bedrooms	880	2.903	0.745	1	5
Bathrooms	880	1.151	0.389	1	3
Car_Spaces	880	1.650	0.901	1	5
DistanceMM	880	2083.208	718.484	442.898021	4376.363816
DistToRailwayStation	880	1873.584	1004.785	34.29750731	4422.740784
DIST_PubPrimSch	880	1750.058	832.137	18.34186983	4352.216985
NearestHighSch	880	1459.275	671.949	161.1115651	4242.345503
Distance_to_AqCentre	880	3821.524	627.551	2333.537576	6563.688285
Distance_to_Clink	880	1761.504	716.444	31.20377581	4681.149451
Dist_to_CSUni	880	3307.458	1331.147	262.4151884	6214.538493
MinParkDist	880	1078.497	686.586	51.96188407	2966.492051
ComHealthCentre	880	2032.452	972.986	201.0286832	5697.608351
Closest_petrol	880	927.552	451.473	26.82141689	3487.565228
NearestFastFood	880	1275.903	682.375	55.31352241	3557.359195
DistToHosp	880	1937.815	1097.453	173.953271	4976.465939
NearestSGrocShop	880	1541.460	600.415	78.67747724	3299.31823
Log_10_Sale_Price	880	4.863	0.362	3.54406804435028	5.88366143515362

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Robust Iterations - Coefficients

Robust Iteration	Max Percent Change in Coefficients	b(0)	b(1)	b(2)	b(3)
0		4.86706	0.00003	-0.00190	0.00226
1	223.039	4.65332	0.00003	-0.00215	0.00235
2	59.294	4.58763	0.00003	-0.00221	0.00235
3	5.869	4.56949	0.00003	-0.00223	0.00234
4	1.406	4.56433	0.00003	-0.00223	0.00234
5	0.517	4.56271	0.00003	-0.00223	0.00234
6	0.187	4.56219	0.00003	-0.00223	0.00234
7	0.065	4.56202	0.00003	-0.00223	0.00234
8	0.022	4.56196	0.00003	-0.00223	0.00234
9	0.007	4.56194	0.00003	-0.00223	0.00234
10	0.003	4.56194	0.00003	-0.00223	0.00234
11	0.001	4.56194	0.00003	-0.00223	0.00234

Robust Iterations - Residuals

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.122	0.234	0.386	1.466
1	223.039	0.116	0.235	0.383	1.522
2	59.294	0.115	0.236	0.384	1.533
3	5.869	0.114	0.236	0.384	1.536
4	1.406	0.113	0.236	0.383	1.537
5	0.517	0.113	0.236	0.383	1.537
6	0.187	0.113	0.236	0.383	1.537
7	0.065	0.113	0.236	0.383	1.537
8	0.022	0.113	0.236	0.383	1.537
9	0.007	0.113	0.236	0.383	1.537
10	0.003	0.113	0.236	0.383	1.537
11	0.001	0.113	0.236	0.383	1.537

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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	4.56194	0.490042	0.0000	9.309	0.0000	Yes
Block_area_sqm	0.00003	0.000026	0.0381	1.134	0.2573	No
House_area_sqm	-0.00223	0.000817	-0.0890	-2.734	0.0064	Yes
House_Floor_area_sqm	0.00234	0.000534	0.1517	4.385	0.0000	Yes
Bedrooms	0.15130	0.016240	0.3109	9.317	0.0000	Yes
Bathrooms	-0.05701	0.030079	-0.0611	-1.895	0.0584	No
Car_Spaces	0.06140	0.012834	0.1526	4.784	0.0000	Yes
DistanceMM	0.00000	0.000037	-0.0093	-0.128	0.8985	No
DistToRailwayStation	-0.00004	0.000092	-0.1040	-0.406	0.6847	No
DIST_PubPrimSch	-0.00005	0.000070	-0.1250	-0.778	0.4370	No
NearestHighSch	-0.00013	0.000044	-0.2340	-2.862	0.0043	Yes
Distance_to_AqCentre	-0.00014	0.000212	-0.2415	-0.657	0.5115	No
Distance_to_Clink	0.00018	0.000148	0.3483	1.192	0.2337	No
Dist_to_CSUni	0.00001	0.000064	0.0543	0.229	0.8186	No
MinParkDist	0.00003	0.000052	0.0661	0.671	0.5024	No
ComHealthCentre	0.00006	0.000100	0.1570	0.585	0.5589	No
Closest_petrol	0.00002	0.000055	0.0217	0.316	0.7523	No
NearestFastFood	-0.00008	0.000089	-0.1548	-0.923	0.3565	No
DistToHosp	0.00004	0.000095	0.1194	0.417	0.6770	No
NearestSGrocShop	0.00015	0.000112	0.2445	1.321	0.1869	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	4.56194	0.524176	0.0000	8.703	0.0000	Yes
Block_area_sqm	0.00003	0.000028	0.0381	1.059	0.2899	No
House_area_sqm	-0.00223	0.000890	-0.0890	-2.510	0.0123	Yes
House_Floor_area_sqm	0.00234	0.000581	0.1517	4.034	0.0001	Yes
Bedrooms	0.15130	0.017561	0.3109	8.616	0.0000	Yes
Bathrooms	-0.05701	0.032752	-0.0611	-1.741	0.0821	No
Car_Spaces	0.06140	0.014059	0.1526	4.368	0.0000	Yes
DistanceMM	0.00000	0.000041	-0.0093	-0.115	0.9085	No
DistToRailwayStation	-0.00004	0.000100	-0.1040	-0.376	0.7070	No
DIST_PubPrimSch	-0.00005	0.000077	-0.1250	-0.711	0.4775	No
NearestHighSch	-0.00013	0.000048	-0.2340	-2.629	0.0087	Yes
Distance_to_AqCentre	-0.00014	0.000227	-0.2415	-0.615	0.5386	No
Distance_to_Clink	0.00018	0.000159	0.3483	1.106	0.2690	No
Dist_to_CSUni	0.00001	0.000070	0.0543	0.211	0.8329	No
MinParkDist	0.00003	0.000056	0.0661	0.620	0.5352	No
ComHealthCentre	0.00006	0.000109	0.1570	0.539	0.5903	No
Closest_petrol	0.00002	0.000061	0.0217	0.288	0.7737	No
NearestFastFood	-0.00008	0.000097	-0.1548	-0.846	0.3977	No
DistToHosp	0.00004	0.000104	0.1194	0.381	0.7035	No
NearestSGrocShop	0.00015	0.000122	0.2445	1.209	0.2268	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	4.56194	0.490042	3.60147	5.52240
Block_area_sqm	0.00003	0.000026	-0.00002	0.00008
House_area_sqm	-0.00223	0.000817	-0.00384	-0.00063
House_Floor_area_sqm	0.00234	0.000534	0.00130	0.00339
Bedrooms	0.15130	0.016240	0.11947	0.18313
Bathrooms	-0.05701	0.030079	-0.11597	0.00194
Car_Spaces	0.06140	0.012834	0.03625	0.08656
DistanceMM	0.00000	0.000037	-0.00008	0.00007
DistToRailwayStation	-0.00004	0.000092	-0.00022	0.00014
DIST_PubPrimSch	-0.00005	0.000070	-0.00019	0.00008
NearestHighSch	-0.00013	0.000044	-0.00021	-0.00004
Distance_to_AqCentre	-0.00014	0.000212	-0.00056	0.00028
Distance_to_Clink	0.00018	0.000148	-0.00011	0.00047
Dist_to_CSUni	0.00001	0.000064	-0.00011	0.00014
MinParkDist	0.00003	0.000052	-0.00007	0.00014
ComHealthCentre	0.00006	0.000100	-0.00014	0.00025
Closest_petrol	0.00002	0.000055	-0.00009	0.00013
NearestFastFood	-0.00008	0.000089	-0.00026	0.00009
DistToHosp	0.00004	0.000095	-0.00015	0.00022
NearestSGrocShop	0.00015	0.000112	-0.00007	0.00037

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	4.56194	0.524176	3.53457	5.58930
Block_area_sqm	0.00003	0.000028	-0.00002	0.00008
House_area_sqm	-0.00223	0.000890	-0.00398	-0.00049
House_Floor_area_sqm	0.00234	0.000581	0.00120	0.00348
Bedrooms	0.15130	0.017561	0.11688	0.18572
Bathrooms	-0.05701	0.032752	-0.12120	0.00718
Car_Spaces	0.06140	0.014059	0.03385	0.08896
DistanceMM	0.00000	0.000041	-0.00008	0.00008
DistToRailwayStation	-0.00004	0.000100	-0.00023	0.00016
DIST_PubPrimSch	-0.00005	0.000077	-0.00020	0.00010
NearestHighSch	-0.00013	0.000048	-0.00022	-0.00003
Distance_to_AqCentre	-0.00014	0.000227	-0.00058	0.00030
Distance_to_Clink	0.00018	0.000159	-0.00014	0.00049
Dist_to_CSUni	0.00001	0.000070	-0.00012	0.00015
MinParkDist	0.00003	0.000056	-0.00008	0.00015
ComHealthCentre	0.00006	0.000109	-0.00015	0.00027
Closest_petrol	0.00002	0.000061	-0.00010	0.00014
NearestFastFood	-0.00008	0.000097	-0.00027	0.00011
DistToHosp	0.00004	0.000104	-0.00016	0.00024
NearestSGrocShop	0.00015	0.000122	-0.00009	0.00039

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

Estimated Equation

Log_10_Sale_Price =
 4.56193642903043 + 2.92551850332624E-05 * Block_area_sqm - 0.00223452316096705 * House_area_sqm +
 0.00234304484024881 * House_Floor_area_sqm + 0.151300173565282 * Bedrooms - 0.0570117103525177 *
 Bathrooms + 0.061401976789072 * Car_Spaces - 4.70688780714995E-06 * DistanceMM -
 3.7488867962834E-05 * DistToRailwayStation - 5.44312419264939E-05 * DIST_PubPrimSch -
 0.00012619150183192 * NearestHighSch - 0.000139442307854317 * Distance_to_AqCentre +
 0.000176139054547007 * Distance_to_Clink + 1.47900943563259E-05 * Dist_to_CSUni +
 3.48767845316652E-05 * MinParkDist + 5.84528848534508E-05 * ComHealthCentre + 1.74010034231522E-05
 * Closest_petrol - 8.22089819387523E-05 * NearestFastFood + 3.94256166082458E-05 * DistToHosp +
 0.000147519712203836 * NearestSGrocShop

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Analysis of Variance

Source	DF	R ²	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		19914.67	19914.67		
Model	19	0.2568	29.63	1.56	15.640	0.0000
Error	860	0.7432	85.76	0.10		
Total(Adjusted)	879	1.0000	115.40	0.13		

PRESS Report

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	115.51	85.76
Sum of Residuals	250.76	245.22
R ²	0.0000	0.2568

Normality Tests

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.983	0.0000	Yes
Anderson Darling	3.042	0.0000	Yes
D'Agostino Skewness	-7.717	0.0000	Yes
D'Agostino Kurtosis	4.058	0.0000	Yes
D'Agostino Omnibus	76.012	0.0000	Yes

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Serial Correlation of Residuals

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.2986	9	0.3515	17	0.2546
2	0.2958	10	0.3507	18	0.2666
3	0.3048	11	0.3018	19	0.2504
4	0.2984	12	0.2804	20	0.2659
5	0.3173	13	0.2712	21	0.2980
6	0.2781	14	0.2756	22	0.2669
7	0.2812	15	0.2909	23	0.2304
8	0.2583	16	0.2615	24	0.2745

Above serial correlations are significant if their absolute values are greater than 0.0674.

Durbin-Watson Test For Serial Correlation

Parameter	Test Statistic to Test H0: $\rho(1) = 0$?	Reject H0 at 20%?
Durbin-Watson Value	1.401	
Prob. Level: Positive Serial Correlation	0.3491	No
Prob. Level: Negative Serial Correlation	0.6440	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
Block_area_sqm	0.0214	0.0214	0.0011	0.0214	0.0015
House_area_sqm	0.0229	0.0015	0.0065	0.0037	0.0086
House_Floor_area_sqm	0.0797	0.0568	0.0166	0.0707	0.0219
Bedrooms	0.1930	0.1133	0.0750	0.1471	0.0917
Bathrooms	0.1934	0.0005	0.0031	0.0167	0.0042
Car_Spaces	0.2138	0.0204	0.0198	0.0762	0.0259
DistanceMM	0.2287	0.0149	0.0000	0.0484	0.0000
DistToRailwayStation	0.2300	0.0013	0.0001	0.0044	0.0002
DIST_PubPrimSch	0.2311	0.0011	0.0005	0.0133	0.0007
NearestHighSch	0.2359	0.0048	0.0071	0.0012	0.0094
Distance_to_AqCentre	0.2396	0.0037	0.0004	0.0100	0.0005
Distance_to_Clink	0.2439	0.0043	0.0012	0.0053	0.0016
Dist_to_CSUni	0.2442	0.0003	0.0000	0.0398	0.0001
MinParkDist	0.2542	0.0100	0.0004	0.0021	0.0005
ComHealthCentre	0.2545	0.0004	0.0003	0.0004	0.0004
Closest_petrol	0.2552	0.0007	0.0001	0.0435	0.0001
NearestFastFood	0.2552	0.0000	0.0007	0.0008	0.0010
DistToHosp	0.2553	0.0001	0.0002	0.0075	0.0002
NearestSGrocShop	0.2568	0.0015	0.0015	0.0374	0.0020

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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	0.2568	0.10			
Block_area_sqm	0.2557	0.10	19.285	0.2573	0.2363
House_area_sqm	0.2503	0.10	25.477	0.0064	0.1847
House_Floor_area_sqm	0.2402	0.10	37.231	0.0000	0.2779
Bedrooms	0.1818	0.11	104.802	0.0000	0.2241
Bathrooms	0.2537	0.10	21.593	0.0584	0.1694
Car_Spaces	0.2370	0.10	40.891	0.0000	0.1507
DistanceMM	0.2568	0.10	18.016	0.8985	0.8384
DistToRailwayStation	0.2567	0.10	18.165	0.6847	0.9868
DIST_PubPrimSch	0.2563	0.10	18.605	0.4370	0.9666
NearestHighSch	0.2497	0.10	26.194	0.0043	0.8707
Distance_to_AqCentre	0.2564	0.10	18.431	0.5115	0.9936
Distance_to_Clink	0.2556	0.10	19.420	0.2337	0.9899
Dist_to_CSUni	0.2567	0.10	18.053	0.8186	0.9846
MinParkDist	0.2564	0.10	18.450	0.5024	0.9109
ComHealthCentre	0.2565	0.10	18.342	0.5589	0.9880
Closest_petrol	0.2567	0.10	18.100	0.7523	0.8167
NearestFastFood	0.2561	0.10	18.851	0.3565	0.9693
DistToHosp	0.2566	0.10	18.174	0.6770	0.9895
NearestSGrocShop	0.2553	0.10	19.744	0.1869	0.9748

