

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Run Summary Report

Item	Value	Rows	Value
Dependent Variable	Ln_Sale_Price	Number Processed	1816
Number Ind. Variables	23	Number Used in Estimation	900
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	916
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	859.504
Run Information	Value		
Iterations	13		
Max % Change in any Coef	0.000		
R ² after Robust Weighting	0.3784		
S using MAD	0.64		
S using MSE	0.60		
Completion Status	Warnings Issued		

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Descriptive Statistics

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
Block_area_sqm	900	847.604	474.688	0	7224
House_area_sqm	900	143.577	21.512	0	200
House_Floor_area_sqm	900	122.066	25.275	0	264
Bedrooms	900	2.906	0.744	1	5
Bathrooms	900	1.152	0.390	1	3
Car_Spaces	900	1.657	0.901	1	5
DistanceMM	900	2086.745	717.387	442.898021	4376.363816
DistToRailwayStation	900	1871.974	1000.463	34.29750731	4422.740784
DIST_PubPrimSch	900	1745.099	826.456	18.34186983	4352.216985
NearestHighSch	900	1451.865	670.043	161.1115651	4242.345503
Distance_to_AqCentre	900	3819.278	625.433	2333.537576	6563.688285
Distance_to_Clink	900	1757.376	714.931	31.20377581	4681.149451
Dist_to_CSUni	900	3321.088	1328.913	262.4151884	6214.538493
MinParkDist	900	1071.281	684.037	51.96188407	2966.492051
ComHealthCentre	900	2019.429	973.339	140.1193182	5697.608351
Closest_petrol	900	924.839	449.541	26.82141689	3487.565228
NearestFastFood	900	1270.799	680.915	55.31352241	3557.359195
NearestSGrocShop	900	1541.241	597.432	78.67747724	3299.31823
Dummy_2000	900	0.598	0.479	0	1
Dummy_2005	900	0.298	0.447	0	1
Dummy_2010	900	0.104	0.298	0	1
Dummy_2015	900	0.151	0.349	0	1
Dummy_2019	900	0.168	0.365	0	1
Ln_Sale_Price	900	11.875	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		7.58011	0.00006	-0.00020	0.00262
1	150.517	13.26130	0.00004	-0.00051	0.00292
2	100.000	12.37710	0.00003	-0.00061	0.00293
3	142.131	11.89004	0.00003	-0.00065	0.00293
4	336.935	12.34813	0.00003	-0.00067	0.00293
5	1.532	12.34754	0.00003	-0.00067	0.00293
6	434.641	10.93275	0.00003	-0.00067	0.00293
7	219.943	12.34769	0.00003	-0.00067	0.00293
8	124.574	12.75328	0.00003	-0.00067	0.00293
9	100.000	12.34775	0.00003	-0.00067	0.00293
10	0.005	12.34776	0.00003	-0.00067	0.00293
11	340.379	11.23965	0.00003	-0.00067	0.00293
12	329.271	12.34776	0.00003	-0.00067	0.00293
13	0.000	12.34776	0.00003	-0.00067	0.00293

Robust Iterations - Residuals

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.213	0.451	0.767	3.252
1	150.517	0.210	0.431	0.741	3.364
2	100.000	0.209	0.432	0.737	3.384
3	142.131	0.207	0.432	0.734	3.389
4	336.935	0.206	0.431	0.733	3.390
5	1.532	0.206	0.431	0.732	3.390
6	434.641	0.206	0.431	0.732	3.390
7	219.943	0.206	0.431	0.732	3.390
8	124.574	0.206	0.431	0.732	3.390
9	100.000	0.206	0.431	0.732	3.390
10	0.005	0.206	0.431	0.732	3.390
11	340.379	0.206	0.431	0.732	3.390
12	329.271	0.206	0.431	0.732	3.390
13	0.000	0.206	0.431	0.732	3.390

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Regression Coefficients T-Tests Assuming Fixed Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standardized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	12.34776	0.917968	0.0000	13.451	0.0000	Yes
Block_area_sqm	0.00003	0.000049	0.0204	0.666	0.5057	No
House_area_sqm	-0.00067	0.001002	-0.0192	-0.671	0.5022	No
House_Floor_area_sqm	0.00293	0.000907	0.0983	3.231	0.0013	Yes
Bedrooms	0.31279	0.030610	0.3088	10.218	0.0000	Yes
Bathrooms	-0.02920	0.056549	-0.0151	-0.516	0.6058	No
Car_Spaces	0.09486	0.024379	0.1134	3.891	0.0001	Yes
DistanceMM	-0.00002	0.000071	-0.0154	-0.229	0.8187	No
DistToRailwayStation	0.00001	0.000176	0.0192	0.082	0.9347	No
DIST_PubPrimSch	-0.00013	0.000102	-0.1408	-1.253	0.2104	No
NearestHighSch	-0.00017	0.000081	-0.1505	-2.094	0.0366	Yes
Distance_to_AqCentre	-0.00071	0.000393	-0.5917	-1.817	0.0696	No
Distance_to_Clink	0.00070	0.000254	0.6659	2.761	0.0059	Yes
Dist_to_CSUni	-0.00001	0.000084	-0.0115	-0.078	0.9377	No
MinParkDist	-0.00006	0.000093	-0.0502	-0.595	0.5521	No
ComHealthCentre	0.00010	0.000101	0.1349	1.033	0.3018	No
Closest_petrol	0.00004	0.000071	0.0267	0.630	0.5286	No
NearestFastFood	-0.00020	0.000145	-0.1830	-1.400	0.1618	No
NearestSGrocShop	0.00042	0.000186	0.3314	2.251	0.0246	Yes
Dummy_2000	-0.77157	0.075385	-0.4903	-10.235	0.0000	Yes
Dummy_2005	-0.32555	0.074585	-0.1929	-4.365	0.0000	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.56396	0.067233	0.2614	8.388	0.0000	Yes
Dummy_2019	0.52525	0.064550	0.2546	8.137	0.0000	Yes

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Regression Coefficients T-Tests Assuming Random Weights

Independent Variable	Regression Coefficient b(i)	Standard Error Sb(i)	Standardized Coefficient	T-Statistic to Test H0: $\beta(i)=0$	Prob Level	Reject H0 at 5%?
Intercept	12.34776	3284251.471461	0.0000	0.000	1.0000	No
Block_area_sqm	0.00003	0.000053	0.0204	0.614	0.5395	No
House_area_sqm	-0.00067	0.001089	-0.0192	-0.618	0.5370	No
House_Floor_area_sqm	0.00293	0.000988	0.0983	2.968	0.0031	Yes
Bedrooms	0.31279	0.033134	0.3088	9.440	0.0000	Yes
Bathrooms	-0.02920	0.061674	-0.0151	-0.473	0.6360	No
Car_Spaces	0.09486	0.027007	0.1134	3.512	0.0005	Yes
DistanceMM	-0.00002	0.000078	-0.0154	-0.207	0.8363	No
DistToRailwayStation	0.00001	0.000191	0.0192	0.076	0.9397	No
DIST_PubPrimSch	-0.00013	0.000112	-0.1408	-1.143	0.2534	No
NearestHighSch	-0.00017	0.000088	-0.1505	-1.915	0.0558	No
Distance_to_AqCentre	-0.00071	0.000419	-0.5917	-1.702	0.0890	No
Distance_to_Clink	0.00070	0.000272	0.6659	2.578	0.0101	Yes
Dist_to_CSUni	-0.00001	0.000092	-0.0115	-0.071	0.9431	No
MinParkDist	-0.00006	0.000101	-0.0502	-0.547	0.5847	No
ComHealthCentre	0.00010	0.000110	0.1349	0.946	0.3444	No
Closest_petrol	0.00004	0.000078	0.0267	0.574	0.5664	No
NearestFastFood	-0.00020	0.000159	-0.1830	-1.276	0.2022	No
NearestSGrocShop	0.00042	0.000203	0.3314	2.058	0.0399	Yes
Dummy_2000	-0.77157	3284251.471460	-0.4903	0.000	1.0000	No
Dummy_2005	-0.32555	3284251.471460	-0.1929	0.000	1.0000	No
Dummy_2010	0.00000	3284251.471460	0.0000	0.000	1.0000	No
Dummy_2015	0.56396	0.073887	0.2614	7.633	0.0000	Yes
Dummy_2019	0.52525	0.071060	0.2546	7.392	0.0000	Yes

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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	12.34776	0.917968	10.54858	14.14695
Block_area_sqm	0.00003	0.000049	-0.00006	0.00013
House_area_sqm	-0.00067	0.001002	-0.00264	0.00129
House_Floor_area_sqm	0.00293	0.000907	0.00115	0.00471
Bedrooms	0.31279	0.030610	0.25279	0.37278
Bathrooms	-0.02920	0.056549	-0.14003	0.08164
Car_Spaces	0.09486	0.024379	0.04708	0.14264
DistanceMM	-0.00002	0.000071	-0.00015	0.00012
DistToRailwayStation	0.00001	0.000176	-0.00033	0.00036
DIST_PubPrimSch	-0.00013	0.000102	-0.00033	0.00007
NearestHighSch	-0.00017	0.000081	-0.00033	-0.00001
Distance_to_AqCentre	-0.00071	0.000393	-0.00148	0.00006
Distance_to_Clink	0.00070	0.000254	0.00020	0.00120
Dist_to_CSUni	-0.00001	0.000084	-0.00017	0.00016
MinParkDist	-0.00006	0.000093	-0.00024	0.00013
ComHealthCentre	0.00010	0.000101	-0.00009	0.00030
Closest_petrol	0.00004	0.000071	-0.00009	0.00018
NearestFastFood	-0.00020	0.000145	-0.00049	0.00008
NearestSGrocShop	0.00042	0.000186	0.00005	0.00078
Dummy_2000	-0.77157	0.075385	-0.91933	-0.62382
Dummy_2005	-0.32555	0.074585	-0.47174	-0.17937
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.56396	0.067233	0.43219	0.69574
Dummy_2019	0.52525	0.064550	0.39873	0.65176

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	12.34776	3284251.471461	-6437002.25264	6437026.94817
Block_area_sqm	0.00003	0.000053	-0.00007	0.00014
House_area_sqm	-0.00067	0.001089	-0.00281	0.00146
House_Floor_area_sqm	0.00293	0.000988	0.00100	0.00487
Bedrooms	0.31279	0.033134	0.24785	0.37773
Bathrooms	-0.02920	0.061674	-0.15008	0.09168
Car_Spaces	0.09486	0.027007	0.04193	0.14779
DistanceMM	-0.00002	0.000078	-0.00017	0.00014
DistToRailwayStation	0.00001	0.000191	-0.00036	0.00039
DIST_PubPrimSch	-0.00013	0.000112	-0.00035	0.00009
NearestHighSch	-0.00017	0.000088	-0.00034	0.00000
Distance_to_AqCentre	-0.00071	0.000419	-0.00153	0.00011
Distance_to_Clink	0.00070	0.000272	0.00017	0.00124
Dist_to_CSUni	-0.00001	0.000092	-0.00019	0.00017
MinParkDist	-0.00006	0.000101	-0.00025	0.00014
ComHealthCentre	0.00010	0.000110	-0.00011	0.00032
Closest_petrol	0.00004	0.000078	-0.00011	0.00020
NearestFastFood	-0.00020	0.000159	-0.00051	0.00011
NearestSGrocShop	0.00042	0.000203	0.00002	0.00082
Dummy_2000	-0.77157	3284251.471460	-6437015.37198	6437013.82883
Dummy_2005	-0.32555	3284251.471460	-6437014.92596	6437014.27485
Dummy_2010	0.00000	3284251.471460		
Dummy_2015	0.56396	0.073887	0.41915	0.70878
Dummy_2019	0.52525	0.071060	0.38597	0.66452

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

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Estimated Equation

Ln_Sale_Price =

12.3477630356362 + 3.2320639366705E-05 * Block_area_sqm - 0.000672888827059047 * House_area_sqm + 0.0029308217170802 * House_Floor_area_sqm + 0.312786208776738 * Bedrooms - 0.0291975046821479 * Bathrooms + 0.0948612123482977 * Car_Spaces - 1.61948716936317E-05 * DistanceMM + 1.443486494491E-05 * DistToRailwayStation - 0.000128443644367812 * DIST_PubPrimSch - 0.000169301592076535 * NearestHighSch - 0.00071317721452125 * Distance_to_AqCentre + 0.000702170404478033 * Distance_to_Clink - 6.54409667196699E-06 * Dist_to_CSUni - 5.52768151617212E-05 * MinParkDist + 0.000104464828545736 * ComHealthCentre + 4.4853765524806E-05 * Closest_petrol - 0.000202639398886405 * NearestFastFood + 0.000418133696964707 * NearestSGrocShop - 0.771574891391147 * Dummy_2000 - 0.325551882796025 * Dummy_2005 + 0 * Dummy_2010 + 0.563964506787334 * Dummy_2015 + 0.525247724459307 * Dummy_2019

Analysis of Variance

Source	DF	R ²	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		121208.01	121208.01		
Model	23	0.3784	193.29	8.40	23.183	0.0000
Error	876	0.6216	317.56	0.36		
Total(Adjusted)	899	1.0000	510.85	0.57		

PRESS Report

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	443.18	317.56
Sum of Residuals	487.01	474.95
R ²	0.1325	0.3784

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Normality Tests

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.974	0.0000	Yes
Anderson Darling	3.402	0.0000	Yes
D'Agostino Skewness	-9.196	0.0000	Yes
D'Agostino Kurtosis	6.098	0.0000	Yes
D'Agostino Omnibus	121.755	0.0000	Yes

Serial Correlation of Residuals

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.0419	9	0.0798	17	-0.0577
2	0.0031	10	0.0912	18	-0.0351
3	0.0046	11	0.0171	19	-0.0353
4	0.0037	12	0.0085	20	0.0120
5	0.0290	13	-0.0268	21	0.0616
6	-0.0084	14	-0.0083	22	-0.0166
7	-0.0011	15	0.0394	23	-0.0647
8	-0.0421	16	-0.0035	24	-0.0167

Above serial correlations are significant if their absolute values are greater than 0.0667.

Durbin-Watson Test For Serial Correlation

Parameter	Test Statistic to Test H0: $\rho(1) = 0$?	Reject H0 at 20%?
Durbin-Watson Value	1.915	
Prob. Level: Positive Serial Correlation	0.4754	No
Prob. Level: Negative Serial Correlation	0.5111	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	0.0226	0.0226	0.0003	0.0226	0.0005
House_area_sqm	0.0315	0.0089	0.0003	0.0123	0.0005
House_Floor_area_sqm	0.0805	0.0490	0.0074	0.0727	0.0118
Bedrooms	0.2081	0.1276	0.0741	0.1677	0.1065
Bathrooms	0.2082	0.0001	0.0002	0.0243	0.0003
Car_Spaces	0.2249	0.0166	0.0107	0.0733	0.0170
DistanceMM	0.2440	0.0191	0.0000	0.0558	0.0001
DistToRailwayStation	0.2471	0.0031	0.0000	0.0040	0.0000
DIST_PubPrimSch	0.2494	0.0022	0.0011	0.0160	0.0018
NearestHighSch	0.2502	0.0008	0.0031	0.0003	0.0050
Distance_to_AqCentre	0.2534	0.0032	0.0023	0.0103	0.0038
Distance_to_Clink	0.2594	0.0061	0.0054	0.0057	0.0086
Dist_to_CSUni	0.2595	0.0001	0.0000	0.0449	0.0000
MinParkDist	0.2672	0.0077	0.0003	0.0014	0.0004
ComHealthCentre	0.2685	0.0013	0.0008	0.0003	0.0012
Closest_petrol	0.2691	0.0006	0.0003	0.0453	0.0005
NearestFastFood	0.2691	0.0000	0.0014	0.0009	0.0022
NearestSGrocShop	0.2719	0.0028	0.0036	0.0434	0.0058
Dummy_2000	0.2945	0.0226	0.0743	0.0321	0.1068
Dummy_2005	0.3079	0.0133	0.0135	0.0072	0.0213
Dummy_2010	0.0000	0.0000	0.0000	0.0256	0.0000
Dummy_2015	0.3314	0.0235	0.0499	0.0160	0.0744
Dummy_2019	0.3784	0.0470	0.0470	0.0065	0.0703

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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	0.3784	0.36			
Block_area_sqm	0.3781	0.36	22.443	0.5057	0.2404
House_area_sqm	0.3781	0.36	22.451	0.5022	0.1326
House_Floor_area_sqm	0.3710	0.37	32.439	0.0013	0.2329
Bedrooms	0.3043	0.41	126.416	0.0000	0.2229
Bathrooms	0.3782	0.36	22.267	0.6058	0.1708
Car_Spaces	0.3676	0.37	37.140	0.0001	0.1641
DistanceMM	0.3783	0.36	22.053	0.8187	0.8429
DistToRailwayStation	0.3784	0.36	22.007	0.9347	0.9870
DIST_PubPrimSch	0.3773	0.36	23.571	0.2104	0.9438
NearestHighSch	0.3753	0.36	26.384	0.0366	0.8626
Distance_to_AqCentre	0.3760	0.36	25.300	0.0696	0.9933
Distance_to_Clink	0.3730	0.37	29.625	0.0059	0.9878
Dist_to_CSUni	0.3784	0.36	22.006	0.9377	0.9674
MinParkDist	0.3781	0.36	22.354	0.5521	0.9002
ComHealthCentre	0.3776	0.36	23.067	0.3018	0.9584
Closest_petrol	0.3781	0.36	22.397	0.5286	0.6058
NearestFastFood	0.3770	0.36	23.961	0.1618	0.9585
NearestSGrocShop	0.3748	0.36	27.069	0.0246	0.9672
Dummy_2000	0.3040	0.41	126.757	0.0000	0.6908
Dummy_2005	0.3649	0.37	41.052	0.0000	0.6369
Dummy_2010	0.3784	0.36	22.000	1.0000	
Dummy_2015	0.3284	0.39	92.362	0.0000	0.2693
Dummy_2019	0.3314	0.39	88.212	0.0000	0.2754