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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
Block_area_sqm	2.47	2.47	0.13	0.1463	0.0386
House_area_sqm	2.64	0.17	0.75	0.0611	-0.0928
House_Floor_area_sqm	9.19	6.55	1.92	0.2660	0.1479
Bedrooms	22.27	13.08	8.66	0.3835	0.3028
Bathrooms	22.32	0.05	0.36	0.1291	-0.0645
Car_Spaces	24.67	2.35	2.28	0.2760	0.1610
DistanceMM	26.39	1.71	0.00	0.2200	-0.0044
DistToRailwayStation	26.54	0.15	0.02	0.0666	-0.0138
DIST_PubPrimSch	26.66	0.13	0.06	-0.1152	-0.0265
NearestHighSch	27.22	0.56	0.82	-0.0352	-0.0971
Distance_to_AqCentre	27.65	0.43	0.04	0.1002	-0.0224
Distance_to_Clink	28.15	0.50	0.14	0.0730	0.0406
Dist_to_CSUni	28.18	0.03	0.01	0.1996	0.0078
MinParkDist	29.33	1.15	0.04	0.0461	0.0229
ComHealthCentre	29.37	0.04	0.03	-0.0198	0.0199
Closest_petrol	29.45	0.08	0.01	0.2085	0.0108
NearestFastFood	29.45	0.00	0.08	0.0279	-0.0314
DistToHosp	29.46	0.01	0.02	-0.0864	0.0142
NearestSGrocShop	29.63	0.17	0.17	0.1935	0.0450

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Sequential Models Report

Independent Variable	Included R ²	Included F-Ratio	Included Prob Level	Omitted R ²	Omitted F-Ratio	Omitted Prob Level
Block_area_sqm	0.0214	19.204	0.0000	0.2354	15.132	0.0000
House_area_sqm	0.0229	10.266	0.0000	0.2339	15.922	0.0000
House_Floor_area_sqm	0.0797	25.276	0.0000	0.1771	12.810	0.0000
Bedrooms	0.1930	52.307	0.0000	0.0638	4.923	0.0000
Bathrooms	0.1934	41.924	0.0000	0.0634	5.236	0.0000
Car_Spaces	0.2138	39.571	0.0000	0.0430	3.826	0.0000
DistanceMM	0.2287	36.932	0.0000	0.0281	2.712	0.0013
DistToRailwayStation	0.2300	32.514	0.0000	0.0268	2.823	0.0012
DIST_PubPrimSch	0.2311	29.047	0.0000	0.0257	2.978	0.0011
NearestHighSch	0.2359	26.826	0.0000	0.0209	2.688	0.0044
Distance_to_AqCentre	0.2396	24.864	0.0000	0.0172	2.487	0.0114
Distance_to_Clink	0.2439	23.308	0.0000	0.0129	2.130	0.0383
Dist_to_CSUni	0.2442	21.522	0.0000	0.0126	2.432	0.0245
MinParkDist	0.2542	21.057	0.0000	0.0026	0.605	0.6964
ComHealthCentre	0.2545	19.667	0.0000	0.0023	0.654	0.6245
Closest_petrol	0.2552	18.483	0.0000	0.0016	0.608	0.6100
NearestFastFood	0.2552	17.377	0.0000	0.0016	0.903	0.4057
DistToHosp	0.2553	16.397	0.0000	0.0015	1.744	0.1869
NearestSGrocShop	0.2568	15.640	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 Log_10_Sale_Price

Multicollinearity Report

Independent Variable	Variance Inflation Factor	R ² Versus Other I.V.'s	Tolerance	Diagonal of X'X Inverse
Block_area_sqm	1.3094	0.2363	0.7637	6.67776772962535E-09
House_area_sqm	1.2265	0.1847	0.8153	6.69646294866896E-06
House_Floor_area_sqm	1.3849	0.2779	0.7221	2.8625685640673E-06
Bedrooms	1.2888	0.2241	0.7759	0.00264450569329495
Bathrooms	1.2040	0.1694	0.8306	0.00907243439782405
Car_Spaces	1.1774	0.1507	0.8493	0.00165153374914585
DistanceMM	6.1888	0.8384	0.1616	1.36388996822569E-08
DistToRailwayStation	75.8001	0.9868	0.0132	8.54150463312064E-08
DIST_PubPrimSch	29.9087	0.9666	0.0334	4.91381682517292E-08
NearestHighSch	7.7345	0.8707	0.1293	1.94882666425439E-08
Distance_to_AqCentre	156.4958	0.9936	0.0064	4.52080452431773E-07
Distance_to_Clink	98.8233	0.9899	0.0101	2.19031216348805E-07
Dist_to_CSUni	64.9146	0.9846	0.0154	4.16774713500004E-08
MinParkDist	11.2249	0.9109	0.0891	2.70896000797057E-08
ComHealthCentre	83.4094	0.9880	0.0120	1.00233361336677E-07
Closest_petrol	5.4565	0.8167	0.1833	3.04551093877292E-08
NearestFastFood	32.5878	0.9693	0.0307	7.96194073877406E-08
DistToHosp	95.0063	0.9895	0.0105	8.97410940876152E-08
NearestSGrocShop	39.6384	0.9748	0.0252	1.25090515864509E-07

Robust Residuals and Weights

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	4.230	4.613	-0.382	9.031	1.0000
2	5.114	4.863	0.251	4.910	1.0000
3	5.190	5.081	0.109	2.102	1.0000
4	4.860	4.960	-0.100	2.059	1.0000
5	5.130	5.225	-0.095	1.847	1.0000
6	4.255	4.605	-0.349	8.207	1.0000
7	4.342	4.813	-0.470	10.834	0.9739
8	4.230	4.792	-0.561	13.271	0.8160
9	4.740	4.484	0.256	5.402	1.0000
10	4.290	4.575	-0.285	6.638	1.0000
11	4.544	4.928	-0.384	8.440	1.0000
12	4.477	4.623	-0.146	3.269	1.0000
13	4.964	4.731	0.233	4.689	1.0000
14	4.653	4.817	-0.164	3.519	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
15	4.699	4.863	-0.164	3.492	1.0000
16	4.070	4.422	-0.352	8.641	1.0000
17	4.342	4.708	-0.366	8.422	1.0000
18	4.740	4.757	-0.016	0.340	1.0000
19	4.602	4.849	-0.247	5.375	1.0000
21	4.653	4.866	-0.213	4.576	1.0000
22	4.000	5.451	-1.451	36.270	0.3158
23	4.602	4.953	-0.350	7.615	1.0000
25	4.643	4.695	-0.051	1.100	1.0000
26	4.000	4.660	-0.660	16.489	0.6946
27	4.509	4.738	-0.229	5.083	1.0000
28	4.591	4.681	-0.090	1.950	1.0000
29	4.618	4.719	-0.101	2.183	1.0000
30	5.000	4.718	0.282	5.636	1.0000
31	4.602	4.754	-0.152	3.306	1.0000
32	4.255	4.620	-0.364	8.564	1.0000
33	4.398	4.706	-0.309	7.016	1.0000
34	4.863	4.714	0.149	3.061	1.0000
35	4.954	4.714	0.241	4.858	1.0000
36	4.778	4.761	0.017	0.355	1.0000
37	4.000	4.727	-0.727	18.175	0.6302
38	4.591	4.802	-0.211	4.605	1.0000
39	4.556	4.812	-0.255	5.602	1.0000
40	4.580	4.881	-0.301	6.573	1.0000
41	4.146	4.435	-0.289	6.974	1.0000
45	4.881	4.921	-0.040	0.826	1.0000
46	4.362	4.739	-0.378	8.659	1.0000
47	4.477	4.882	-0.405	9.043	1.0000
48	4.799	5.189	-0.389	8.113	1.0000
49	4.690	4.668	0.023	0.481	1.0000
50	4.217	4.877	-0.660	15.639	0.6946
51	4.398	4.650	-0.253	5.743	1.0000
52	4.079	4.727	-0.648	15.886	0.7070
53	3.845	5.187	-1.342	34.904	0.3414
54	3.929	4.443	-0.513	13.060	0.8928
55	4.484	4.946	-0.462	10.300	0.9919
56	4.623	4.814	-0.191	4.122	1.0000
57	4.290	4.884	-0.594	13.853	0.7709
58	3.929	4.447	-0.517	13.161	0.8859
59	4.079	4.907	-0.828	20.298	0.5533
60	4.447	4.913	-0.466	10.468	0.9841
61	4.380	4.878	-0.498	11.360	0.9207
62	4.301	4.630	-0.329	7.652	1.0000
63	4.544	4.922	-0.377	8.306	1.0000
64	4.079	4.503	-0.424	10.391	1.0000
65	4.756	4.907	-0.151	3.184	1.0000
66	4.230	4.965	-0.735	17.368	0.6235

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
67	4.699	4.900	-0.201	4.287	1.0000
68	4.643	5.003	-0.359	7.741	1.0000
69	4.531	4.990	-0.459	10.123	0.9987
75	4.415	5.121	-0.706	16.002	0.6485
80	4.690	4.866	-0.176	3.746	1.0000
82	4.919	4.896	0.023	0.472	1.0000
83	4.544	4.797	-0.253	5.574	1.0000
84	5.093	5.066	0.027	0.533	1.0000
85	4.146	4.504	-0.358	8.637	1.0000
87	4.176	4.459	-0.282	6.764	1.0000
90	3.845	4.462	-0.617	16.050	0.7424
91	4.505	4.696	-0.191	4.229	1.0000
92	4.161	4.697	-0.536	12.883	0.8545
93	3.845	4.620	-0.775	20.154	0.5912
94	4.568	4.701	-0.132	2.899	1.0000
95	4.362	4.532	-0.170	3.904	1.0000
96	4.342	4.681	-0.339	7.803	1.0000
97	4.447	4.681	-0.234	5.264	1.0000
98	4.796	4.668	0.128	2.672	1.0000
106	4.000	4.435	-0.435	10.880	1.0000
107	4.776	4.759	0.017	0.355	1.0000
110	4.255	4.559	-0.304	7.144	1.0000
111	4.778	4.729	0.049	1.027	1.0000
113	5.255	5.034	0.222	4.219	1.0000
116	4.763	4.875	-0.111	2.334	1.0000
117	4.929	4.992	-0.063	1.279	1.0000
119	4.940	5.024	-0.084	1.709	1.0000
122	4.398	4.790	-0.392	8.909	1.0000
123	4.415	4.790	-0.375	8.488	1.0000
124	4.732	4.842	-0.110	2.325	1.0000
125	4.041	4.900	-0.858	21.242	0.5337
126	4.736	5.142	-0.405	8.557	1.0000
127	5.161	5.226	-0.064	1.247	1.0000
130	5.114	4.961	0.153	2.992	1.0000
131	5.049	5.206	-0.156	3.099	1.0000
133	4.477	4.676	-0.199	4.450	1.0000
134	4.544	4.862	-0.318	6.991	1.0000
135	4.699	5.039	-0.340	7.233	1.0000
136	4.940	4.726	0.214	4.326	1.0000
137	4.204	5.152	-0.947	22.535	0.4836
138	4.505	4.875	-0.370	8.218	1.0000
139	4.380	5.159	-0.779	17.782	0.5882
140	4.505	5.129	-0.624	13.851	0.7342
143	4.602	4.750	-0.148	3.221	1.0000
144	4.922	4.776	0.146	2.958	1.0000
145	4.672	4.873	-0.201	4.300	1.0000
147	4.477	4.964	-0.487	10.867	0.9417

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
148	4.061	4.980	-0.920	22.645	0.4982
149	4.398	4.751	-0.353	8.028	1.0000
151	4.602	4.809	-0.207	4.504	1.0000
152	4.498	4.619	-0.121	2.679	1.0000
153	3.699	4.498	-0.799	21.598	0.5735
154	4.820	4.832	-0.012	0.254	1.0000
155	4.477	4.755	-0.277	6.196	1.0000
157	4.987	4.886	0.100	2.012	1.0000
160	4.477	4.717	-0.240	5.360	1.0000
161	4.699	4.666	0.033	0.705	1.0000
163	4.978	4.984	-0.006	0.129	1.0000
164	4.643	4.666	-0.023	0.488	1.0000
166	4.940	5.062	-0.122	2.479	1.0000
167	4.699	4.900	-0.201	4.280	1.0000
168	4.079	4.932	-0.853	20.916	0.5370
171	4.826	4.863	-0.037	0.770	1.0000
172	4.447	4.716	-0.269	6.052	1.0000
173	4.301	4.422	-0.121	2.803	1.0000
176	4.398	4.732	-0.334	7.599	1.0000
180	4.230	4.805	-0.574	13.570	0.7981
181	4.978	5.090	-0.113	2.265	1.0000
184	4.792	4.558	0.234	4.888	1.0000
188	5.143	4.872	0.271	5.261	1.0000
189	4.380	4.721	-0.341	7.784	1.0000
190	4.597	4.971	-0.374	8.142	1.0000
191	4.716	4.950	-0.234	4.966	1.0000
192	4.398	5.155	-0.757	17.205	0.6055
198	3.903	4.766	-0.863	22.098	0.5312
200	4.519	4.681	-0.162	3.592	1.0000
202	4.255	4.796	-0.541	12.717	0.8466
203	4.477	4.810	-0.333	7.429	1.0000
204	4.477	4.918	-0.441	9.841	1.0000
207	4.398	4.974	-0.576	13.088	0.7959
211	4.568	4.882	-0.314	6.875	1.0000
212	4.813	4.782	0.030	0.633	1.0000
214	4.362	4.848	-0.486	11.139	0.9429
215	4.000	4.892	-0.892	22.307	0.5135
217	4.255	4.816	-0.561	13.179	0.8169
228	4.544	4.675	-0.130	2.871	1.0000
230	4.462	4.496	-0.034	0.751	1.0000
232	4.940	4.836	0.103	2.091	1.0000
233	4.041	4.754	-0.712	17.625	0.6432
234	4.531	4.644	-0.113	2.483	1.0000
236	5.000	4.827	0.173	3.467	1.0000
237	4.544	4.881	-0.337	7.406	1.0000
239	4.477	4.928	-0.451	10.063	1.0000
241	5.161	5.157	0.004	0.079	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
242	4.447	5.188	-0.740	16.648	0.6188
244	4.740	4.962	-0.222	4.680	1.0000
246	4.716	4.847	-0.131	2.772	1.0000
247	5.011	4.926	0.085	1.692	1.0000
250	4.041	4.613	-0.572	14.153	0.8010
251	4.279	4.579	-0.300	7.022	1.0000
252	4.301	4.809	-0.508	11.818	0.9013
253	4.255	4.742	-0.487	11.439	0.9412
254	4.322	4.702	-0.379	8.776	1.0000
255	4.230	4.647	-0.417	9.852	1.0000
257	4.000	4.505	-0.505	12.613	0.9081
258	4.279	4.854	-0.576	13.454	0.7958
280	4.398	4.714	-0.316	7.180	1.0000
281	4.544	4.811	-0.267	5.871	1.0000
282	4.556	4.982	-0.426	9.345	1.0000
284	4.398	4.917	-0.519	11.805	0.8824
285	4.176	5.094	-0.918	21.987	0.4990
286	4.301	4.808	-0.507	11.777	0.9045
288	4.505	4.748	-0.243	5.389	1.0000
290	4.623	4.842	-0.218	4.726	1.0000
292	4.799	5.049	-0.249	5.196	1.0000
294	4.643	4.798	-0.155	3.338	1.0000
295	4.000	4.743	-0.743	18.569	0.6168
296	5.061	4.778	0.282	5.577	1.0000
298	4.778	4.783	-0.005	0.104	1.0000
300	4.176	4.469	-0.293	7.017	1.0000
303	4.322	4.924	-0.602	13.930	0.7609
305	4.380	4.596	-0.216	4.926	1.0000
306	4.301	5.150	-0.849	19.745	0.5395
309	4.778	4.707	0.071	1.482	1.0000
310	5.111	4.905	0.206	4.027	1.0000
311	4.505	5.247	-0.741	16.458	0.6179
315	5.106	4.775	0.331	6.479	1.0000
317	3.845	4.672	-0.827	21.517	0.5538
318	4.820	4.980	-0.161	3.339	1.0000
319	4.633	4.512	0.122	2.627	1.0000
320	3.875	4.663	-0.788	20.335	0.5814
324	4.279	4.781	-0.502	11.728	0.9130
325	4.398	4.868	-0.470	10.695	0.9740
326	5.204	4.906	0.298	5.727	1.0000
327	4.845	4.970	-0.125	2.580	1.0000
329	3.829	4.573	-0.743	19.413	0.6163
332	4.505	4.777	-0.272	6.032	1.0000
333	4.736	5.084	-0.348	7.342	1.0000
335	4.301	4.779	-0.478	11.123	0.9576
336	4.771	4.795	-0.024	0.502	1.0000
337	3.954	4.639	-0.685	17.322	0.6689