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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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	11.55	11.55	0.16	0.1504	0.0225
House_area_sqm	16.09	4.53	0.16	0.1109	-0.0227
House_Floor_area_sqm	41.14	25.05	3.78	0.2697	0.1085
Bedrooms	106.32	65.17	37.85	0.4095	0.3263
Bathrooms	106.37	0.05	0.10	0.1560	-0.0174
Car_Spaces	114.87	8.50	5.49	0.2707	0.1303
DistanceMM	124.65	9.78	0.02	0.2362	-0.0077
DistToRailwayStation	126.25	1.60	0.00	0.0630	0.0028
DIST_PubPrimSch	127.38	1.13	0.57	-0.1266	-0.0423
NearestHighSch	127.81	0.42	1.59	-0.0187	-0.0706
Distance_to_AqCentre	129.43	1.63	1.20	0.1016	-0.0613
Distance_to_Clink	132.52	3.09	2.76	0.0756	0.0929
Dist_to_CSUni	132.59	0.06	0.00	0.2118	-0.0026
MinParkDist	136.50	3.92	0.13	0.0371	-0.0201
ComHealthCentre	137.18	0.68	0.39	-0.0167	0.0349
Closest_petrol	137.49	0.31	0.14	0.2128	0.0213
NearestFastFood	137.49	0.00	0.71	0.0295	-0.0473
NearestSGrocShop	138.90	1.41	1.84	0.2082	0.0759
Dummy_2000	150.47	11.57	37.97	-0.1790	-0.3268
Dummy_2005	157.28	6.81	6.91	0.0851	-0.1459
Dummy_2010	0.00	0.00	0.00	0.1601	0.0000
Dummy_2015	169.29	12.01	25.51	0.1264	0.2727
Dummy_2019	193.29	24.00	24.00	0.0809	0.2651

Robust Multiple Regression Report

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Dependent Ln_Sale_Price

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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	0.0226	20.781	0.0000	0.3558	22.788	0.0000
House_area_sqm	0.0315	14.584	0.0000	0.3469	23.278	0.0000
House_Floor_area_sqm	0.0805	26.160	0.0000	0.2978	20.986	0.0000
Bedrooms	0.2081	58.804	0.0000	0.1703	12.628	0.0000
Bathrooms	0.2082	47.019	0.0000	0.1702	13.322	0.0000
Car_Spaces	0.2249	43.173	0.0000	0.1535	12.726	0.0000
DistanceMM	0.2440	41.127	0.0000	0.1344	11.836	0.0000
DistToRailwayStation	0.2471	36.560	0.0000	0.1312	12.330	0.0000
DIST_PubPrimSch	0.2494	32.849	0.0000	0.1290	12.988	0.0000
NearestHighSch	0.2502	29.662	0.0000	0.1282	13.897	0.0000
Distance_to_AqCentre	0.2534	27.395	0.0000	0.1250	14.680	0.0000
Distance_to_Clink	0.2594	25.892	0.0000	0.1190	15.240	0.0000
Dist_to_CSUni	0.2595	23.889	0.0000	0.1188	16.746	0.0000
MinParkDist	0.2672	23.051	0.0000	0.1112	17.407	0.0000
ComHealthCentre	0.2685	21.635	0.0000	0.1098	19.350	0.0000
Closest_petrol	0.2691	20.323	0.0000	0.1092	21.991	0.0000
NearestFastFood	0.2691	19.106	0.0000	0.1092	25.655	0.0000
NearestSGrocShop	0.2719	18.278	0.0000	0.1065	30.009	0.0000
Dummy_2000	0.2945	19.338	0.0000	0.0838	29.533	0.0000
Dummy_2005	0.3079	19.551	0.0000	0.0705	33.114	0.0000
Dummy_2010	0.0000	0.000	1.0000	0.3784	266.608	0.0000
Dummy_2015	0.3314	19.758	0.0000	0.0470	66.212	0.0000
Dummy_2019	0.3784	23.183	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\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Multicollinearity Report

Independent Variable	Variance Inflation Factor	R ² Versus Other I.V.'s	Tolerance	Diagonal of X'X Inverse
Block_area_sqm	1.3164	0.2404	0.7596	6.4987087706656E-09
House_area_sqm	1.1529	0.1326	0.8674	2.77123700357725E-06
House_Floor_area_sqm	1.3037	0.2329	0.7671	2.26989120559499E-06
Bedrooms	1.2868	0.2229	0.7771	0.0025847170562225
Bathrooms	1.2060	0.1708	0.8292	0.00882133840935581
Car_Spaces	1.1963	0.1641	0.8359	0.00163955418630931
DistanceMM	6.3638	0.8429	0.1571	1.37546387971282E-08
DistToRailwayStation	76.9199	0.9870	0.0130	8.5482396194384E-08
DIST_PubPrimSch	17.7863	0.9438	0.0562	2.89657831101239E-08
NearestHighSch	7.2791	0.8626	0.1374	1.80347163264082E-08
Distance_to_AqCentre	149.5283	0.9933	0.0067	4.252087615936E-07
Distance_to_Clink	81.9677	0.9878	0.0122	1.78383423372466E-07
Dist_to_CSUni	30.6712	0.9674	0.0326	1.93186985920137E-08
MinParkDist	10.0216	0.9002	0.0998	2.38241542380821E-08
ComHealthCentre	24.0205	0.9584	0.0416	2.82029305293149E-08
Closest_petrol	2.5366	0.6058	0.3942	1.39624138207945E-08
NearestFastFood	24.0766	0.9585	0.0415	5.77630689932543E-08
NearestSGrocShop	30.5300	0.9672	0.0328	9.51458768283973E-08
Dummy_2000	3.2344	0.6908	0.3092	0.0156768395336387
Dummy_2005	2.7537	0.6369	0.3631	0.0153456605772558
Dummy_2010	0.0000			0
Dummy_2015	1.3686	0.2693	0.7307	0.0124694659927587
Dummy_2019	1.3800	0.2754	0.7246	0.011494078029967

Robust Multiple Regression Report

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Robust Residuals and Weights

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	10.690	11.433	-0.743	6.953	1.0000
2	12.708	11.501	1.207	9.498	0.7148
3	12.884	12.024	0.860	6.675	1.0000
4	12.133	11.856	0.277	2.284	1.0000
5	12.764	12.361	0.403	3.158	1.0000
6	10.731	10.807	-0.077	0.713	1.0000
7	10.953	11.215	-0.262	2.394	1.0000
8	10.672	11.173	-0.501	4.697	1.0000
9	11.856	10.738	1.118	9.430	0.7717
10	10.827	10.957	-0.131	1.207	1.0000
11	11.411	11.631	-0.220	1.924	1.0000
12	11.244	11.266	-0.022	0.192	1.0000
13	12.364	11.360	1.005	8.126	0.8587
14	11.651	11.538	0.114	0.976	1.0000
15	11.763	11.603	0.160	1.359	1.0000
16	10.314	10.684	-0.369	3.581	1.0000
17	10.933	11.294	-0.361	3.303	1.0000
18	11.855	11.201	0.654	5.519	1.0000
19	11.529	11.468	0.061	0.526	1.0000
20	10.951	10.691	0.260	2.374	1.0000
21	11.666	11.541	0.125	1.071	1.0000
22	10.160	12.655	-2.494	24.550	0.3459
23	11.547	11.602	-0.055	0.480	1.0000
24	10.843	10.922	-0.080	0.734	1.0000
25	11.632	11.314	0.318	2.737	1.0000
26	10.146	11.275	-1.129	11.126	0.7643
27	11.328	11.377	-0.049	0.434	1.0000
28	11.504	11.220	0.284	2.465	1.0000
29	11.569	11.207	0.362	3.131	1.0000
30	12.453	11.202	1.251	10.045	0.6898
31	11.533	11.261	0.272	2.354	1.0000
32	10.745	10.908	-0.164	1.523	1.0000
33	11.081	11.190	-0.109	0.983	1.0000
34	12.146	11.192	0.954	7.852	0.9047
35	12.352	11.189	1.163	9.413	0.7421
36	11.949	11.275	0.674	5.641	1.0000
37	10.150	11.313	-1.163	11.456	0.7420
38	11.512	11.433	0.079	0.687	1.0000
39	11.431	11.447	-0.016	0.142	1.0000
40	11.477	11.551	-0.074	0.642	1.0000
41	10.492	10.603	-0.111	1.061	1.0000
42	12.172	11.499	0.674	5.534	1.0000
43	12.510	11.577	0.933	7.460	0.9245

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
44	12.829	11.472	1.357	10.575	0.6360
45	12.172	11.705	0.467	3.838	1.0000
46	10.976	11.246	-0.270	2.458	1.0000
47	11.246	11.477	-0.231	2.053	1.0000
48	12.003	12.094	-0.091	0.759	1.0000
49	11.731	11.324	0.407	3.467	1.0000
50	10.655	11.500	-0.845	7.929	1.0000
51	11.077	11.073	0.004	0.037	1.0000
52	10.327	11.308	-0.981	9.501	0.8794
53	9.805	12.179	-2.375	24.219	0.3633
54	10.000	10.660	-0.661	6.608	1.0000
55	11.277	11.552	-0.276	2.445	1.0000
56	11.587	11.355	0.232	2.003	1.0000
57	10.813	11.458	-0.646	5.972	1.0000
58	9.983	10.689	-0.706	7.071	1.0000
59	10.327	11.565	-1.238	11.988	0.6969
60	11.175	11.592	-0.417	3.729	1.0000
61	11.038	11.417	-0.379	3.436	1.0000
62	10.841	11.047	-0.206	1.898	1.0000
63	11.396	11.618	-0.223	1.954	1.0000
64	10.329	10.818	-0.489	4.734	1.0000
65	11.892	11.647	0.245	2.063	1.0000
66	10.677	11.759	-1.082	10.137	0.7972
67	11.771	11.699	0.072	0.608	1.0000
68	11.624	11.773	-0.149	1.280	1.0000
69	11.373	11.687	-0.314	2.760	1.0000
70	10.845	10.851	-0.006	0.054	1.0000
71	11.247	11.567	-0.321	2.852	1.0000
72	10.721	11.029	-0.309	2.878	1.0000
73	9.641	12.026	-2.385	24.735	0.3618
74	10.979	11.950	-0.970	8.836	0.8893
75	11.120	11.973	-0.853	7.668	1.0000
76	11.849	11.735	0.114	0.962	1.0000
77	12.148	11.390	0.757	6.233	1.0000
78	12.558	11.873	0.685	5.454	1.0000
79	11.156	11.519	-0.363	3.254	1.0000
80	11.737	11.509	0.228	1.945	1.0000
81	11.549	11.144	0.405	3.506	1.0000
82	12.280	11.594	0.686	5.589	1.0000
83	11.406	11.468	-0.062	0.542	1.0000
84	12.659	11.962	0.697	5.506	1.0000
85	10.498	10.930	-0.432	4.115	1.0000
86	10.551	11.630	-1.079	10.223	0.7999

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
87	10.560	10.650	-0.090	0.849	1.0000
88	11.793	11.490	0.303	2.568	1.0000
89	10.977	11.370	-0.393	3.584	1.0000
90	9.789	10.629	-0.839	8.572	1.0000
91	11.323	10.995	0.328	2.894	1.0000
92	10.527	11.006	-0.479	4.549	1.0000
93	9.788	10.862	-1.074	10.972	0.8033
94	11.456	11.135	0.322	2.808	1.0000
95	10.979	10.796	0.183	1.666	1.0000
96	10.951	11.214	-0.264	2.408	1.0000
97	11.179	11.214	-0.035	0.314	1.0000
98	11.982	11.202	0.781	6.515	1.0000
106	10.159	10.680	-0.521	5.133	1.0000
107	11.937	11.336	0.602	5.041	1.0000
110	10.738	10.746	-0.007	0.068	1.0000
111	11.953	11.351	0.602	5.034	1.0000
113	13.040	11.943	1.098	8.416	0.7861
116	11.913	11.673	0.240	2.015	1.0000
117	12.291	11.829	0.461	3.754	1.0000
119	12.324	11.818	0.506	4.108	1.0000
122	11.072	11.549	-0.477	4.306	1.0000
123	11.104	11.549	-0.445	4.007	1.0000
124	11.842	11.621	0.220	1.862	1.0000
125	10.255	11.510	-1.255	12.238	0.6875
126	11.841	12.019	-0.178	1.507	1.0000
127	12.815	12.377	0.438	3.419	1.0000
130	12.726	11.738	0.988	7.764	0.8733
131	12.560	12.019	0.541	4.307	1.0000
133	11.260	11.170	0.090	0.798	1.0000
134	11.401	11.424	-0.023	0.205	1.0000
135	11.774	11.791	-0.017	0.143	1.0000
136	12.325	11.220	1.105	8.963	0.7811
137	10.623	12.080	-1.458	13.721	0.5920
138	11.306	11.639	-0.334	2.954	1.0000
139	11.026	11.963	-0.936	8.493	0.9214
140	11.315	11.952	-0.636	5.625	1.0000
143	11.549	11.246	0.303	2.622	1.0000
144	12.287	11.250	1.037	8.441	0.8319
145	11.690	11.390	0.300	2.567	1.0000
147	11.253	11.686	-0.433	3.848	1.0000
148	10.297	11.713	-1.416	13.751	0.6093
149	11.060	11.321	-0.260	2.352	1.0000
151	11.533	11.442	0.091	0.788	1.0000

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
152	11.296	11.018	0.278	2.459	1.0000
153	9.459	10.711	-1.251	13.228	0.6895
154	12.034	11.375	0.659	5.472	1.0000
155	11.249	11.343	-0.094	0.838	1.0000
157	12.434	11.702	0.731	5.882	1.0000
160	11.256	11.273	-0.017	0.154	1.0000
161	11.751	11.031	0.721	6.133	1.0000
163	12.402	11.672	0.730	5.887	1.0000
164	11.644	11.022	0.622	5.341	1.0000
166	12.305	11.902	0.403	3.276	1.0000
167	11.767	11.591	0.176	1.500	1.0000
168	10.331	11.665	-1.334	12.913	0.6468
171	12.047	11.472	0.575	4.774	1.0000
172	11.183	11.183	0.000	0.001	1.0000
173	10.841	10.565	0.276	2.547	1.0000
176	11.069	11.201	-0.133	1.197	1.0000
180	10.678	11.362	-0.684	6.407	1.0000
181	12.414	12.114	0.300	2.416	1.0000
184	11.984	11.006	0.979	8.167	0.8815
188	12.788	11.568	1.220	9.540	0.7072
189	11.037	11.299	-0.262	2.375	1.0000
190	11.538	11.796	-0.258	2.235	1.0000
191	11.811	11.572	0.240	2.031	1.0000
192	11.080	12.066	-0.986	8.897	0.8752
198	9.936	11.268	-1.332	13.408	0.6476
200	11.341	11.080	0.261	2.300	1.0000
202	10.731	11.432	-0.701	6.537	1.0000
203	11.245	11.449	-0.204	1.818	1.0000
204	11.264	11.426	-0.162	1.434	1.0000
207	11.062	11.773	-0.712	6.432	1.0000
211	11.464	11.645	-0.180	1.573	1.0000
212	12.018	11.329	0.689	5.732	1.0000
214	10.976	11.505	-0.529	4.816	1.0000
215	10.143	11.700	-1.557	15.356	0.5540
217	10.737	11.289	-0.552	5.139	1.0000
228	11.397	11.020	0.377	3.309	1.0000
230	11.209	10.662	0.547	4.882	1.0000
232	12.325	11.343	0.982	7.968	0.8785
233	10.257	11.330	-1.073	10.464	0.8039
234	11.375	11.032	0.343	3.017	1.0000
236	12.457	11.606	0.851	6.830	1.0000
237	11.407	11.689	-0.282	2.470	1.0000
239	11.252	11.724	-0.472	4.199	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
241	12.837	12.219	0.618	4.812	1.0000
242	11.179	12.166	-0.986	8.823	0.8748
244	11.850	11.798	0.052	0.439	1.0000
246	11.793	11.614	0.179	1.515	1.0000
247	12.483	11.690	0.794	6.358	1.0000
250	10.237	10.872	-0.635	6.203	1.0000
251	10.787	10.906	-0.119	1.099	1.0000
252	10.844	11.329	-0.485	4.476	1.0000
253	10.743	11.284	-0.541	5.035	1.0000
254	10.905	11.090	-0.185	1.696	1.0000
255	10.694	10.829	-0.136	1.268	1.0000
257	10.142	10.748	-0.606	5.975	1.0000
258	10.794	11.520	-0.726	6.726	1.0000
280	11.069	11.139	-0.070	0.633	1.0000
281	11.404	11.435	-0.031	0.275	1.0000
282	11.443	11.705	-0.262	2.286	1.0000
284	11.065	11.479	-0.414	3.743	1.0000
285	10.562	11.788	-1.226	11.604	0.7040
286	10.857	11.417	-0.560	5.157	1.0000
288	11.325	11.162	0.163	1.440	1.0000
290	11.581	11.325	0.256	2.211	1.0000
292	12.002	11.791	0.212	1.763	1.0000
294	11.631	11.363	0.268	2.306	1.0000
295	10.143	11.331	-1.188	11.712	0.7263
296	12.599	11.391	1.208	9.589	0.7142
298	11.944	11.266	0.678	5.677	1.0000
300	10.554	10.726	-0.172	1.634	1.0000
303	10.905	11.590	-0.685	6.280	1.0000
305	11.021	11.006	0.015	0.137	1.0000
306	10.858	11.931	-1.073	9.887	0.8038
309	11.935	11.237	0.698	5.847	1.0000
310	12.705	11.671	1.035	8.142	0.8340
311	11.307	11.944	-0.637	5.633	1.0000
315	12.702	11.286	1.417	11.152	0.6091
317	9.786	11.039	-1.253	12.803	0.6887
318	12.043	11.781	0.262	2.174	1.0000
319	11.619	10.724	0.894	7.698	0.9647
320	9.859	11.037	-1.178	11.952	0.7322
324	10.792	11.375	-0.583	5.402	1.0000
325	11.066	11.641	-0.575	5.195	1.0000
326	12.933	11.649	1.284	9.931	0.6718
327	12.093	11.710	0.383	3.169	1.0000
329	9.760	10.909	-1.150	11.779	0.7505

Robust Multiple Regression Report

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Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
332	11.316	11.303	0.013	0.114	1.0000
333	11.842	11.996	-0.153	1.295	1.0000
335	10.845	11.363	-0.518	4.781	1.0000
336	11.925	11.370	0.554	4.647	1.0000
337	10.041	11.056	-1.015	10.107	0.8501
338	10.986	11.778	-0.792	7.210	1.0000
341	10.848	11.882	-1.034	9.531	0.8345
342	11.580	11.965	-0.386	3.331	1.0000
347	10.738	11.603	-0.865	8.055	0.9976
348	11.582	11.349	0.233	2.008	1.0000
349	12.308	11.564	0.744	6.047	1.0000
352	12.690	12.293	0.397	3.127	1.0000
353	12.588	11.719	0.869	6.900	0.9934
354	13.367	12.496	0.871	6.513	0.9911
356	12.049	11.003	1.045	8.677	0.8253
357	10.160	12.079	-1.918	18.879	0.4498
358	12.561	12.035	0.526	4.190	1.0000
361	10.941	11.612	-0.670	6.125	1.0000
363	12.192	11.375	0.817	6.703	1.0000
364	11.402	11.042	0.360	3.160	1.0000
365	11.771	11.305	0.466	3.956	1.0000
366	11.404	10.887	0.517	4.532	1.0000
368	12.515	11.621	0.894	7.140	0.9656
369	12.271	11.914	0.357	2.909	1.0000
371	11.356	11.269	0.087	0.770	1.0000
372	11.754	10.645	1.109	9.435	0.7780
374	11.337	11.351	-0.014	0.126	1.0000
375	12.119	11.338	0.780	6.437	1.0000
378	11.636	11.114	0.522	4.485	1.0000
380	10.497	10.679	-0.182	1.733	1.0000
381	11.658	11.818	-0.161	1.378	1.0000
382	11.077	11.247	-0.170	1.537	1.0000
383	12.191	11.593	0.599	4.911	1.0000
387	12.047	11.968	0.079	0.659	1.0000
388	13.380	12.515	0.864	6.461	0.9981
390	12.755	11.996	0.759	5.948	1.0000
392	11.077	11.524	-0.447	4.034	1.0000
393	12.285	11.716	0.569	4.631	1.0000
394	11.646	11.904	-0.258	2.215	1.0000
398	10.142	11.247	-1.106	10.901	0.7804
400	12.007	11.754	0.253	2.111	1.0000
402	10.700	11.556	-0.856	7.999	1.0000
404	12.916	11.216	1.700	13.161	0.5076