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
338	4.362	4.916	-0.554	12.707	0.8266
341	4.301	4.995	-0.694	16.143	0.6598
342	4.623	5.086	-0.463	10.017	0.9893
347	4.255	4.948	-0.693	16.288	0.6610
348	4.623	4.804	-0.181	3.909	1.0000
349	4.940	4.878	0.062	1.249	1.0000
352	5.097	5.365	-0.268	5.253	1.0000
353	5.057	5.014	0.043	0.857	1.0000
354	5.398	5.395	0.002	0.046	1.0000
356	4.826	4.634	0.193	3.990	1.0000
357	4.000	5.152	-1.152	28.808	0.3976
358	5.041	5.150	-0.108	2.146	1.0000
361	4.342	4.987	-0.644	14.836	0.7111
363	4.886	4.789	0.098	2.005	1.0000
364	4.544	4.626	-0.082	1.805	1.0000
365	4.699	4.811	-0.112	2.384	1.0000
366	4.544	4.578	-0.033	0.736	1.0000
368	5.021	4.911	0.110	2.186	1.0000
369	4.924	4.996	-0.071	1.450	1.0000
371	4.519	4.768	-0.250	5.524	1.0000
372	4.699	4.463	0.236	5.031	1.0000
374	4.519	4.780	-0.262	5.792	1.0000
375	4.857	4.819	0.039	0.797	1.0000
378	4.648	4.746	-0.098	2.099	1.0000
380	4.146	4.440	-0.294	7.092	1.0000
381	4.653	4.986	-0.333	7.160	1.0000
382	4.398	4.737	-0.339	7.714	1.0000
383	4.886	4.846	0.041	0.831	1.0000
387	4.823	5.134	-0.311	6.451	1.0000
388	5.398	5.365	0.033	0.605	1.0000
390	5.130	5.031	0.099	1.927	1.0000
392	4.398	4.778	-0.380	8.635	1.0000
393	4.929	4.920	0.010	0.195	1.0000
394	4.653	5.039	-0.386	8.286	1.0000
398	4.000	4.473	-0.473	11.827	0.9684
400	4.869	4.789	0.081	1.654	1.0000
402	4.301	4.749	-0.448	10.418	1.0000
404	5.255	4.489	0.766	14.572	0.5983
406	4.914	4.773	0.141	2.867	1.0000
408	5.152	4.665	0.488	9.464	0.9396
410	4.919	4.678	0.241	4.905	1.0000
411	4.053	4.615	-0.562	13.860	0.8156
414	4.792	4.855	-0.063	1.307	1.0000
419	5.230	4.990	0.240	4.594	1.0000
422	4.505	4.703	-0.197	4.382	1.0000
425	4.954	4.658	0.297	5.988	1.0000
429	4.820	4.783	0.037	0.763	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
431	5.161	4.979	0.182	3.533	1.0000
436	5.176	4.803	0.373	7.200	1.0000
441	4.748	4.609	0.139	2.929	1.0000
447	5.041	4.939	0.102	2.031	1.0000
450	5.161	5.033	0.128	2.488	1.0000
451	4.954	4.666	0.289	5.826	1.0000
455	4.813	4.617	0.196	4.064	1.0000
456	4.477	4.749	-0.272	6.066	1.0000
457	4.964	5.017	-0.053	1.070	1.0000
458	5.230	5.123	0.108	2.063	1.0000
459	5.161	4.839	0.322	6.237	1.0000
460	4.863	4.694	0.169	3.471	1.0000
464	5.121	4.698	0.423	8.253	1.0000
465	5.079	4.728	0.351	6.906	1.0000
466	4.342	4.601	-0.258	5.946	1.0000
467	4.778	4.761	0.017	0.354	1.0000
468	4.720	4.651	0.069	1.461	1.0000
469	5.188	5.062	0.126	2.427	1.0000
472	4.954	5.151	-0.197	3.979	1.0000
474	4.778	4.865	-0.087	1.821	1.0000
475	4.826	4.993	-0.167	3.458	1.0000
476	4.763	5.021	-0.257	5.400	1.0000
477	4.929	4.800	0.129	2.620	1.0000
478	5.041	4.889	0.152	3.016	1.0000
479	5.064	4.855	0.209	4.132	1.0000
481	5.114	4.997	0.117	2.279	1.0000
482	5.574	5.294	0.280	5.021	1.0000
483	4.788	5.075	-0.287	5.993	1.0000
484	3.801	5.074	-1.273	33.487	0.3599
485	4.752	5.074	-0.322	6.773	1.0000
486	3.845	5.050	-1.205	31.348	0.3801
487	4.954	4.753	0.201	4.062	1.0000
490	4.398	4.664	-0.266	6.040	1.0000
491	5.104	5.064	0.040	0.782	1.0000
492	4.352	4.771	-0.419	9.630	1.0000
493	5.097	4.758	0.339	6.658	1.0000
495	5.435	5.174	0.260	4.791	1.0000
496	4.047	4.672	-0.626	15.460	0.7323
497	4.602	4.878	-0.276	5.988	1.0000
498	4.712	4.814	-0.102	2.165	1.0000
500	4.991	4.835	0.156	3.134	1.0000
502	4.845	4.929	-0.084	1.738	1.0000
503	4.991	5.005	-0.013	0.270	1.0000
511	4.944	4.952	-0.007	0.151	1.0000
514	4.813	4.919	-0.106	2.196	1.0000
526	4.447	4.598	-0.151	3.395	1.0000
527	4.602	4.613	-0.011	0.240	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
530	5.130	4.871	0.259	5.049	1.0000
531	4.602	4.792	-0.190	4.123	1.0000
536	5.079	4.780	0.299	5.893	1.0000
539	4.562	4.675	-0.113	2.466	1.0000
542	4.681	4.805	-0.124	2.649	1.0000
544	5.107	4.740	0.367	7.188	1.0000
545	4.431	4.864	-0.432	9.752	1.0000
547	4.431	5.186	-0.754	17.021	0.6074
549	4.699	4.715	-0.016	0.339	1.0000
551	4.845	4.820	0.026	0.526	1.0000
555	4.816	4.622	0.195	4.043	1.0000
557	4.857	4.780	0.078	1.599	1.0000
560	4.813	4.711	0.102	2.115	1.0000
562	4.799	5.016	-0.217	4.513	1.0000
565	4.623	4.805	-0.181	3.924	1.0000
566	4.866	4.790	0.077	1.573	1.0000
567	4.778	4.817	-0.039	0.818	1.0000
571	4.857	4.900	-0.043	0.876	1.0000
572	4.544	4.972	-0.428	9.418	1.0000
573	4.544	5.336	-0.792	17.428	0.5785
574	5.398	5.226	0.172	3.190	1.0000
575	5.430	5.226	0.204	3.758	1.0000
576	4.875	4.902	-0.027	0.552	1.0000
577	5.086	5.135	-0.048	0.948	1.0000
578	5.161	4.923	0.238	4.617	1.0000
580	5.130	5.210	-0.079	1.544	1.0000
581	5.170	5.087	0.083	1.601	1.0000
587	4.845	5.046	-0.201	4.154	1.0000
588	4.580	4.925	-0.345	7.539	1.0000
591	5.267	4.764	0.503	9.552	0.9106
595	4.763	4.763	0.000	0.001	1.0000
598	4.613	4.749	-0.136	2.947	1.0000
599	4.740	4.920	-0.179	3.781	1.0000
601	5.312	5.302	0.010	0.186	1.0000
602	5.037	5.153	-0.116	2.294	1.0000
605	5.037	5.019	0.018	0.359	1.0000
606	5.243	5.053	0.190	3.619	1.0000
609	4.898	4.749	0.149	3.032	1.0000
610	4.362	4.732	-0.370	8.481	1.0000
611	5.262	4.924	0.339	6.440	1.0000
612	4.301	4.897	-0.596	13.863	0.7684
613	4.833	4.831	0.001	0.030	1.0000
614	4.940	4.850	0.090	1.815	1.0000
619	4.398	4.816	-0.418	9.510	1.0000
620	5.294	5.081	0.213	4.029	1.0000
622	5.210	4.804	0.405	7.780	1.0000
626	4.792	4.687	0.106	2.205	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
630	4.857	5.027	-0.169	3.488	1.0000
632	4.531	4.733	-0.202	4.456	1.0000
633	4.978	4.791	0.186	3.743	1.0000
634	4.301	4.741	-0.440	10.236	1.0000
635	5.114	4.965	0.149	2.910	1.0000
639	4.857	4.810	0.047	0.972	1.0000
642	3.847	4.659	-0.812	21.119	0.5640
645	4.439	4.612	-0.173	3.897	1.0000
650	4.301	4.781	-0.480	11.156	0.9548
655	4.505	4.788	-0.283	6.276	1.0000
657	5.097	4.722	0.375	7.365	1.0000
658	5.137	5.010	0.127	2.476	1.0000
662	4.398	5.052	-0.654	14.879	0.7001
663	4.796	4.777	0.019	0.390	1.0000
664	5.079	4.945	0.135	2.649	1.0000
665	4.628	4.786	-0.158	3.416	1.0000
669	4.740	4.744	-0.003	0.071	1.0000
670	4.892	4.756	0.136	2.783	1.0000
671	4.505	4.750	-0.245	5.436	1.0000
676	5.114	5.279	-0.165	3.235	1.0000
678	5.097	4.857	0.239	4.699	1.0000
684	3.699	4.452	-0.753	20.355	0.6085
688	4.903	4.860	0.043	0.887	1.0000
689	4.857	5.009	-0.152	3.130	1.0000
690	4.860	4.904	-0.044	0.909	1.0000
692	4.929	4.801	0.129	2.610	1.0000
693	4.352	4.908	-0.556	12.768	0.8245
704	4.544	4.858	-0.314	6.914	1.0000
706	4.690	4.586	0.104	2.209	1.0000
707	4.146	4.831	-0.685	16.515	0.6691
712	4.857	5.080	-0.223	4.587	1.0000
713	4.842	4.902	-0.060	1.237	1.0000
715	4.748	4.825	-0.077	1.614	1.0000
719	5.041	5.101	-0.059	1.177	1.0000
722	5.342	4.936	0.406	7.603	1.0000
724	5.097	5.013	0.084	1.644	1.0000
729	5.000	4.865	0.135	2.704	1.0000
733	5.225	4.946	0.279	5.343	1.0000
735	4.477	4.961	-0.484	10.817	0.9460
736	5.114	4.810	0.304	5.936	1.0000
738	4.968	5.107	-0.138	2.784	1.0000
739	4.845	5.128	-0.283	5.832	1.0000
740	4.623	4.825	-0.202	4.371	1.0000
743	5.358	5.285	0.073	1.365	1.0000
744	5.352	5.213	0.139	2.602	1.0000
747	4.591	4.799	-0.208	4.539	1.0000
749	4.778	5.028	-0.250	5.225	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
751	5.175	4.791	0.383	7.405	1.0000
752	4.833	5.040	-0.208	4.302	1.0000
754	4.407	4.859	-0.453	10.271	1.0000
755	4.544	4.757	-0.213	4.678	1.0000
757	4.415	4.846	-0.431	9.769	1.0000
758	4.589	5.163	-0.574	12.502	0.7986
760	5.130	4.804	0.326	6.354	1.0000
761	4.875	4.439	0.436	8.946	1.0000
763	3.544	5.081	-1.537	43.367	0.2981
765	4.740	5.017	-0.277	5.844	1.0000
767	4.767	4.895	-0.128	2.679	1.0000
770	5.079	4.904	0.176	3.455	1.0000
773	5.061	5.226	-0.166	3.274	1.0000
782	5.090	4.956	0.134	2.624	1.0000
785	4.826	4.707	0.119	2.473	1.0000
786	4.477	4.646	-0.169	3.782	1.0000
787	4.892	4.764	0.128	2.619	1.0000
788	4.740	4.701	0.039	0.821	1.0000
795	5.301	5.041	0.260	4.901	1.0000
797	4.204	4.562	-0.358	8.510	1.0000
798	4.813	4.798	0.015	0.312	1.0000
799	4.663	5.007	-0.345	7.391	1.0000
803	4.839	4.639	0.200	4.128	1.0000
805	5.070	4.818	0.252	4.979	1.0000
806	4.602	4.850	-0.248	5.388	1.0000
807	5.031	4.620	0.412	8.182	1.0000
809	3.862	4.664	-0.803	20.784	0.5708
811	4.903	4.802	0.101	2.069	1.0000
813	4.663	4.688	-0.025	0.545	1.0000
817	4.477	4.841	-0.364	8.136	1.0000
818	4.176	4.736	-0.560	13.400	0.8187
819	4.699	4.896	-0.197	4.203	1.0000
820	4.989	4.900	0.089	1.779	1.0000
821	5.097	5.121	-0.024	0.466	1.0000
824	4.763	4.974	-0.211	4.421	1.0000
826	4.591	4.802	-0.211	4.585	1.0000
833	4.568	4.859	-0.290	6.357	1.0000
835	5.000	4.996	0.004	0.083	1.0000
841	4.826	4.911	-0.085	1.757	1.0000
845	4.991	4.743	0.248	4.964	1.0000
852	4.519	4.608	-0.090	1.990	1.0000
853	4.699	4.619	0.079	1.692	1.0000
855	5.204	4.829	0.375	7.214	1.0000
857	4.886	4.913	-0.026	0.539	1.0000
859	4.752	4.928	-0.176	3.694	1.0000
861	4.929	4.890	0.039	0.793	1.0000
864	4.844	4.814	0.030	0.628	1.0000