Robust Multiple Regression Report

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Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
406	12.125	11.830	0.295	2.434	1.0000
408	12.664	11.695	0.968	7.646	0.8910
410	12.129	11.707	0.422	3.480	1.0000
411	10.129	11.476	-1.347	13.301	0.6404
414	11.852	11.993	-0.141	1.190	1.0000
419	12.857	12.150	0.707	5.499	1.0000
422	11.181	11.723	-0.542	4.847	1.0000
425	12.224	11.508	0.716	5.859	1.0000
429	11.902	11.682	0.219	1.844	1.0000
431	12.690	12.100	0.590	4.648	1.0000
436	12.720	11.906	0.814	6.402	1.0000
441	11.728	11.216	0.512	4.364	1.0000
447	12.418	12.076	0.343	2.759	1.0000
450	12.686	12.215	0.471	3.712	1.0000
451	12.216	11.580	0.636	5.206	1.0000
455	11.889	11.330	0.559	4.704	1.0000
456	11.105	11.693	-0.588	5.299	1.0000
457	12.224	12.214	0.009	0.076	1.0000
458	12.844	12.364	0.480	3.738	1.0000
459	12.680	11.852	0.828	6.530	1.0000
460	11.997	11.473	0.524	4.371	1.0000
464	12.586	11.726	0.860	6.830	1.0000
465	12.499	11.755	0.743	5.948	1.0000
466	10.793	11.484	-0.691	6.405	1.0000
467	11.803	11.815	-0.011	0.094	1.0000
468	11.671	11.566	0.105	0.897	1.0000
469	12.762	12.381	0.382	2.989	1.0000
472	12.205	12.424	-0.219	1.795	1.0000
474	11.808	11.946	-0.138	1.169	1.0000
475	11.906	12.274	-0.367	3.083	1.0000
476	11.771	12.391	-0.620	5.270	1.0000
477	12.160	11.889	0.271	2.225	1.0000
478	12.419	12.025	0.394	3.174	1.0000
479	12.478	12.006	0.472	3.780	1.0000
481	12.573	12.329	0.245	1.945	1.0000
482	13.635	13.037	0.599	4.390	1.0000
483	11.836	12.557	-0.721	6.094	1.0000
484	9.565	12.542	-2.978	31.133	0.2898
485	11.743	12.542	-0.799	6.806	1.0000
486	9.662	12.495	-2.833	29.323	0.3045
487	12.212	11.648	0.564	4.618	1.0000
490	10.921	11.475	-0.554	5.075	1.0000
491	12.554	12.346	0.208	1.654	1.0000

Robust Multiple Regression Report

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Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
492	10.822	11.770	-0.948	8.757	0.9104
493	12.539	11.774	0.765	6.100	1.0000
495	13.329	12.592	0.736	5.525	1.0000
496	10.125	11.437	-1.312	12.955	0.6578
497	11.395	11.904	-0.510	4.471	1.0000
498	11.660	11.801	-0.141	1.207	1.0000
500	12.293	11.822	0.472	3.839	1.0000
502	11.968	12.075	-0.108	0.900	1.0000
503	12.306	12.169	0.137	1.111	1.0000
511	12.194	12.275	-0.081	0.665	1.0000
514	11.882	11.998	-0.116	0.974	1.0000
526	11.046	11.387	-0.341	3.088	1.0000
527	11.391	11.472	-0.081	0.714	1.0000
530	12.614	11.965	0.649	5.144	1.0000
531	11.413	11.872	-0.459	4.025	1.0000
536	12.505	11.728	0.777	6.214	1.0000
539	11.326	11.378	-0.053	0.464	1.0000
542	11.582	11.777	-0.196	1.688	1.0000
544	12.579	11.638	0.941	7.478	0.9173
545	11.001	11.847	-0.846	7.691	1.0000
547	11.001	12.589	-1.588	14.432	0.5434
549	11.634	11.624	0.010	0.085	1.0000
551	11.965	11.852	0.114	0.949	1.0000
555	11.886	11.399	0.487	4.100	1.0000
557	11.984	11.657	0.326	2.724	1.0000
560	11.884	11.522	0.362	3.046	1.0000
562	11.867	12.298	-0.431	3.630	1.0000
565	11.459	12.009	-0.550	4.800	1.0000
566	12.012	11.995	0.018	0.149	1.0000
567	11.797	12.018	-0.220	1.869	1.0000
571	11.986	11.956	0.030	0.247	1.0000
572	11.276	12.206	-0.930	8.245	0.9280
573	11.276	12.926	-1.650	14.634	0.5229
574	13.247	12.823	0.424	3.200	1.0000
575	13.298	12.823	0.475	3.570	1.0000
576	12.035	11.950	0.085	0.704	1.0000
577	12.522	12.405	0.118	0.939	1.0000
578	12.690	12.026	0.664	5.232	1.0000
580	12.631	12.524	0.108	0.852	1.0000
581	12.706	12.314	0.392	3.087	1.0000
587	11.962	12.570	-0.608	5.081	1.0000
588	11.358	12.072	-0.714	6.286	1.0000
591	12.939	11.801	1.138	8.796	0.7581

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Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
595	11.775	11.727	0.048	0.411	1.0000
598	11.430	11.680	-0.250	2.186	1.0000
599	11.733	12.055	-0.322	2.744	1.0000
601	13.041	12.860	0.181	1.389	1.0000
602	12.405	12.555	-0.150	1.209	1.0000
605	12.420	12.192	0.227	1.831	1.0000
606	12.877	12.233	0.644	5.004	1.0000
609	12.076	11.761	0.315	2.606	1.0000
610	10.858	11.729	-0.871	8.019	0.9909
611	12.917	11.974	0.944	7.305	0.9143
612	10.705	11.940	-1.235	11.540	0.6985
613	11.940	11.857	0.083	0.694	1.0000
614	12.169	11.902	0.267	2.196	1.0000
619	10.932	11.646	-0.714	6.529	1.0000
620	13.010	12.552	0.458	3.521	1.0000
622	12.795	11.851	0.944	7.376	0.9143
626	11.836	11.691	0.144	1.219	1.0000
630	11.996	12.067	-0.071	0.594	1.0000
632	11.254	11.648	-0.394	3.502	1.0000
633	12.257	11.740	0.518	4.224	1.0000
634	10.705	11.722	-1.018	9.506	0.8479
635	12.572	11.994	0.577	4.592	1.0000
639	12.001	11.827	0.174	1.452	1.0000
642	9.655	11.647	-1.992	20.635	0.4331
645	11.019	11.438	-0.419	3.802	1.0000
650	10.722	11.859	-1.137	10.606	0.7587
655	11.193	11.752	-0.560	4.999	1.0000
657	12.546	11.650	0.896	7.141	0.9630
658	12.636	12.171	0.465	3.681	1.0000
662	10.926	12.152	-1.226	11.224	0.7036
663	11.840	11.661	0.179	1.510	1.0000
664	12.496	12.015	0.480	3.845	1.0000
665	11.454	11.726	-0.272	2.374	1.0000
669	11.719	11.685	0.034	0.290	1.0000
670	12.064	11.703	0.360	2.986	1.0000
671	11.172	11.696	-0.524	4.688	1.0000
676	12.589	12.681	-0.093	0.736	1.0000
678	12.541	11.877	0.664	5.293	1.0000
684	9.338	11.188	-1.850	19.815	0.4663
688	12.099	11.966	0.133	1.102	1.0000
689	11.999	12.136	-0.137	1.144	1.0000
690	12.011	12.018	-0.007	0.059	1.0000
692	12.165	11.793	0.372	3.059	1.0000