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
868	4.681	5.027	-0.346	7.385	1.0000
870	4.732	4.939	-0.207	4.375	1.0000
871	5.204	4.866	0.339	6.506	1.0000
875	4.875	4.903	-0.028	0.566	1.0000
877	4.176	4.666	-0.490	11.725	0.9356
878	5.255	4.958	0.297	5.661	1.0000
881	4.176	4.529	-0.353	8.455	1.0000
883	5.362	5.211	0.151	2.820	1.0000
884	4.949	5.250	-0.301	6.082	1.0000
885	4.964	5.063	-0.099	1.995	1.0000
887	5.312	4.771	0.541	10.181	0.8471
889	4.732	4.928	-0.196	4.138	1.0000
890	5.176	4.463	0.714	13.786	0.6420
895	3.954	4.632	-0.677	17.133	0.6762
898	4.699	4.746	-0.047	1.000	1.0000
902	4.342	4.691	-0.348	8.023	1.0000
903	5.204	5.063	0.141	2.703	1.0000
904	4.792	4.695	0.098	2.041	1.0000
906	4.929	4.937	-0.007	0.147	1.0000
908	4.519	4.765	-0.247	5.464	1.0000
909	5.051	5.319	-0.268	5.301	1.0000
910	5.146	5.044	0.102	1.978	1.0000
912	5.322	5.068	0.254	4.775	1.0000
914	4.778	5.086	-0.308	6.450	1.0000
917	5.000	4.895	0.105	2.106	1.0000
918	4.804	4.772	0.033	0.681	1.0000
920	4.978	4.859	0.119	2.385	1.0000
921	5.161	4.923	0.238	4.615	1.0000
922	4.716	4.687	0.029	0.623	1.0000
923	5.000	4.867	0.133	2.650	1.0000
924	5.061	4.845	0.215	4.255	1.0000
926	4.914	4.861	0.052	1.067	1.0000
928	4.792	4.978	-0.186	3.876	1.0000
929	5.270	5.212	0.058	1.094	1.0000
930	5.431	5.017	0.414	7.628	1.0000
931	4.301	4.878	-0.577	13.408	0.7944
932	4.845	5.082	-0.237	4.883	1.0000
935	5.267	4.997	0.271	5.136	1.0000
936	5.431	5.449	-0.018	0.326	1.0000
939	4.778	4.763	0.015	0.311	1.0000
941	4.903	5.211	-0.308	6.281	1.0000
944	5.279	4.446	0.833	15.784	0.5499
951	4.748	4.780	-0.032	0.671	1.0000
952	4.826	4.841	-0.015	0.319	1.0000
953	4.826	4.788	0.038	0.796	1.0000
954	5.204	4.819	0.385	7.407	1.0000
956	5.079	5.006	0.073	1.445	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
957	4.954	4.783	0.171	3.458	1.0000
958	4.892	4.759	0.133	2.727	1.0000
959	4.342	4.661	-0.318	7.326	1.0000
960	5.114	5.023	0.091	1.780	1.0000
961	4.875	4.868	0.007	0.151	1.0000
965	4.380	4.588	-0.208	4.748	1.0000
966	4.929	4.974	-0.045	0.905	1.0000
973	4.477	5.130	-0.653	14.587	0.7015
974	4.895	5.110	-0.215	4.390	1.0000
975	5.061	5.155	-0.094	1.863	1.0000
976	4.741	4.997	-0.255	5.383	1.0000
978	4.792	4.759	0.033	0.698	1.0000
981	5.574	5.294	0.280	5.030	1.0000
984	4.352	4.824	-0.471	10.833	0.9717
985	3.602	4.821	-1.219	33.841	0.3758
986	5.170	4.830	0.340	6.573	1.0000
992	4.929	4.968	-0.038	0.778	1.0000
996	4.875	5.072	-0.197	4.046	1.0000
998	4.978	5.141	-0.163	3.274	1.0000
1002	4.863	4.863	0.001	0.016	1.0000
1003	5.031	4.776	0.256	5.083	1.0000
1006	4.398	4.551	-0.153	3.478	1.0000
1007	3.903	4.881	-0.978	25.055	0.4685
1011	4.748	4.743	0.005	0.102	1.0000
1014	5.398	5.046	0.352	6.529	1.0000
1018	5.243	4.838	0.405	7.733	1.0000
1019	5.000	4.763	0.237	4.731	1.0000
1020	4.978	5.028	-0.050	1.008	1.0000
1024	5.398	5.135	0.262	4.863	1.0000
1029	5.176	5.059	0.117	2.256	1.0000
1030	5.000	4.667	0.333	6.662	1.0000
1033	4.653	4.792	-0.138	2.975	1.0000
1039	4.875	4.792	0.083	1.712	1.0000
1041	5.204	4.923	0.282	5.411	1.0000
1042	5.322	4.871	0.451	8.478	1.0000
1045	4.653	4.909	-0.256	5.493	1.0000
1047	4.544	4.809	-0.265	5.838	1.0000
1048	4.954	4.854	0.101	2.030	1.0000
1049	4.740	4.658	0.082	1.727	1.0000
1050	4.919	4.701	0.218	4.428	1.0000
1052	5.243	4.677	0.566	10.791	0.8098
1055	4.929	4.726	0.203	4.124	1.0000
1059	5.491	5.227	0.264	4.808	1.0000
1063	4.929	4.887	0.042	0.860	1.0000
1064	5.332	4.952	0.381	7.144	1.0000
1065	5.352	5.111	0.241	4.502	1.0000
1066	4.978	4.839	0.139	2.788	1.0000

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1067	4.813	4.836	-0.023	0.471	1.0000
1068	4.602	4.413	0.189	4.108	1.0000
1070	4.929	4.616	0.313	6.348	1.0000
1071	5.161	4.799	0.363	7.029	1.0000
1073	5.358	5.110	0.248	4.630	1.0000
1074	5.255	4.997	0.258	4.908	1.0000
1078	5.290	4.788	0.502	9.483	0.9133
1079	5.255	5.064	0.191	3.640	1.0000
1087	4.903	4.616	0.287	5.854	1.0000
1089	4.978	4.735	0.243	4.880	1.0000
1090	4.778	4.680	0.098	2.061	1.0000
1091	5.212	4.944	0.268	5.141	1.0000
1092	5.290	5.021	0.269	5.080	1.0000
1094	5.279	5.013	0.265	5.025	1.0000
1096	4.987	4.756	0.231	4.629	1.0000
1101	5.401	5.075	0.326	6.043	1.0000
1103	5.161	4.868	0.293	5.680	1.0000
1106	4.477	4.413	0.064	1.435	1.0000
1110	5.114	4.798	0.316	6.181	1.0000
1111	4.602	4.791	-0.189	4.103	1.0000
1112	5.000	4.671	0.329	6.575	1.0000
1114	5.217	4.974	0.243	4.663	1.0000
1115	4.978	5.085	-0.107	2.155	1.0000
1118	5.389	4.865	0.524	9.730	0.8737
1119	4.903	4.936	-0.033	0.675	1.0000
1121	5.255	4.808	0.448	8.519	1.0000
1123	5.588	5.185	0.403	7.218	1.0000
1124	5.190	4.676	0.514	9.909	0.8908
1126	4.740	4.785	-0.045	0.946	1.0000
1127	4.875	4.734	0.141	2.897	1.0000
1128	5.041	5.125	-0.084	1.661	1.0000
1129	4.699	4.871	-0.172	3.657	1.0000
1130	5.248	4.773	0.475	9.046	0.9651
1131	5.086	4.978	0.108	2.132	1.0000
1133	4.949	4.854	0.095	1.923	1.0000
1135	5.130	5.094	0.036	0.699	1.0000
1139	5.447	4.910	0.537	9.863	0.8527
1141	4.845	4.551	0.294	6.072	1.0000
1144	4.982	4.833	0.150	3.004	1.0000
1147	5.362	5.074	0.287	5.360	1.0000
1148	5.720	5.058	0.662	11.574	0.6920
1150	4.544	4.568	-0.024	0.530	1.0000
1151	4.845	4.698	0.147	3.028	1.0000
1154	4.477	4.791	-0.314	7.017	1.0000
1157	4.934	5.016	-0.082	1.657	1.0000
1159	5.114	4.975	0.139	2.713	1.0000
1163	4.845	4.880	-0.035	0.718	1.0000

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1165	4.568	4.780	-0.211	4.630	1.0000
1168	5.114	4.701	0.413	8.083	1.0000
1169	5.114	5.029	0.084	1.652	1.0000
1172	5.613	4.987	0.625	11.143	0.7325
1174	4.748	4.875	-0.127	2.677	1.0000
1176	5.204	4.878	0.326	6.271	1.0000
1179	4.740	4.934	-0.194	4.095	1.0000
1181	5.371	4.893	0.478	8.908	0.9576
1183	5.190	4.898	0.292	5.626	1.0000
1185	5.491	5.218	0.273	4.979	1.0000
1186	5.217	5.043	0.175	3.350	1.0000
1187	5.161	5.088	0.074	1.430	1.0000
1190	4.740	4.515	0.225	4.752	1.0000
1191	4.531	4.699	-0.167	3.694	1.0000
1192	4.602	4.754	-0.152	3.305	1.0000
1193	4.848	5.163	-0.315	6.502	1.0000
1194	4.903	4.798	0.105	2.145	1.0000
1195	5.238	4.749	0.489	9.341	0.9363
1202	5.312	5.143	0.168	3.171	1.0000
1203	4.978	4.945	0.032	0.650	1.0000
1204	4.097	4.407	-0.310	7.567	1.0000
1205	5.439	4.792	0.647	11.903	0.7076
1206	4.845	4.777	0.068	1.407	1.0000
1207	4.462	4.764	-0.302	6.766	1.0000
1212	4.653	4.710	-0.057	1.225	1.0000
1215	4.813	4.944	-0.131	2.723	1.0000
1216	5.371	4.892	0.479	8.921	0.9561
1217	5.061	4.550	0.510	10.085	0.8977
1219	5.362	5.076	0.286	5.338	1.0000
1221	4.903	4.711	0.192	3.920	1.0000
1225	5.011	4.875	0.136	2.707	1.0000
1226	5.602	4.847	0.755	13.485	0.6065
1227	5.190	5.017	0.173	3.342	1.0000
1228	5.204	4.756	0.448	8.610	1.0000
1230	4.301	4.583	-0.282	6.552	1.0000
1234	5.255	4.928	0.327	6.219	1.0000
1235	5.279	5.151	0.127	2.413	1.0000
1236	5.407	4.992	0.414	7.663	1.0000
1237	5.000	4.806	0.194	3.872	1.0000
1240	5.322	5.181	0.141	2.652	1.0000
1241	5.505	5.014	0.491	8.926	0.9323
1242	5.512	5.014	0.498	9.037	0.9197
1243	4.857	5.110	-0.253	5.208	1.0000
1244	5.000	5.132	-0.132	2.639	1.0000
1247	4.544	4.664	-0.119	2.630	1.0000
1248	4.892	4.780	0.112	2.298	1.0000
1250	5.362	4.766	0.596	11.116	0.7687

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1254	5.250	4.964	0.287	5.458	1.0000
1257	4.978	4.963	0.015	0.304	1.0000
1269	5.061	4.797	0.264	5.218	1.0000
1270	5.352	4.973	0.379	7.085	1.0000
1271	5.407	4.913	0.494	9.132	0.9279
1272	4.477	4.845	-0.368	8.217	1.0000
1276	4.398	4.458	-0.060	1.359	1.0000
1277	4.919	4.701	0.218	4.441	1.0000
1280	5.021	4.631	0.390	7.773	1.0000
1281	5.296	5.110	0.185	3.500	1.0000
1284	4.398	4.559	-0.161	3.668	1.0000
1285	4.602	4.501	0.101	2.193	1.0000
1287	4.301	4.832	-0.531	12.349	0.8626
1290	5.396	5.045	0.351	6.502	1.0000
1292	5.491	5.096	0.395	7.199	1.0000
1302	5.238	5.130	0.108	2.069	1.0000
1303	5.161	5.062	0.099	1.926	1.0000
1305	4.740	4.705	0.036	0.754	1.0000
1306	5.021	4.862	0.159	3.176	1.0000
1308	4.954	4.840	0.114	2.302	1.0000
1310	4.778	4.953	-0.175	3.654	1.0000
1311	5.097	4.826	0.271	5.324	1.0000
1313	5.097	4.806	0.291	5.710	1.0000
1315	5.079	5.294	-0.214	4.222	1.0000
1316	5.276	4.997	0.279	5.289	1.0000
1317	5.130	4.930	0.200	3.898	1.0000
1318	5.332	5.073	0.259	4.857	1.0000
1321	5.407	4.949	0.458	8.468	1.0000
1324	5.183	4.782	0.401	7.746	1.0000
1325	5.389	5.086	0.303	5.619	1.0000
1326	4.996	4.668	0.327	6.552	1.0000
1329	4.000	4.413	-0.413	10.337	1.0000
1332	4.342	5.050	-0.707	16.286	0.6478
1334	5.000	5.062	-0.062	1.240	1.0000
1336	5.161	4.956	0.205	3.973	1.0000
1338	4.623	4.570	0.053	1.146	1.0000
1340	4.431	4.831	-0.400	9.021	1.0000
1342	5.362	5.268	0.093	1.742	1.0000
1346	4.929	4.832	0.097	1.973	1.0000
1351	4.778	4.690	0.089	1.853	1.0000
1352	5.255	4.862	0.393	7.481	1.0000
1355	4.778	4.802	-0.023	0.491	1.0000
1357	4.740	4.770	-0.029	0.619	1.0000
1359	5.283	5.007	0.276	5.226	1.0000
1360	4.989	4.884	0.105	2.096	1.0000
1361	4.699	4.869	-0.170	3.623	1.0000
1362	5.431	5.094	0.337	6.202	1.0000

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1365	5.190	5.090	0.100	1.929	1.0000
1367	5.283	4.866	0.417	7.896	1.0000
1374	5.146	4.802	0.344	6.685	1.0000
1377	5.465	5.267	0.198	3.631	1.0000
1380	5.176	4.700	0.476	9.202	0.9619
1382	5.512	4.978	0.533	9.677	0.8589
1383	5.233	5.033	0.200	3.824	1.0000
1385	5.182	5.181	0.001	0.019	1.0000
1386	5.114	5.040	0.074	1.438	1.0000
1387	5.176	4.937	0.239	4.625	1.0000
1388	4.944	4.892	0.052	1.062	1.0000
1389	4.544	4.753	-0.209	4.603	1.0000
1395	5.176	4.904	0.272	5.261	1.0000
1396	5.362	5.328	0.034	0.630	1.0000
1400	5.121	5.061	0.060	1.167	1.0000
1405	5.243	4.865	0.378	7.210	1.0000
1406	5.398	4.788	0.610	11.303	0.7509
1407	5.301	5.023	0.278	5.237	1.0000
1408	5.249	5.021	0.228	4.352	1.0000
1411	5.371	5.090	0.282	5.242	1.0000
1413	4.799	4.618	0.182	3.784	1.0000
1414	5.114	4.924	0.190	3.716	1.0000
1416	4.602	5.101	-0.499	10.848	0.9177
1418	5.041	4.660	0.382	7.572	1.0000
1419	5.146	5.460	-0.314	6.106	1.0000
1426	5.000	4.804	0.196	3.913	1.0000
1427	4.114	4.541	-0.427	10.391	1.0000
1430	5.296	4.870	0.426	8.042	1.0000
1431	4.278	4.469	-0.192	4.486	1.0000
1433	4.991	5.262	-0.271	5.430	1.0000
1439	4.778	4.807	-0.029	0.597	1.0000
1440	4.903	4.885	0.018	0.366	1.0000
1441	4.602	4.507	0.095	2.071	1.0000
1442	5.152	5.008	0.144	2.798	1.0000
1444	5.204	5.003	0.201	3.864	1.0000
1446	5.498	5.213	0.285	5.183	1.0000
1448	5.290	5.063	0.227	4.295	1.0000
1451	5.079	4.897	0.182	3.582	1.0000
1452	4.964	4.808	0.156	3.141	1.0000
1455	4.623	4.984	-0.360	7.795	1.0000
1457	4.903	4.705	0.198	4.042	1.0000
1458	4.929	4.717	0.212	4.299	1.0000
1461	5.204	4.993	0.211	4.056	1.0000
1469	5.041	5.112	-0.071	1.409	1.0000
1470	5.267	5.050	0.217	4.118	1.0000
1472	5.763	5.136	0.628	10.892	0.7298
1473	4.875	4.907	-0.032	0.652	1.0000