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Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
693	10.835	12.079	-1.244	11.479	0.6937
704	11.265	11.965	-0.700	6.218	1.0000
706	11.600	11.468	0.131	1.131	1.0000
707	10.364	11.929	-1.565	15.101	0.5513
712	11.981	12.241	-0.259	2.166	1.0000
713	11.956	12.067	-0.110	0.921	1.0000
715	11.735	11.754	-0.019	0.164	1.0000
719	12.406	12.337	0.069	0.552	1.0000
722	13.116	12.079	1.037	7.906	0.8321
724	12.535	12.125	0.410	3.274	1.0000
729	12.315	11.924	0.391	3.176	1.0000
733	12.831	11.982	0.849	6.620	1.0000
735	11.109	11.962	-0.853	7.679	1.0000
736	12.585	11.806	0.779	6.192	1.0000
738	12.257	12.426	-0.168	1.373	1.0000
739	11.962	12.480	-0.517	4.325	1.0000
740	11.462	12.014	-0.552	4.819	1.0000
743	13.137	12.839	0.298	2.267	1.0000
744	13.143	12.792	0.351	2.669	1.0000
747	11.371	11.988	-0.616	5.421	1.0000
749	11.803	12.247	-0.444	3.764	1.0000
751	12.730	11.760	0.970	7.619	0.8895
752	11.944	12.106	-0.162	1.359	1.0000
754	10.943	11.821	-0.878	8.025	0.9825
755	11.285	11.688	-0.404	3.576	1.0000
757	10.974	11.827	-0.853	7.772	1.0000
758	11.361	12.308	-0.948	8.344	0.9102
760	12.633	11.822	0.811	6.416	1.0000
761	12.043	11.123	0.920	7.638	0.9380
763	8.977	12.367	-3.390	37.765	0.2545
765	11.710	12.223	-0.514	4.388	1.0000
767	11.784	12.065	-0.281	2.385	1.0000
770	12.508	12.031	0.477	3.810	1.0000
773	12.451	12.594	-0.143	1.146	1.0000
782	12.534	12.309	0.225	1.794	1.0000
785	11.923	11.628	0.294	2.469	1.0000
786	11.129	11.548	-0.419	3.764	1.0000
787	12.078	11.727	0.351	2.906	1.0000
788	11.717	11.612	0.105	0.898	1.0000
795	13.017	12.474	0.543	4.173	1.0000
797	10.493	11.312	-0.819	7.805	1.0000
798	11.883	11.866	0.017	0.142	1.0000
799	11.546	12.076	-0.530	4.587	1.0000

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
803	11.939	11.521	0.417	3.494	1.0000
805	12.482	11.803	0.679	5.443	1.0000
806	11.413	11.942	-0.528	4.629	1.0000
807	12.389	11.471	0.918	7.410	0.9398
809	9.696	11.319	-1.622	16.731	0.5318
811	12.098	11.696	0.401	3.319	1.0000
813	11.542	11.529	0.013	0.116	1.0000
817	11.115	11.821	-0.706	6.350	1.0000
818	10.423	11.668	-1.245	11.942	0.6932
819	11.614	11.961	-0.347	2.987	1.0000
820	12.303	11.955	0.348	2.827	1.0000
821	12.546	12.346	0.200	1.595	1.0000
824	11.785	12.097	-0.312	2.649	1.0000
826	11.380	11.779	-0.399	3.503	1.0000
833	11.331	11.897	-0.567	5.001	1.0000
835	12.310	12.193	0.117	0.948	1.0000
841	11.909	12.073	-0.164	1.379	1.0000
845	12.297	11.709	0.588	4.783	1.0000
852	11.222	11.517	-0.294	2.624	1.0000
853	11.623	11.530	0.093	0.800	1.0000
855	12.804	11.948	0.856	6.685	1.0000
857	12.051	11.962	0.088	0.734	1.0000
859	11.753	12.231	-0.477	4.061	1.0000
861	12.144	12.239	-0.095	0.779	1.0000
864	11.962	11.968	-0.006	0.053	1.0000
868	11.591	12.267	-0.676	5.834	1.0000
870	11.717	12.219	-0.502	4.283	1.0000
871	12.794	12.104	0.690	5.397	1.0000
875	12.036	12.084	-0.047	0.391	1.0000
877	10.415	11.630	-1.215	11.664	0.7102
878	12.897	12.153	0.743	5.764	1.0000
881	10.420	11.306	-0.886	8.507	0.9733
883	13.151	12.571	0.580	4.409	1.0000
884	12.193	12.555	-0.361	2.963	1.0000
885	12.238	12.357	-0.120	0.978	1.0000
887	13.045	11.590	1.455	11.152	0.5931
889	11.698	12.061	-0.363	3.106	1.0000
890	12.736	11.108	1.627	12.778	0.5302
895	9.917	11.621	-1.704	17.183	0.5064
898	11.621	11.822	-0.200	1.725	1.0000
902	10.813	11.618	-0.806	7.450	1.0000
903	12.804	12.356	0.448	3.499	1.0000
904	11.851	11.662	0.189	1.595	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
906	12.155	12.188	-0.033	0.269	1.0000
908	11.226	11.883	-0.657	5.854	1.0000
909	12.430	12.627	-0.197	1.585	1.0000
910	12.649	12.372	0.277	2.189	1.0000
912	13.049	12.382	0.666	5.107	1.0000
914	11.820	12.412	-0.592	5.008	1.0000
917	12.332	12.024	0.308	2.496	1.0000
918	11.873	11.637	0.236	1.989	1.0000
920	12.274	11.955	0.319	2.595	1.0000
921	12.684	12.019	0.665	5.242	1.0000
922	11.675	11.590	0.085	0.731	1.0000
923	12.329	11.941	0.388	3.145	1.0000
924	12.455	11.988	0.467	3.751	1.0000
926	12.116	11.981	0.135	1.112	1.0000
928	11.844	12.288	-0.444	3.752	1.0000
929	12.932	12.730	0.202	1.563	1.0000
930	13.310	12.140	1.170	8.793	0.7372
931	10.724	11.815	-1.091	10.178	0.7905
932	11.971	12.213	-0.242	2.019	1.0000
935	12.943	12.146	0.797	6.155	1.0000
936	13.327	12.831	0.496	3.720	1.0000
939	11.803	11.847	-0.044	0.374	1.0000
941	12.086	12.498	-0.412	3.408	1.0000
944	12.974	11.330	1.645	12.675	0.5246
951	11.755	11.798	-0.043	0.365	1.0000
952	11.911	11.893	0.018	0.153	1.0000
953	11.911	11.795	0.116	0.975	1.0000
954	12.782	11.784	0.997	7.801	0.8653
956	12.498	12.292	0.207	1.654	1.0000
957	12.217	11.799	0.418	3.425	1.0000
958	12.083	11.692	0.391	3.239	1.0000
959	10.810	11.373	-0.563	5.206	1.0000
960	12.594	12.233	0.361	2.866	1.0000
961	12.046	11.920	0.126	1.046	1.0000
965	10.902	11.437	-0.536	4.915	1.0000
966	12.164	12.122	0.043	0.350	1.0000
973	11.109	12.387	-1.279	11.511	0.6748
974	12.085	12.353	-0.269	2.222	1.0000
975	12.448	12.692	-0.244	1.963	1.0000
976	11.735	12.180	-0.444	3.788	1.0000
978	11.829	11.749	0.080	0.678	1.0000
981	13.633	12.767	0.866	6.350	0.9966
984	10.834	12.048	-1.213	11.196	0.7113

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
985	9.116	12.102	-2.986	32.758	0.2889
986	12.708	12.037	0.670	5.274	1.0000
992	12.166	12.136	0.029	0.242	1.0000
996	12.029	12.330	-0.301	2.502	1.0000
998	12.282	12.417	-0.135	1.098	1.0000
1002	11.992	11.917	0.075	0.628	1.0000
1003	12.384	11.873	0.511	4.125	1.0000
1006	10.783	11.512	-0.729	6.760	1.0000
1007	9.650	12.098	-2.448	25.366	0.3525
1011	11.583	12.070	-0.488	4.211	1.0000
1014	13.077	12.352	0.725	5.545	1.0000
1018	12.738	12.283	0.454	3.567	1.0000
1019	12.169	12.206	-0.036	0.298	1.0000
1020	12.125	12.531	-0.406	3.352	1.0000
1024	13.084	12.719	0.365	2.790	1.0000
1029	12.577	12.656	-0.079	0.628	1.0000
1030	12.173	11.743	0.430	3.532	1.0000
1033	11.375	12.215	-0.840	7.387	1.0000
1039	11.866	12.033	-0.166	1.403	1.0000
1041	12.643	12.362	0.281	2.220	1.0000
1042	12.915	12.290	0.625	4.836	1.0000
1045	11.371	12.244	-0.873	7.681	0.9878
1047	11.127	12.093	-0.966	8.683	0.8931
1048	12.057	12.167	-0.110	0.916	1.0000
1049	11.562	11.721	-0.159	1.379	1.0000
1050	11.975	11.906	0.069	0.579	1.0000
1052	12.715	11.972	0.743	5.841	1.0000
1055	12.004	11.906	0.098	0.814	1.0000
1059	13.289	12.860	0.428	3.224	1.0000
1063	12.017	12.458	-0.442	3.675	1.0000
1064	12.939	12.533	0.406	3.138	1.0000
1065	12.965	12.765	0.200	1.544	1.0000
1066	12.110	12.382	-0.272	2.243	1.0000
1067	11.732	12.125	-0.393	3.350	1.0000
1068	11.264	11.359	-0.094	0.836	1.0000
1070	11.997	11.699	0.298	2.483	1.0000
1071	12.549	12.052	0.496	3.956	1.0000
1073	12.981	12.664	0.317	2.446	1.0000
1074	12.765	12.335	0.430	3.371	1.0000
1078	12.841	12.128	0.714	5.557	1.0000
1079	12.764	12.526	0.238	1.863	1.0000
1087	11.951	11.646	0.305	2.552	1.0000
1089	12.104	12.048	0.055	0.455	1.0000

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1090	11.663	11.989	-0.326	2.797	1.0000
1091	12.655	12.440	0.215	1.699	1.0000
1092	12.832	12.646	0.185	1.443	1.0000
1094	12.819	12.428	0.391	3.053	1.0000
1096	12.146	12.029	0.117	0.966	1.0000
1101	13.088	12.680	0.409	3.122	1.0000
1103	12.536	12.261	0.275	2.195	1.0000
1106	10.973	11.455	-0.482	4.396	1.0000
1110	12.424	12.166	0.258	2.078	1.0000
1111	11.260	12.199	-0.939	8.341	0.9186
1112	12.167	11.994	0.173	1.424	1.0000
1114	12.660	12.491	0.169	1.335	1.0000
1115	12.126	12.542	-0.415	3.426	1.0000
1118	13.076	12.249	0.827	6.323	1.0000
1119	11.935	12.296	-0.361	3.025	1.0000
1121	12.748	12.122	0.626	4.913	1.0000
1123	13.534	13.058	0.476	3.515	1.0000
1124	12.603	11.743	0.860	6.823	1.0000
1126	11.558	12.079	-0.521	4.510	1.0000
1127	11.875	11.998	-0.122	1.030	1.0000
1128	12.258	12.603	-0.345	2.813	1.0000
1129	11.476	12.292	-0.816	7.111	1.0000
1130	12.735	12.023	0.712	5.588	1.0000
1131	12.366	12.448	-0.082	0.662	1.0000
1133	12.051	12.296	-0.246	2.038	1.0000
1135	12.462	12.672	-0.210	1.686	1.0000
1139	13.193	12.231	0.962	7.289	0.8972
1141	11.815	11.559	0.256	2.167	1.0000
1144	12.117	12.114	0.003	0.028	1.0000
1147	12.987	12.683	0.304	2.341	1.0000
1148	13.832	12.589	1.243	8.985	0.6943
1150	11.127	11.646	-0.519	4.660	1.0000
1151	11.800	11.916	-0.116	0.981	1.0000
1154	10.952	12.122	-1.170	10.682	0.7375
1157	12.016	12.549	-0.533	4.438	1.0000
1159	12.429	12.426	0.003	0.023	1.0000
1163	11.803	12.301	-0.498	4.220	1.0000
1165	11.163	12.112	-0.949	8.500	0.9093
1168	12.424	12.071	0.353	2.842	1.0000
1169	12.419	12.517	-0.098	0.788	1.0000
1172	13.582	12.766	0.817	6.012	1.0000
1174	11.589	12.374	-0.785	6.777	1.0000
1176	12.642	12.420	0.222	1.752	1.0000

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1179	11.564	12.374	-0.810	7.001	1.0000
1181	13.033	12.393	0.639	4.905	1.0000
1183	12.596	12.373	0.222	1.764	1.0000
1185	13.288	12.825	0.464	3.489	1.0000
1186	12.665	12.530	0.135	1.067	1.0000
1187	12.532	12.549	-0.017	0.134	1.0000
1190	11.580	11.465	0.115	0.993	1.0000
1191	11.099	11.911	-0.812	7.317	1.0000
1192	11.244	12.141	-0.897	7.982	0.9614
1193	11.817	12.719	-0.902	7.637	0.9561
1194	11.944	12.004	-0.060	0.500	1.0000
1195	12.723	12.057	0.666	5.232	1.0000
1202	12.709	12.773	-0.065	0.510	1.0000
1203	11.943	12.388	-0.445	3.724	1.0000
1204	9.881	11.017	-1.135	11.488	0.7600
1205	12.998	11.737	1.261	9.701	0.6842
1206	11.605	11.730	-0.125	1.079	1.0000
1207	10.750	11.712	-0.962	8.948	0.8970
1212	11.166	11.538	-0.372	3.335	1.0000
1215	11.563	12.220	-0.658	5.689	1.0000
1216	12.842	12.138	0.704	5.484	1.0000
1217	12.104	11.483	0.621	5.127	1.0000
1219	12.813	12.258	0.555	4.332	1.0000
1221	11.754	11.904	-0.150	1.274	1.0000
1225	12.003	12.119	-0.116	0.963	1.0000
1226	13.381	11.913	1.468	10.972	0.5877
1227	12.405	12.319	0.085	0.687	1.0000
1228	12.443	11.826	0.617	4.961	1.0000
1230	10.362	11.467	-1.105	10.662	0.7809
1234	12.572	12.198	0.374	2.974	1.0000
1235	12.617	12.542	0.075	0.598	1.0000
1236	12.931	12.306	0.625	4.832	1.0000
1237	11.994	11.860	0.134	1.119	1.0000
1240	12.725	12.939	-0.214	1.680	1.0000
1241	13.157	12.422	0.734	5.582	1.0000
1242	13.155	12.422	0.733	5.572	1.0000
1243	11.644	12.761	-1.117	9.592	0.7725
1244	11.979	12.740	-0.761	6.349	1.0000
1247	10.925	11.593	-0.668	6.115	1.0000
1248	11.713	11.924	-0.211	1.803	1.0000
1250	12.826	11.833	0.993	7.745	0.8686
1254	12.554	12.221	0.333	2.656	1.0000
1257	11.925	12.310	-0.386	3.235	1.0000

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1269	12.119	12.098	0.020	0.168	1.0000
1270	12.801	12.341	0.460	3.593	1.0000
1271	12.931	12.050	0.880	6.808	0.9801
1272	10.769	11.978	-1.209	11.227	0.7136
1276	10.604	11.192	-0.588	5.545	1.0000
1277	11.774	11.699	0.075	0.636	1.0000
1280	12.022	11.470	0.552	4.589	1.0000
1281	12.656	12.439	0.216	1.711	1.0000
1284	10.604	11.310	-0.706	6.658	1.0000
1285	11.071	11.488	-0.417	3.766	1.0000
1287	10.373	12.223	-1.850	17.839	0.4663
1290	12.884	12.478	0.405	3.145	1.0000
1292	13.109	12.436	0.673	5.130	1.0000
1302	12.528	12.485	0.042	0.338	1.0000
1303	12.364	12.388	-0.024	0.194	1.0000
1305	11.370	11.751	-0.381	3.349	1.0000
1306	12.043	11.988	0.054	0.449	1.0000
1308	11.872	12.113	-0.241	2.033	1.0000
1310	11.470	12.132	-0.663	5.778	1.0000
1311	12.189	11.978	0.211	1.730	1.0000
1313	12.201	11.813	0.389	3.186	1.0000
1315	12.158	12.730	-0.572	4.703	1.0000
1316	12.598	12.127	0.471	3.737	1.0000
1317	12.284	12.192	0.092	0.746	1.0000
1318	12.742	12.398	0.344	2.702	1.0000
1321	12.907	12.166	0.742	5.747	1.0000
1324	12.414	11.820	0.594	4.782	1.0000
1325	12.858	12.543	0.314	2.445	1.0000
1326	11.966	11.393	0.573	4.791	1.0000
1329	9.693	11.206	-1.513	15.611	0.5702
1332	10.455	12.365	-1.909	18.262	0.4519
1334	11.976	12.405	-0.429	3.581	1.0000
1336	12.343	12.348	-0.005	0.044	1.0000
1338	11.108	11.470	-0.362	3.257	1.0000
1340	10.676	12.107	-1.431	13.404	0.6029
1342	12.825	12.893	-0.068	0.532	1.0000
1346	11.809	11.930	-0.122	1.029	1.0000
1351	11.451	11.635	-0.184	1.609	1.0000
1352	12.573	12.058	0.515	4.093	1.0000
1355	11.455	11.932	-0.477	4.163	1.0000
1357	11.397	11.866	-0.469	4.112	1.0000
1359	12.636	12.304	0.332	2.624	1.0000
1360	11.950	12.115	-0.165	1.379	1.0000

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1361	11.285	12.096	-0.811	7.191	1.0000
1362	12.961	12.429	0.532	4.102	1.0000
1363	11.285	12.023	-0.738	6.543	1.0000
1365	12.410	12.356	0.054	0.435	1.0000
1367	12.638	11.922	0.716	5.668	1.0000
1374	12.307	11.822	0.484	3.936	1.0000
1377	13.037	12.967	0.070	0.539	1.0000
1380	12.369	11.815	0.554	4.478	1.0000
1382	13.176	12.337	0.839	6.371	1.0000
1383	12.527	12.416	0.111	0.883	1.0000
1385	12.398	12.677	-0.279	2.251	1.0000
1386	12.240	12.224	0.015	0.124	1.0000
1387	12.390	12.117	0.273	2.206	1.0000
1388	11.839	11.970	-0.130	1.100	1.0000
1389	10.923	11.764	-0.841	7.702	1.0000
1395	12.367	12.052	0.315	2.551	1.0000
1396	12.814	12.918	-0.104	0.808	1.0000
1400	12.267	12.719	-0.452	3.683	1.0000
1405	12.523	12.015	0.508	4.057	1.0000
1406	12.905	11.931	0.974	7.545	0.8862
1407	12.658	12.408	0.250	1.976	1.0000
1408	12.542	12.294	0.248	1.977	1.0000
1411	12.849	12.501	0.348	2.705	1.0000
1413	11.522	11.521	0.000	0.002	1.0000
1414	12.255	11.974	0.280	2.288	1.0000
1416	11.076	12.526	-1.450	13.094	0.5949
1418	12.080	11.717	0.363	3.002	1.0000
1419	12.303	13.021	-0.718	5.838	1.0000
1426	11.965	12.024	-0.060	0.498	1.0000
1427	9.942	11.268	-1.326	13.332	0.6509
1430	12.668	12.131	0.537	4.238	1.0000
1431	10.296	11.414	-1.118	10.863	0.7714
1433	11.970	12.889	-0.920	7.684	0.9381
1439	11.457	12.052	-0.595	5.191	1.0000
1440	11.772	12.148	-0.376	3.190	1.0000
1441	11.079	11.430	-0.351	3.165	1.0000
1442	12.330	12.321	0.009	0.069	1.0000
1444	12.466	12.246	0.220	1.767	1.0000
1446	13.123	12.821	0.302	2.300	1.0000
1448	12.665	12.475	0.190	1.497	1.0000
1451	12.150	12.068	0.083	0.679	1.0000
1452	11.892	11.927	-0.036	0.299	1.0000
1455	11.116	12.362	-1.246	11.210	0.6924