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1477	5.097	4.859	0.238	4.660	1.0000
1479	5.230	4.850	0.380	7.271	1.0000
1480	4.957	4.780	0.177	3.563	1.0000
1483	4.892	4.801	0.091	1.853	1.0000
1485	5.217	4.826	0.391	7.501	1.0000
1487	5.061	4.781	0.280	5.532	1.0000
1489	5.491	4.943	0.549	9.992	0.8349
1490	5.380	4.828	0.552	10.259	0.8301
1491	4.845	4.568	0.278	5.728	1.0000
1496	4.954	4.655	0.299	6.035	1.0000
1498	5.161	5.188	-0.026	0.512	1.0000
1500	4.602	4.852	-0.250	5.440	1.0000
1502	5.000	4.974	0.026	0.526	1.0000
1503	5.173	5.163	0.010	0.201	1.0000
1504	5.267	4.821	0.446	8.467	1.0000
1505	5.519	4.733	0.785	14.230	0.5834
1507	5.498	5.087	0.412	7.485	1.0000
1512	5.884	4.805	1.079	18.341	0.4245
1514	4.845	4.653	0.193	3.975	1.0000
1516	4.978	4.806	0.171	3.442	1.0000
1517	5.176	4.744	0.432	8.338	1.0000
1518	5.124	5.152	-0.028	0.553	1.0000
1519	5.146	4.838	0.309	5.997	1.0000
1520	4.602	5.070	-0.468	10.178	0.9781
1522	5.041	4.749	0.292	5.792	1.0000
1528	5.398	4.959	0.439	8.133	1.0000
1529	4.869	4.850	0.019	0.398	1.0000
1530	5.279	4.688	0.591	11.194	0.7753
1534	4.991	4.886	0.105	2.110	1.0000
1539	5.230	4.778	0.452	8.651	1.0000
1540	5.204	5.030	0.174	3.353	1.0000
1541	5.176	5.400	-0.224	4.335	1.0000
1542	5.267	5.045	0.222	4.220	1.0000
1546	5.407	4.802	0.604	11.176	0.7583
1547	4.699	4.782	-0.083	1.770	1.0000
1548	5.677	5.065	0.612	10.781	0.7486
1551	5.477	5.042	0.435	7.948	1.0000
1552	5.114	4.832	0.282	5.512	1.0000
1555	4.653	4.818	-0.165	3.546	1.0000
1556	4.778	4.939	-0.161	3.360	1.0000
1560	5.279	4.928	0.351	6.642	1.0000
1563	4.863	4.755	0.109	2.235	1.0000
1565	5.000	5.093	-0.093	1.867	1.0000
1571	5.322	5.009	0.313	5.884	1.0000
1574	4.602	4.784	-0.182	3.947	1.0000
1578	5.243	4.776	0.467	8.906	0.9812
1579	5.274	4.805	0.469	8.890	0.9771

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1580	4.903	4.657	0.246	5.019	1.0000
1582	4.477	4.818	-0.341	7.607	1.0000
1585	4.886	5.119	-0.232	4.751	1.0000
1587	4.954	4.554	0.400	8.072	1.0000
1588	5.470	4.983	0.487	8.908	0.9403
1591	4.658	4.593	0.065	1.400	1.0000
1592	4.702	4.977	-0.275	5.855	1.0000
1593	4.845	4.810	0.035	0.732	1.0000
1594	5.176	5.021	0.155	3.002	1.0000
1595	4.681	4.793	-0.112	2.396	1.0000
1597	5.000	4.763	0.237	4.735	1.0000
1601	5.322	4.868	0.455	8.544	1.0000
1608	5.312	4.793	0.519	9.769	0.8829
1610	5.255	4.870	0.385	7.332	1.0000
1611	5.544	4.859	0.685	12.352	0.6690
1613	4.903	4.752	0.151	3.084	1.0000
1615	4.602	4.693	-0.091	1.978	1.0000
1618	5.525	5.017	0.508	9.195	0.9018
1620	5.027	4.980	0.047	0.940	1.0000
1621	5.061	4.795	0.266	5.251	1.0000
1622	5.262	4.788	0.475	9.024	0.9647
1623	5.112	4.527	0.585	11.440	0.7833
1626	4.813	4.653	0.160	3.329	1.0000
1628	5.064	4.937	0.128	2.526	1.0000
1629	5.431	4.602	0.829	15.265	0.5526
1630	5.525	5.196	0.329	5.947	1.0000
1632	5.380	5.284	0.096	1.787	1.0000
1633	4.740	4.929	-0.189	3.977	1.0000
1634	5.243	5.187	0.056	1.063	1.0000
1636	4.978	4.766	0.211	4.245	1.0000
1638	5.413	4.909	0.504	9.316	0.9084
1640	5.398	4.668	0.730	13.529	0.6274
1641	5.079	5.064	0.015	0.303	1.0000
1642	4.653	4.780	-0.126	2.715	1.0000
1645	4.978	4.641	0.336	6.759	1.0000
1648	5.134	4.830	0.303	5.904	1.0000
1653	4.681	4.870	-0.188	4.024	1.0000
1654	4.875	4.764	0.111	2.275	1.0000
1655	5.585	5.171	0.415	7.422	1.0000
1656	5.204	5.205	-0.001	0.016	1.0000
1658	5.799	5.179	0.620	10.695	0.7386
1660	4.903	4.676	0.227	4.624	1.0000
1661	5.170	5.008	0.163	3.145	1.0000
1662	5.279	4.853	0.426	8.072	1.0000
1663	4.717	4.775	-0.057	1.215	1.0000
1665	4.845	4.948	-0.103	2.127	1.0000
1666	5.301	4.768	0.533	10.058	0.8593

Robust Multiple Regression Report

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 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1667	5.470	4.818	0.652	11.919	0.7027
1668	5.488	4.981	0.507	9.233	0.9042
1674	5.460	5.109	0.352	6.440	1.0000
1675	5.498	5.173	0.325	5.911	1.0000
1679	5.217	4.812	0.406	7.778	1.0000
1683	5.197	4.799	0.398	7.665	1.0000
1685	4.544	4.793	-0.249	5.481	1.0000
1686	5.332	5.170	0.162	3.039	1.0000
1687	5.342	5.154	0.189	3.530	1.0000
1689	5.000	4.952	0.048	0.953	1.0000
1692	5.512	5.128	0.384	6.963	1.0000
1693	4.568	4.490	0.078	1.713	1.0000
1694	4.973	4.759	0.214	4.312	1.0000
1696	4.699	4.717	-0.018	0.384	1.0000
1697	5.267	4.937	0.330	6.270	1.0000
1699	5.362	4.899	0.463	8.632	0.9899
1702	4.778	4.831	-0.053	1.109	1.0000
1703	4.929	4.492	0.437	8.874	1.0000
1704	4.176	4.686	-0.510	12.220	0.8978
1708	4.954	4.701	0.254	5.119	1.0000
1709	5.455	4.714	0.741	13.581	0.6184
1713	4.690	4.792	-0.102	2.173	1.0000
1715	4.628	4.799	-0.171	3.694	1.0000
1717	5.358	4.956	0.402	7.506	1.0000
1719	4.978	4.809	0.169	3.391	1.0000
1720	5.362	4.862	0.499	9.315	0.9173
1722	4.792	4.743	0.050	1.040	1.0000
1725	4.544	4.713	-0.169	3.713	1.0000
1727	5.000	5.046	-0.046	0.920	1.0000
1732	5.415	5.066	0.349	6.440	1.0000
1734	5.021	4.886	0.135	2.686	1.0000
1735	5.061	4.876	0.184	3.646	1.0000
1738	5.161	4.639	0.522	10.117	0.8774
1740	5.000	4.884	0.116	2.324	1.0000
1743	4.903	4.673	0.230	4.697	1.0000
1745	4.699	4.574	0.125	2.656	1.0000
1747	5.130	4.952	0.178	3.472	1.0000
1749	4.653	4.726	-0.072	1.556	1.0000
1750	5.415	4.926	0.489	9.024	0.9376
1751	4.903	5.118	-0.215	4.386	1.0000
1752	5.312	5.101	0.211	3.970	1.0000
1754	5.458	5.023	0.435	7.962	1.0000
1757	5.130	5.143	-0.012	0.241	1.0000
1758	5.079	5.025	0.054	1.065	1.0000
1759	5.431	4.807	0.625	11.499	0.7336
1762	4.477	4.816	-0.339	7.561	1.0000
1764	5.029	4.511	0.519	10.314	0.8832

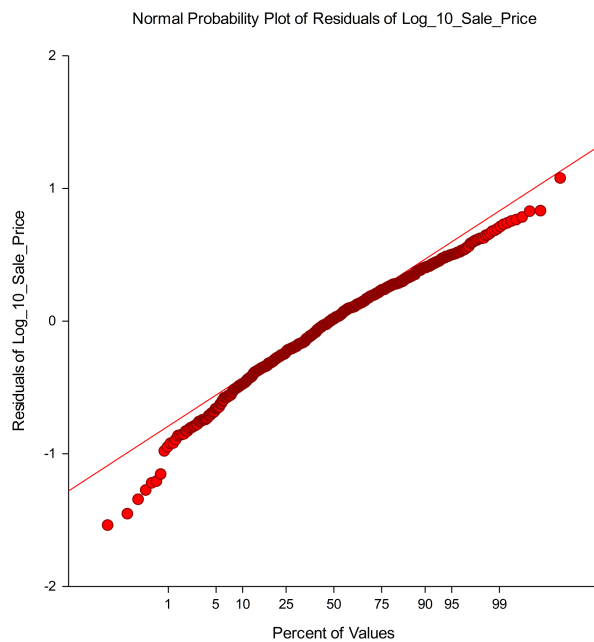
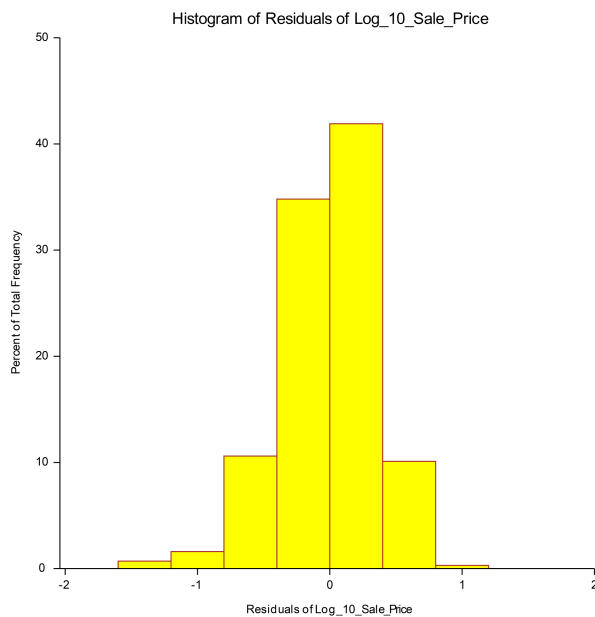
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1773	5.371	5.058	0.313	5.828	1.0000
1777	5.415	4.970	0.445	8.213	1.0000
1780	4.799	4.608	0.192	3.994	1.0000
1781	4.740	4.765	-0.024	0.511	1.0000
1785	5.176	4.892	0.284	5.490	1.0000
1786	5.380	4.954	0.427	7.928	1.0000
1787	5.079	4.795	0.284	5.587	1.0000
1790	4.695	4.886	-0.191	4.070	1.0000
1793	5.230	4.552	0.678	12.964	0.6756
1795	4.866	4.628	0.238	4.899	1.0000
1798	4.929	4.820	0.110	2.223	1.0000
1800	4.771	4.824	-0.053	1.120	1.0000
1801	5.451	4.754	0.697	12.788	0.6573
1802	4.699	4.419	0.280	5.966	1.0000
1805	5.389	5.045	0.344	6.386	1.0000
1806	5.243	4.944	0.299	5.696	1.0000
1809	5.505	4.943	0.562	10.208	0.8153
1810	5.332	4.987	0.345	6.472	1.0000
1812	5.087	4.772	0.315	6.193	1.0000
1815	4.927	4.819	0.108	2.195	1.0000

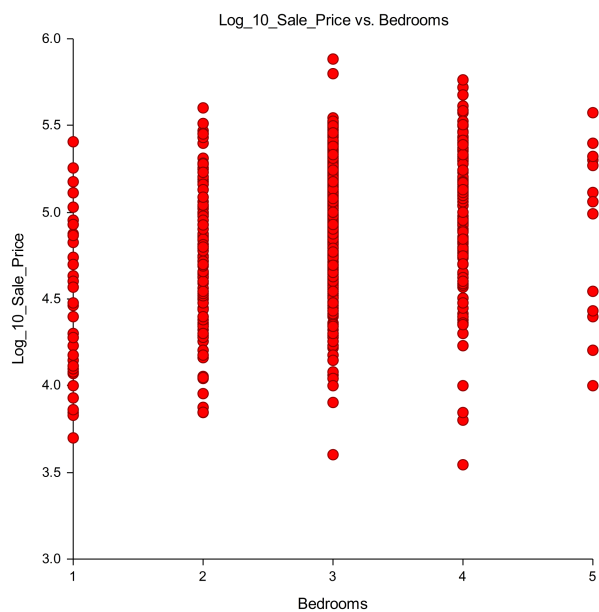
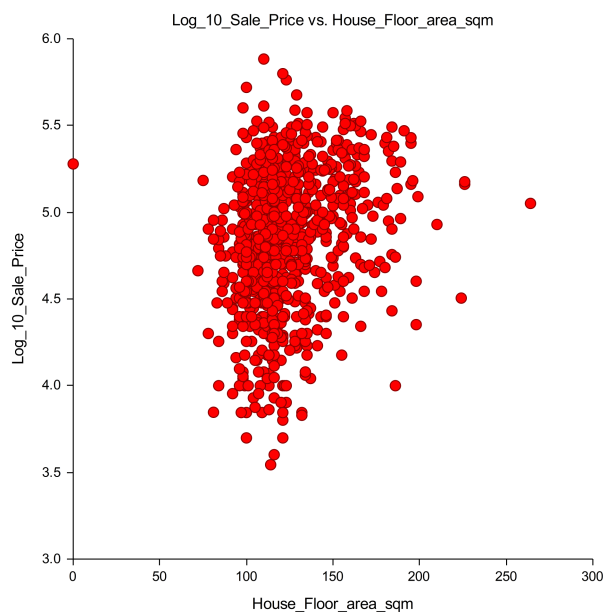
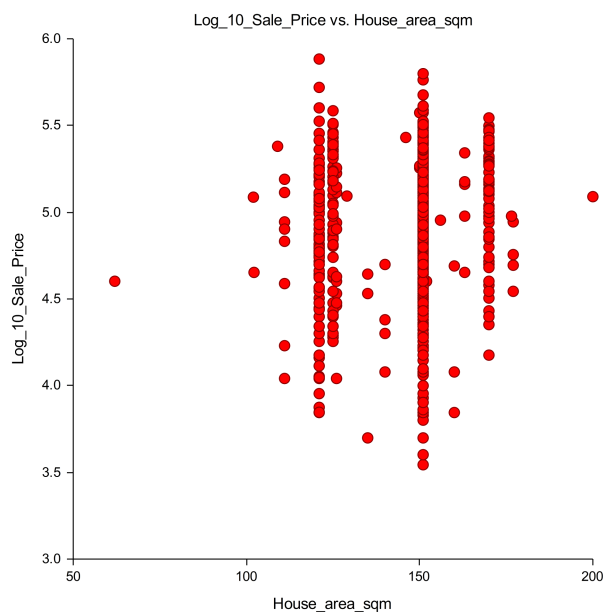
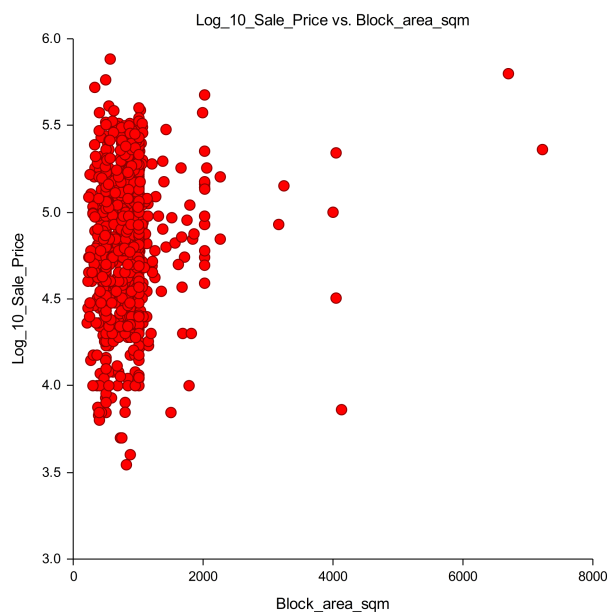
Distributional Plots of Residuals



Robust Multiple Regression Report

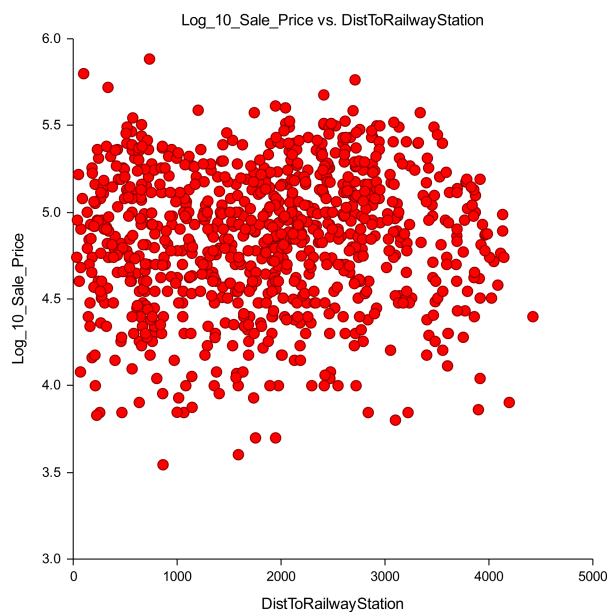
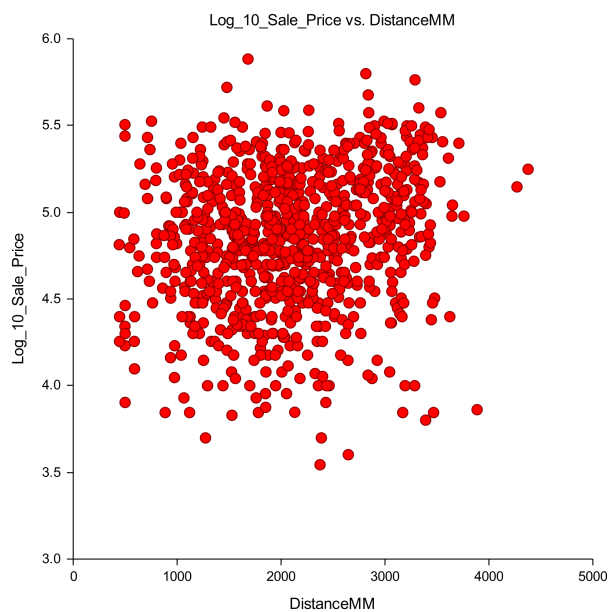
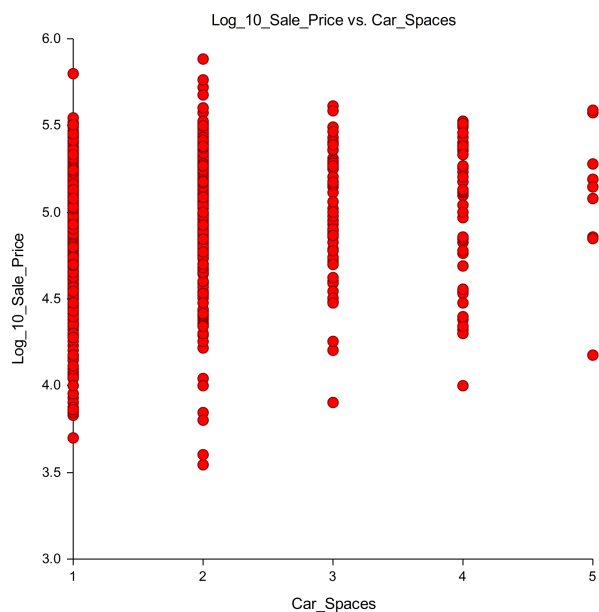
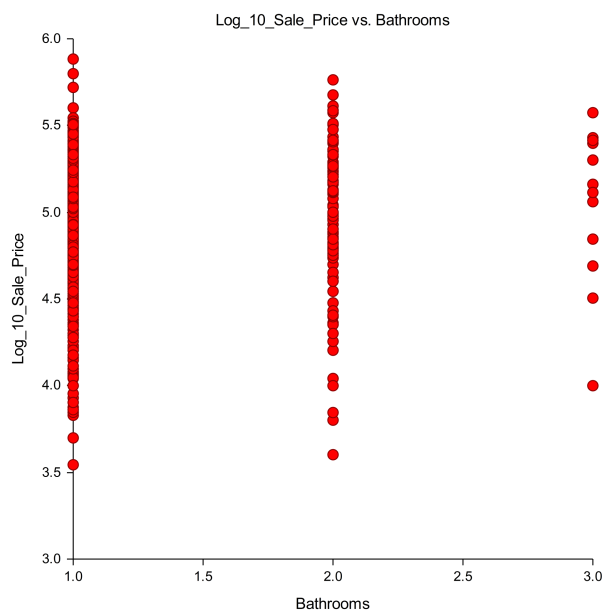
Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Y vs X Plots



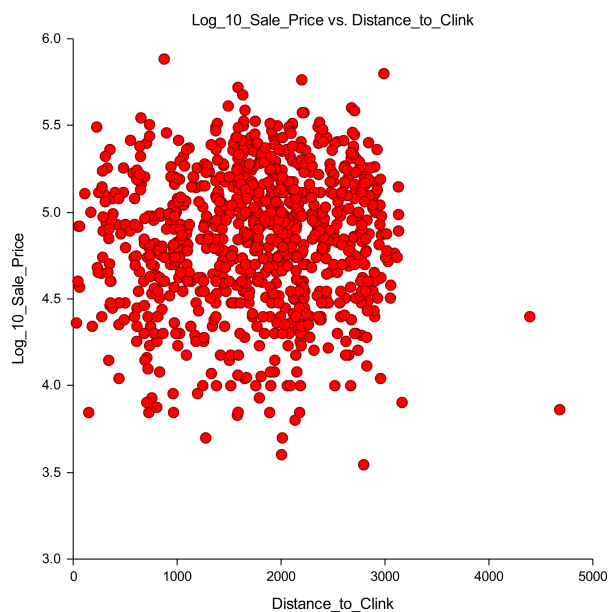
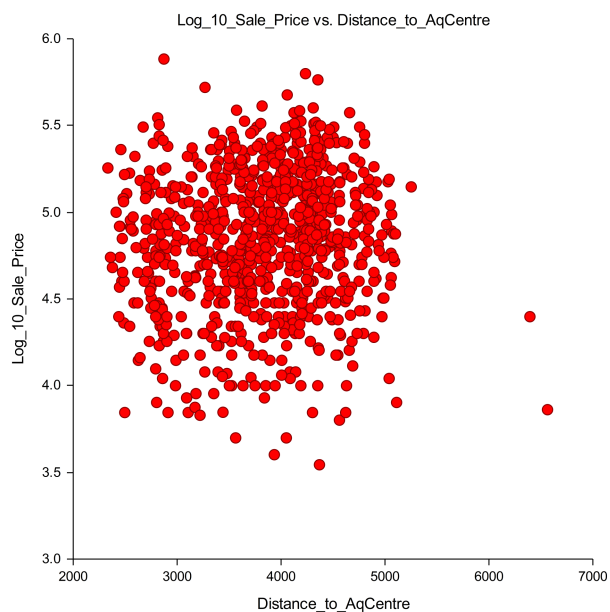
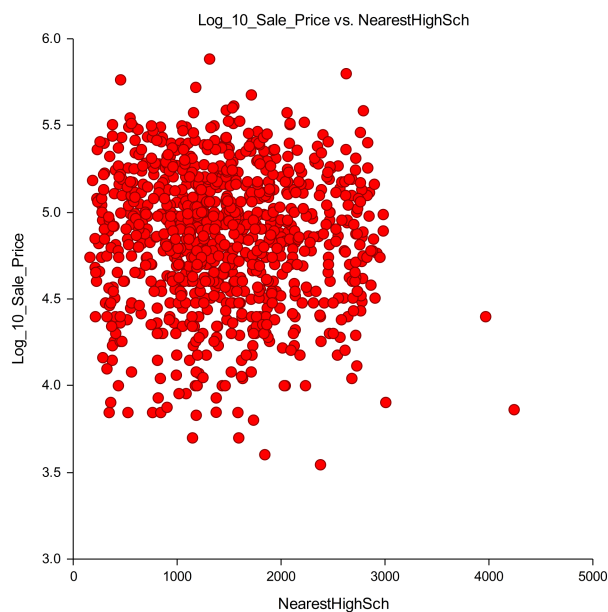
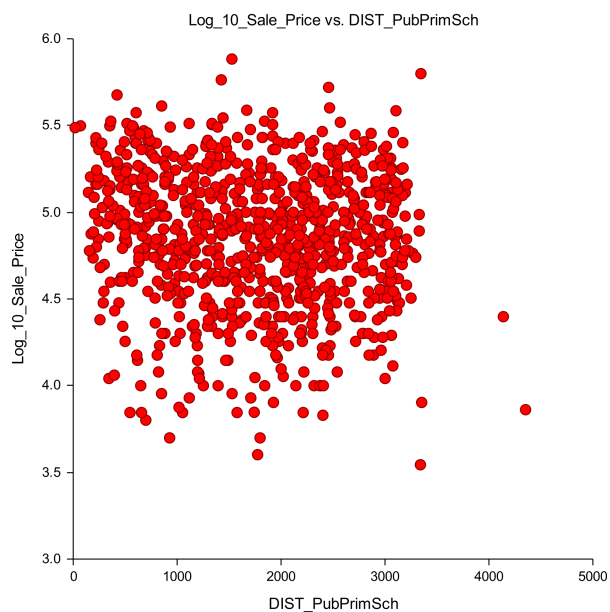
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Y vs X Plots (Continued)

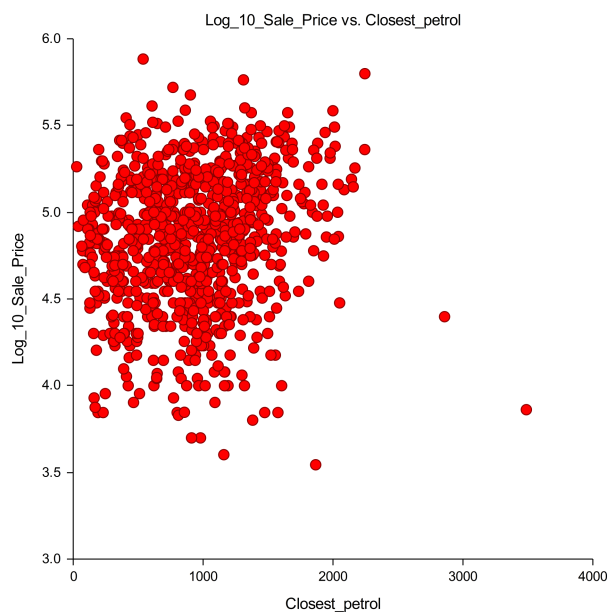
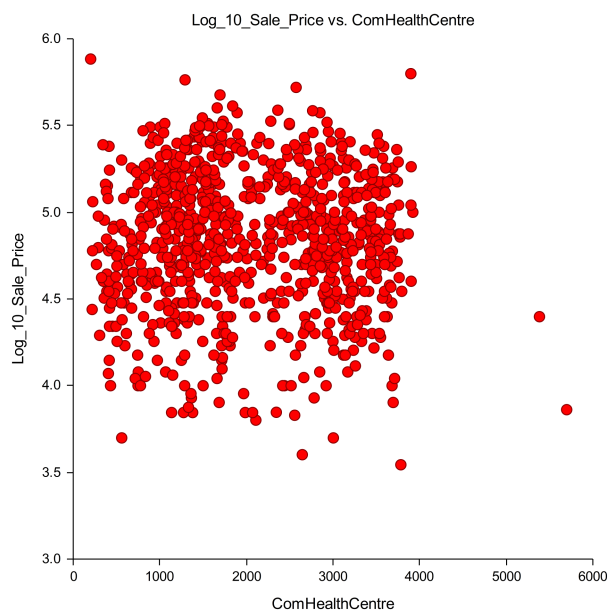
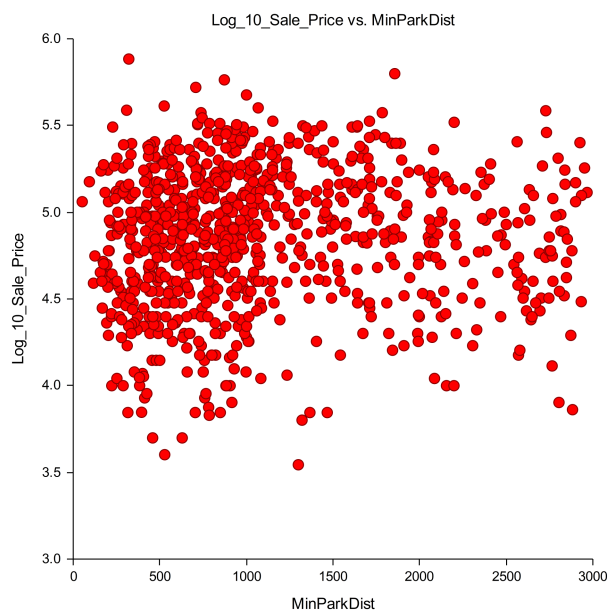
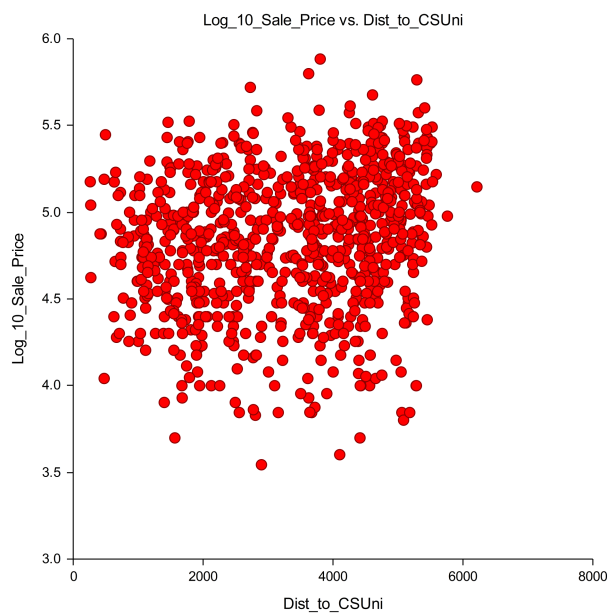
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Y vs X Plots (Continued)

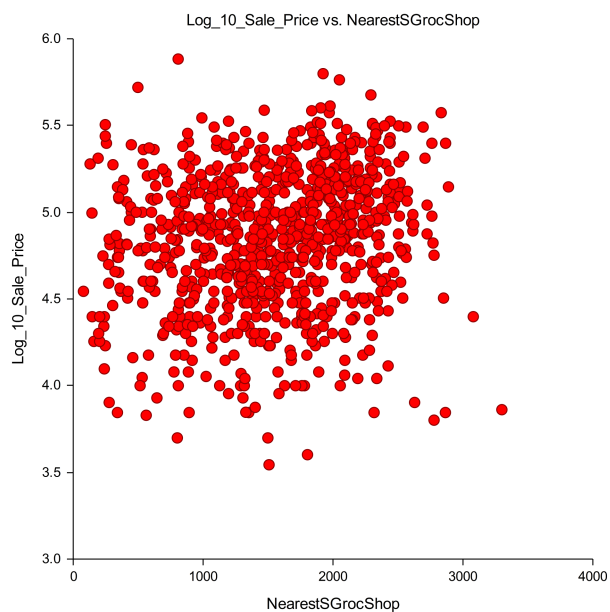
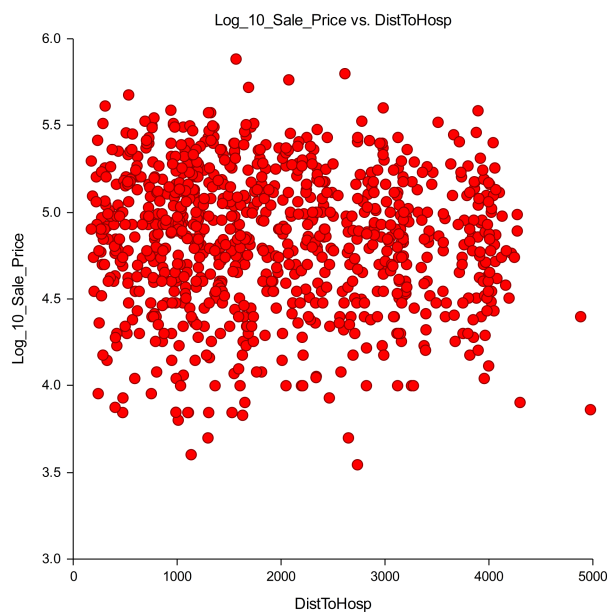
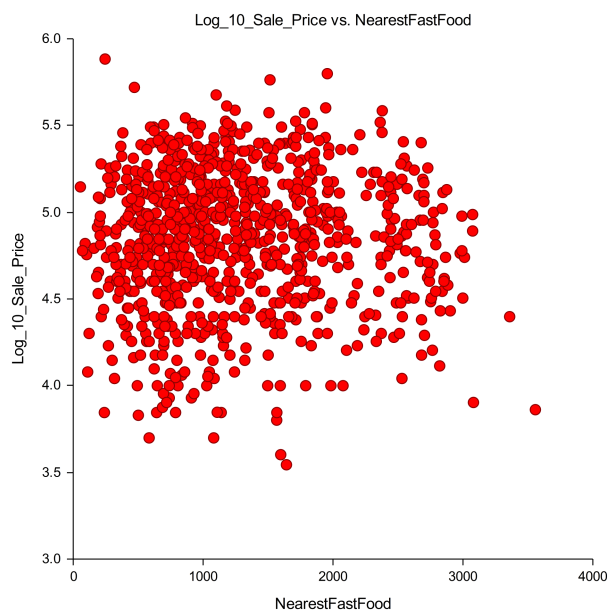
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Y vs X Plots (Continued)

Robust Multiple Regression Report

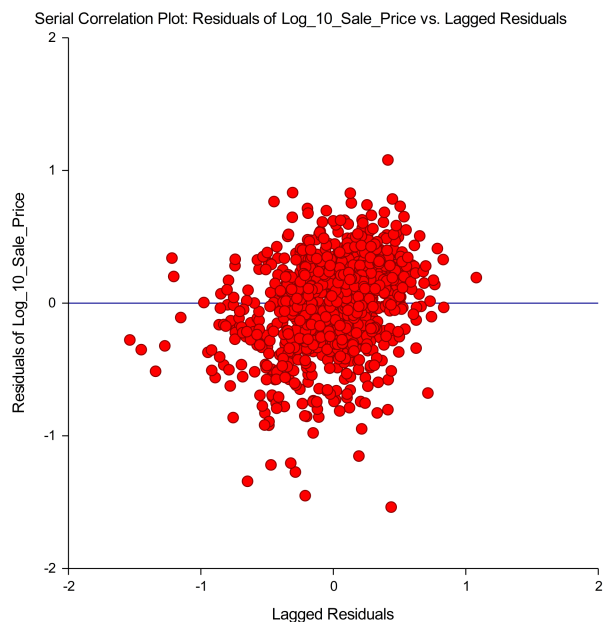
Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Y vs X Plots (Continued)

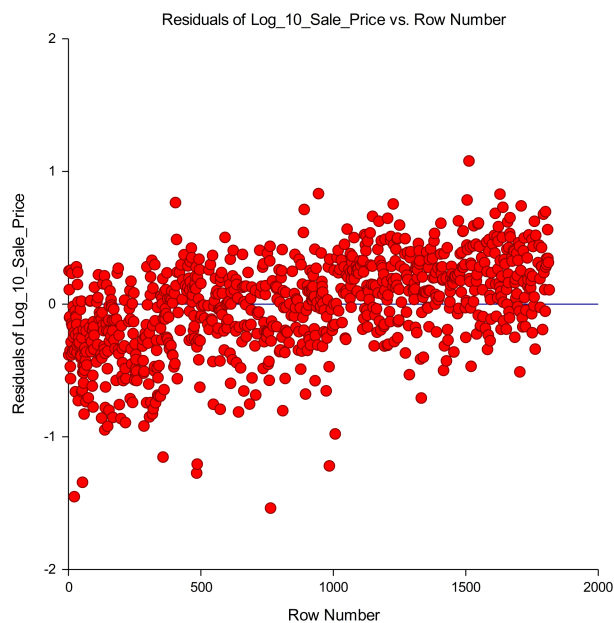
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Serial Correlation Plot: Residuals vs Lagged Residuals



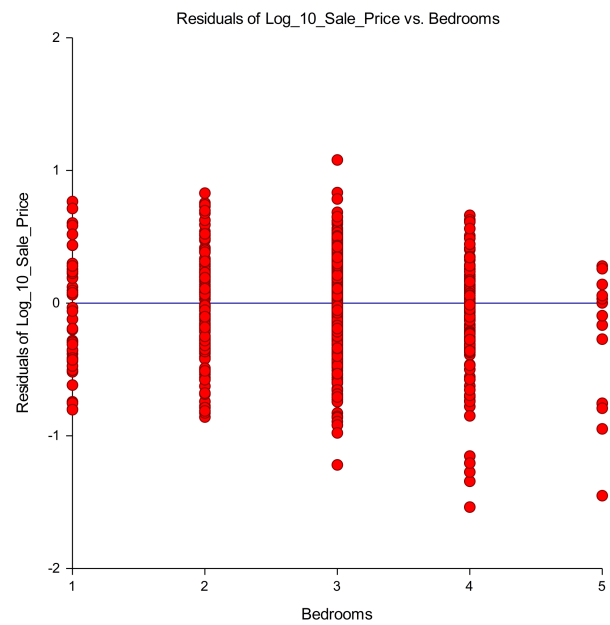
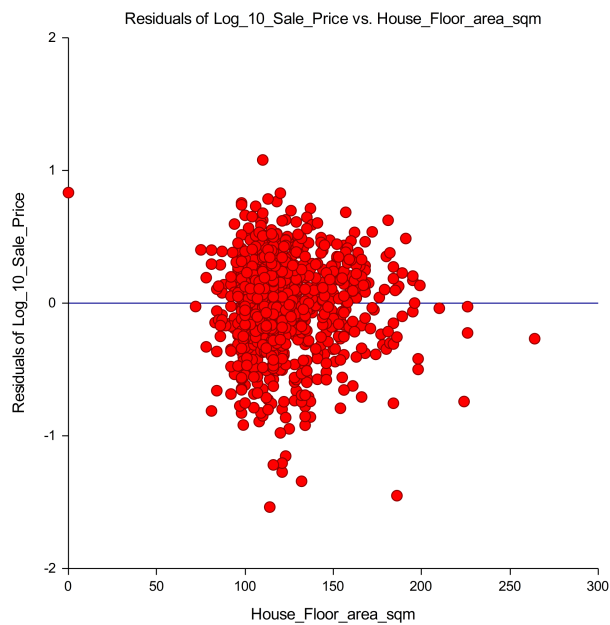
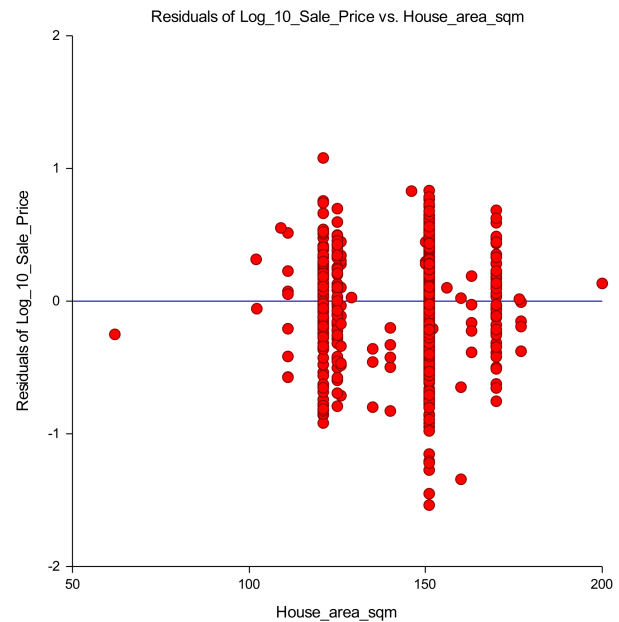
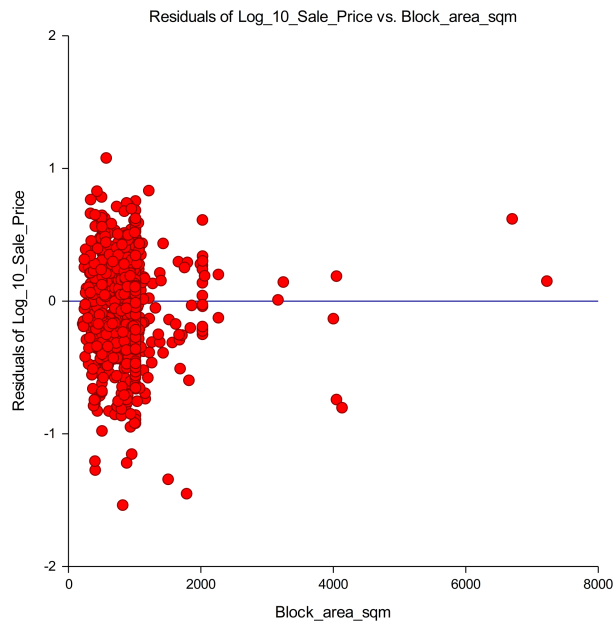
Sequence Plot: Residuals vs Row



Robust Multiple Regression Report

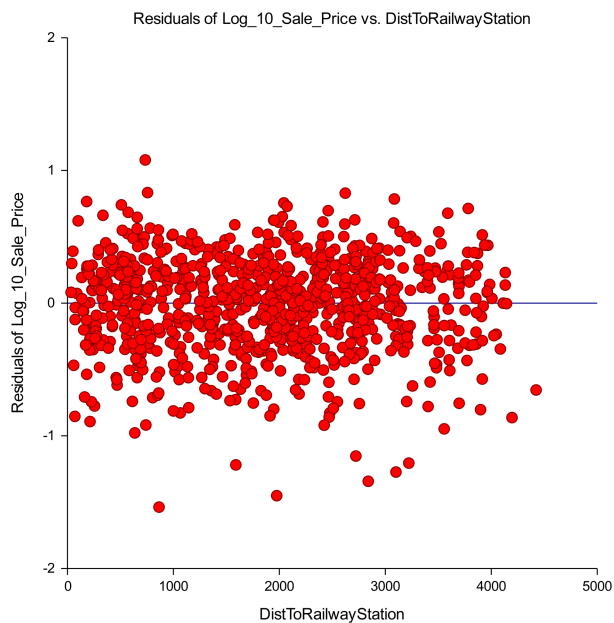
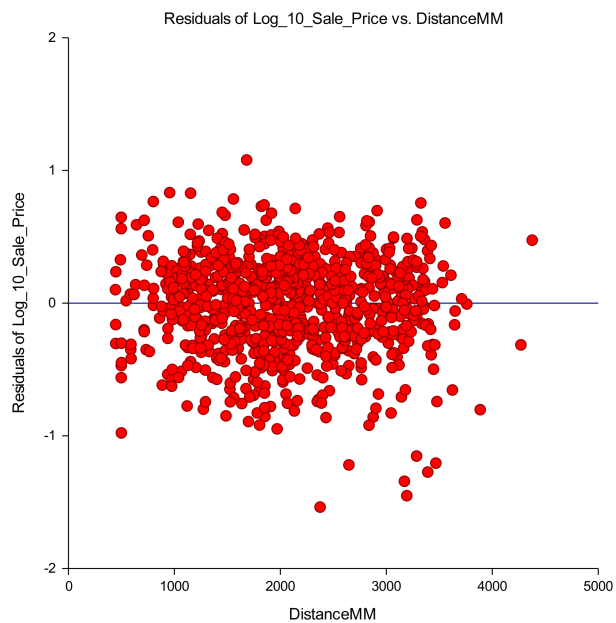
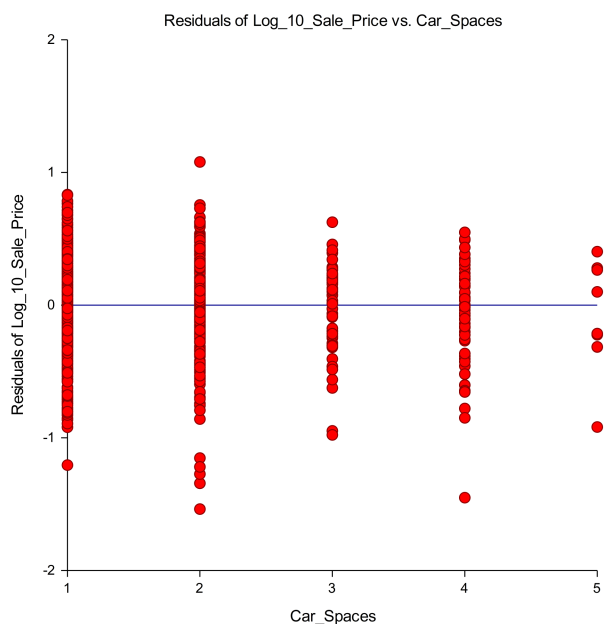
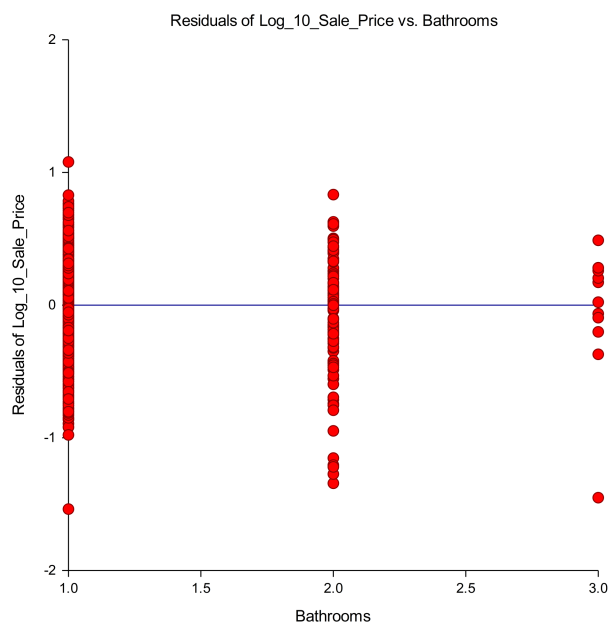
Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Residuals vs X Plots



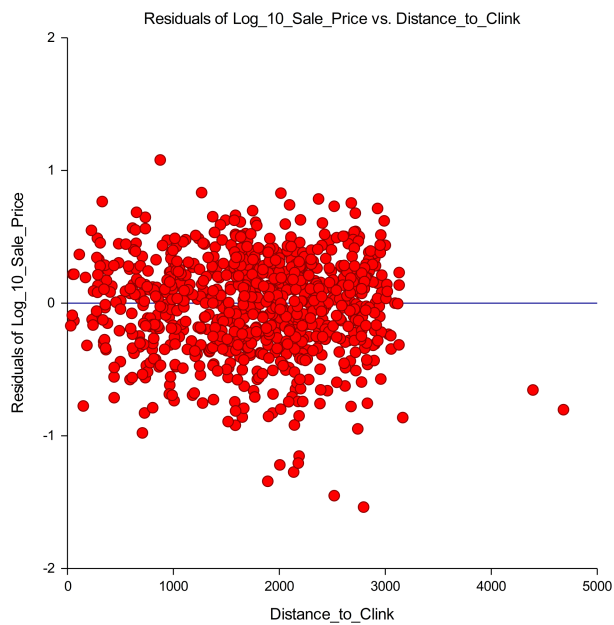
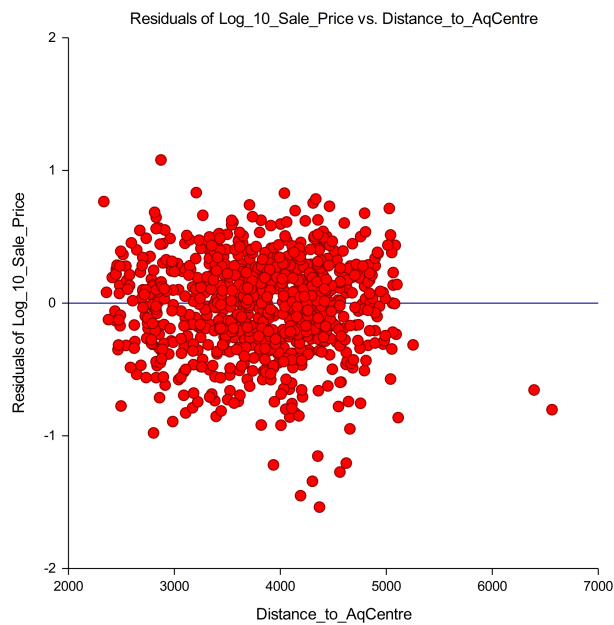
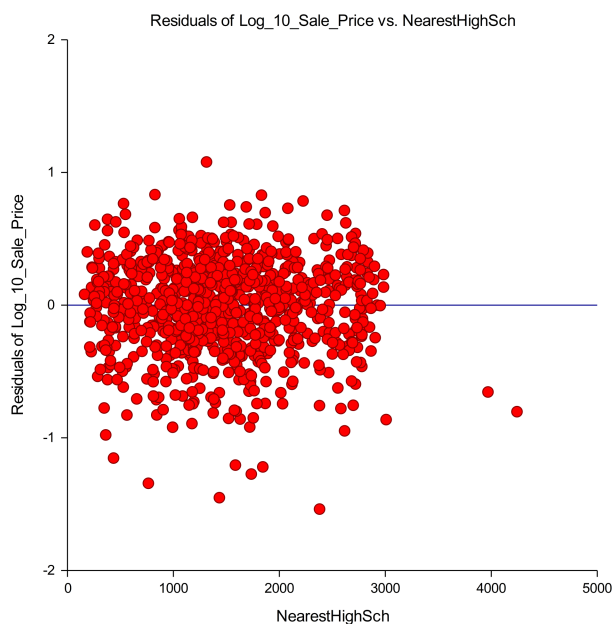
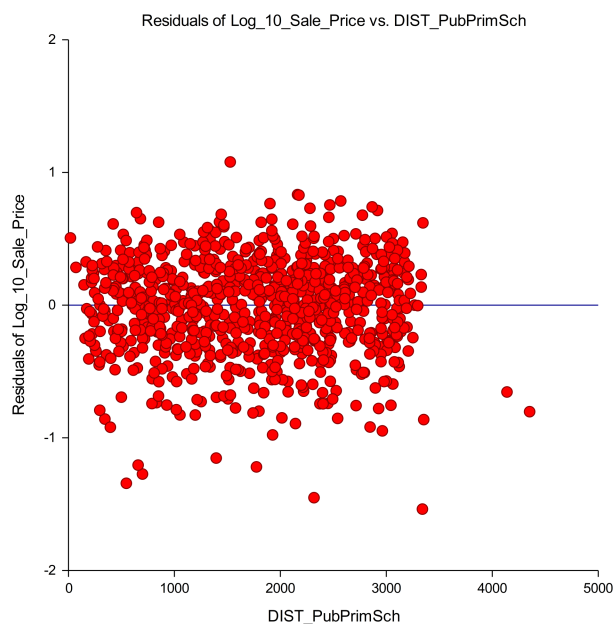
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Residuals vs X Plots (Continued)

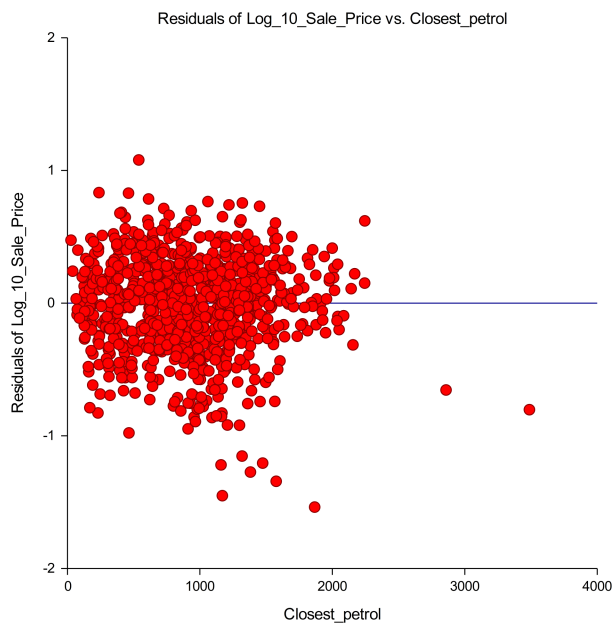
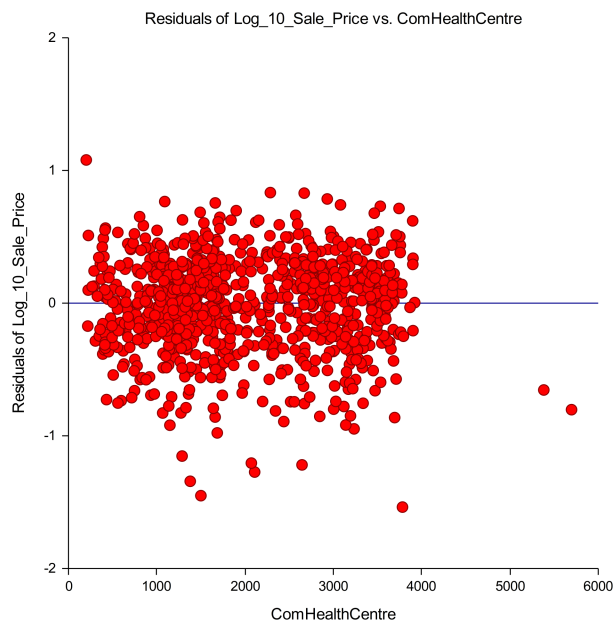
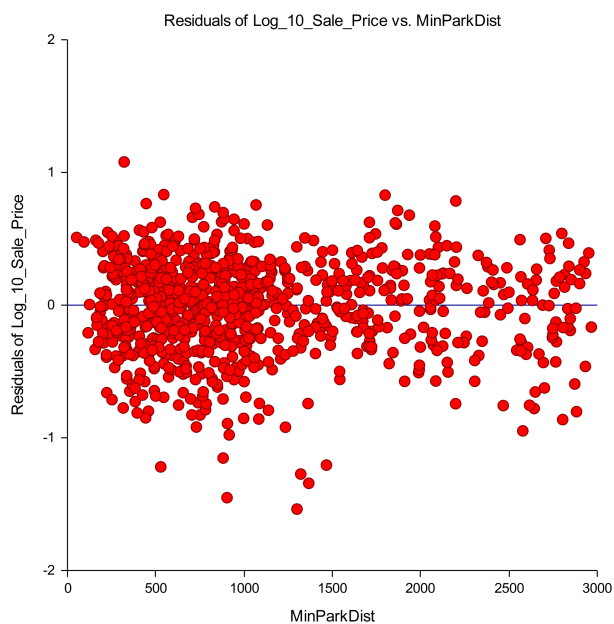
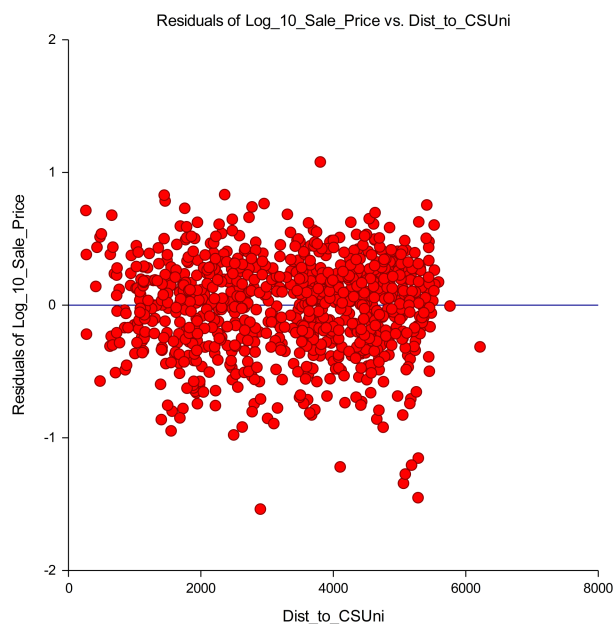
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Residuals vs X Plots (Continued)

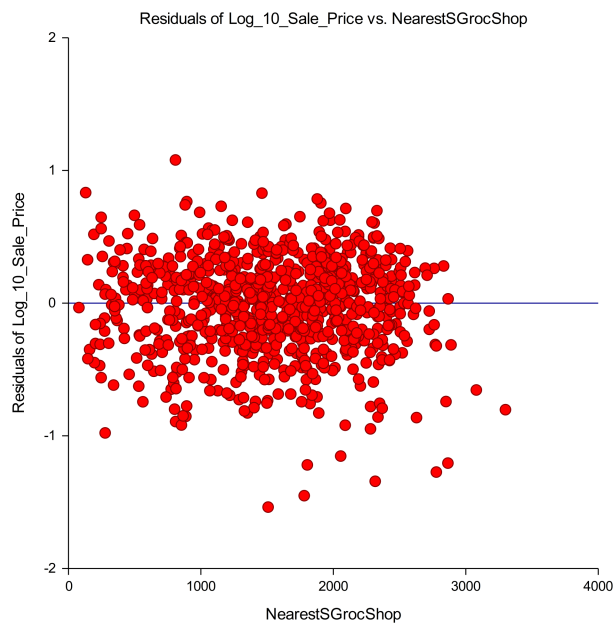
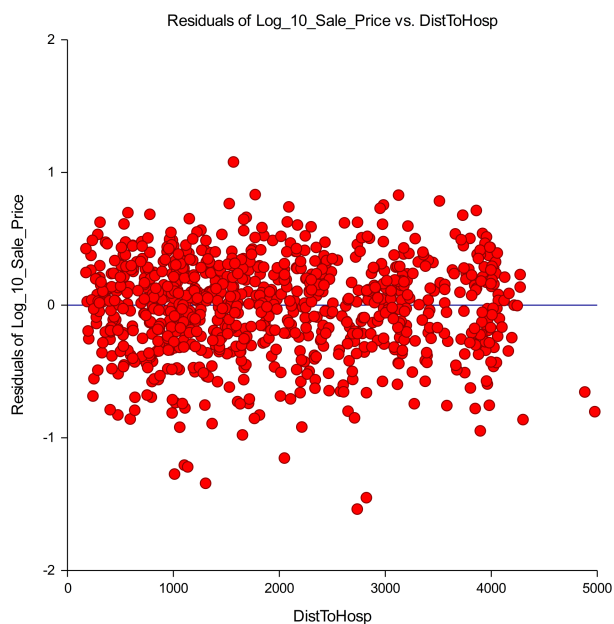
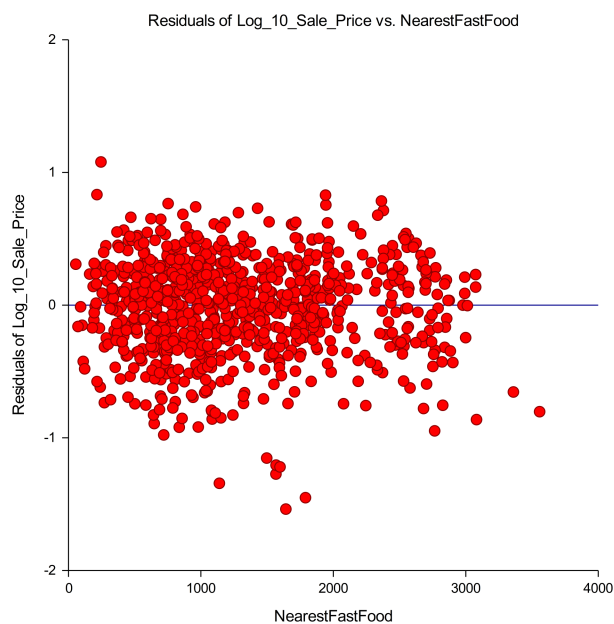
Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Residuals vs X Plots (Continued)

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
Dependent Log_10_Sale_Price

Residuals vs X Plots (Continued)

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Procedure Input Settings**Autosaved Template File**

C:\Users\Dr_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved
 2023_4_11-13_44_25.t158

Variables, Model Tab

-- Variables -----
 Y: Log_10_Sale_Price
 Numeric X's: Block_area_sqm, House_area_sqm,
 House_Floor_area_sqm, Bedrooms, Bathrooms,
 Car_Spaces, DistanceMM, DistToRailwayStation,
 DIST_PubPrimSch, NearestHighSch,
 Distance_to_AqCentre, Distance_to_Clink,
 Dist_to_CSUni, MinParkDist, ComHealthCentre,
 Closest_petrol, NearestFastFood, DistToHosp,
 NearestSGrocShop
 Categorical X's: <Empty>
 Weights: <Empty>

-- Regression Model -----
 Terms: 1-Way
 Remove Intercept: Unchecked

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 \leq : 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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

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

.. 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	
R ²	Checked
Variable Omission	Checked
Sum of Squares	Checked
Sequential Models	Checked
Multicollinearity	Checked
.. 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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Procedure Input Settings (Continued)**Report Options Tab (Continued)**

-- 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
.. 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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\Late2022\Panelresults\Thesis Data\BHTotalData12Sep2022.xlsx
 Dependent Log_10_Sale_Price

Procedure Input Settings (Continued)**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