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1457	11.757	11.716	0.040	0.343	1.0000
1458	11.805	11.768	0.037	0.312	1.0000
1461	12.445	12.414	0.031	0.248	1.0000
1469	12.080	12.376	-0.297	2.456	1.0000
1470	12.579	12.432	0.147	1.168	1.0000
1472	13.722	12.623	1.099	8.010	0.7850
1473	11.704	12.100	-0.396	3.386	1.0000
1477	12.192	12.065	0.127	1.042	1.0000
1479	12.499	11.943	0.557	4.452	1.0000
1480	11.874	11.916	-0.042	0.350	1.0000
1483	11.745	11.982	-0.237	2.015	1.0000
1485	12.499	11.988	0.511	4.092	1.0000
1487	12.102	11.847	0.255	2.108	1.0000
1489	13.108	12.102	1.006	7.677	0.8574
1490	12.852	11.876	0.976	7.594	0.8840
1491	11.639	11.549	0.090	0.774	1.0000
1496	11.857	11.635	0.222	1.871	1.0000
1498	12.368	12.666	-0.298	2.409	1.0000
1500	11.074	11.757	-0.683	6.169	1.0000
1502	11.823	12.261	-0.438	3.706	1.0000
1503	12.203	12.637	-0.433	3.552	1.0000
1504	12.411	12.070	0.341	2.747	1.0000
1505	13.006	11.746	1.260	9.687	0.6848
1507	12.940	12.413	0.527	4.070	1.0000
1512	13.822	11.881	1.941	14.043	0.4445
1514	11.439	11.600	-0.160	1.402	1.0000
1516	11.732	11.930	-0.199	1.693	1.0000
1517	12.188	11.741	0.447	3.667	1.0000
1518	12.066	12.690	-0.624	5.169	1.0000
1519	12.117	11.957	0.160	1.324	1.0000
1520	10.864	12.398	-1.534	14.124	0.5623
1522	11.888	11.724	0.164	1.380	1.0000
1528	12.722	12.223	0.499	3.925	1.0000
1529	11.479	11.981	-0.502	4.375	1.0000
1530	12.451	11.609	0.842	6.761	1.0000
1534	11.796	12.019	-0.223	1.890	1.0000
1539	12.354	11.947	0.407	3.292	1.0000
1540	12.281	12.380	-0.099	0.808	1.0000
1541	12.216	13.035	-0.820	6.709	1.0000
1542	12.425	12.328	0.098	0.786	1.0000
1546	12.736	11.739	0.997	7.827	0.8655
1547	11.089	11.794	-0.704	6.349	1.0000
1548	13.353	12.588	0.765	5.731	1.0000

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1551	12.915	12.372	0.543	4.205	1.0000
1552	12.079	12.162	-0.084	0.693	1.0000
1555	10.996	11.858	-0.862	7.842	1.0000
1556	11.281	12.206	-0.925	8.198	0.9330
1560	12.462	12.257	0.205	1.644	1.0000
1563	11.493	11.808	-0.315	2.739	1.0000
1565	11.802	12.471	-0.669	5.669	1.0000
1571	12.520	12.311	0.209	1.671	1.0000
1574	10.887	11.871	-0.984	9.041	0.8766
1578	12.382	11.836	0.546	4.409	1.0000
1579	12.447	11.914	0.534	4.287	1.0000
1580	11.591	11.685	-0.094	0.809	1.0000
1582	10.575	11.844	-1.269	12.003	0.6797
1585	11.531	12.576	-1.045	9.064	0.8255
1587	11.688	11.318	0.370	3.163	1.0000
1588	12.882	12.166	0.715	5.553	1.0000
1591	11.005	11.352	-0.347	3.152	1.0000
1592	11.106	12.272	-1.167	10.505	0.7396
1593	11.434	12.011	-0.576	5.040	1.0000
1594	12.183	12.247	-0.063	0.520	1.0000
1595	11.046	11.845	-0.800	7.241	1.0000
1597	11.810	11.855	-0.046	0.386	1.0000
1601	12.533	11.856	0.678	5.408	1.0000
1608	12.538	11.852	0.686	5.475	1.0000
1610	12.406	12.179	0.227	1.832	1.0000
1611	13.033	11.992	1.040	7.982	0.8295
1613	11.579	11.816	-0.237	2.046	1.0000
1615	10.888	11.659	-0.771	7.082	1.0000
1618	13.030	12.161	0.869	6.666	0.9933
1620	11.853	12.250	-0.397	3.348	1.0000
1621	11.956	11.856	0.100	0.840	1.0000
1622	12.398	11.999	0.399	3.216	1.0000
1623	12.050	11.379	0.671	5.566	1.0000
1626	11.348	11.551	-0.202	1.784	1.0000
1628	11.929	12.261	-0.332	2.782	1.0000
1629	12.771	11.432	1.339	10.483	0.6445
1630	13.026	12.636	0.390	2.996	1.0000
1632	12.684	12.850	-0.166	1.307	1.0000
1633	11.206	12.115	-0.909	8.112	0.9491
1634	12.339	12.610	-0.271	2.196	1.0000
1636	11.763	11.803	-0.039	0.335	1.0000
1638	12.761	12.115	0.646	5.061	1.0000
1640	12.718	11.640	1.077	8.472	0.8008

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1641	11.983	12.323	-0.340	2.835	1.0000
1642	10.984	11.837	-0.852	7.759	1.0000
1645	11.756	11.640	0.116	0.983	1.0000
1648	12.116	12.117	0.000	0.002	1.0000
1653	11.089	12.038	-0.949	8.556	0.9094
1654	11.511	11.771	-0.260	2.257	1.0000
1655	13.139	12.528	0.612	4.654	1.0000
1656	12.261	12.524	-0.264	2.151	1.0000
1658	13.650	12.525	1.125	8.241	0.7670
1660	11.567	11.465	0.102	0.884	1.0000
1661	12.173	12.264	-0.090	0.742	1.0000
1662	12.423	12.178	0.245	1.970	1.0000
1663	11.137	11.834	-0.697	6.257	1.0000
1665	11.422	12.334	-0.912	7.984	0.9461
1666	12.471	11.904	0.567	4.549	1.0000
1667	12.860	12.003	0.857	6.661	1.0000
1668	12.939	12.317	0.622	4.804	1.0000
1674	12.850	12.383	0.467	3.635	1.0000
1675	12.933	12.508	0.426	3.291	1.0000
1679	12.307	11.861	0.446	3.626	1.0000
1683	12.260	11.990	0.270	2.200	1.0000
1685	10.730	11.908	-1.178	10.977	0.7326
1686	12.564	12.667	-0.104	0.824	1.0000
1687	12.577	12.611	-0.034	0.271	1.0000
1689	11.811	12.066	-0.255	2.160	1.0000
1692	12.990	12.266	0.725	5.579	1.0000
1693	10.806	11.198	-0.392	3.625	1.0000
1694	11.737	11.771	-0.034	0.293	1.0000
1696	11.126	11.616	-0.490	4.401	1.0000
1697	12.434	12.257	0.177	1.423	1.0000
1699	12.648	12.121	0.527	4.167	1.0000
1702	11.306	11.901	-0.594	5.256	1.0000
1703	11.615	11.199	0.417	3.587	1.0000
1704	9.925	11.743	-1.818	18.318	0.4746
1708	11.682	11.835	-0.153	1.311	1.0000
1709	12.861	11.664	1.197	9.310	0.7206
1713	11.109	11.736	-0.627	5.647	1.0000
1715	10.954	11.877	-0.924	8.434	0.9340
1717	12.630	12.369	0.261	2.067	1.0000
1719	11.767	12.074	-0.307	2.607	1.0000
1720	12.648	12.179	0.468	3.704	1.0000
1722	11.340	11.845	-0.505	4.455	1.0000
1725	10.741	11.759	-1.017	9.469	0.8483

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Ln_Sale_Price	Predicted Ln_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1727	11.823	12.310	-0.486	4.115	1.0000
1732	12.778	12.259	0.519	4.064	1.0000
1734	11.862	12.064	-0.202	1.704	1.0000
1735	11.953	11.877	0.076	0.633	1.0000
1738	12.149	11.582	0.568	4.673	1.0000
1740	11.795	12.043	-0.248	2.104	1.0000
1743	11.586	11.712	-0.125	1.083	1.0000
1745	11.113	11.507	-0.394	3.543	1.0000
1747	12.084	12.064	0.019	0.160	1.0000
1749	11.021	11.736	-0.715	6.490	1.0000
1750	12.761	12.369	0.392	3.071	1.0000
1751	11.583	12.465	-0.882	7.615	0.9782
1752	12.523	12.346	0.177	1.411	1.0000
1754	12.850	12.321	0.529	4.118	1.0000
1757	12.078	12.496	-0.417	3.455	1.0000
1758	12.005	12.277	-0.272	2.263	1.0000
1759	12.815	11.781	1.034	8.071	0.8342
1762	10.605	11.800	-1.195	11.266	0.7221
1764	11.869	11.301	0.568	4.789	1.0000
1773	12.641	12.320	0.321	2.537	1.0000
1777	12.737	12.304	0.433	3.397	1.0000
1780	11.326	11.541	-0.215	1.901	1.0000
1781	11.180	11.770	-0.590	5.275	1.0000
1785	12.219	12.048	0.171	1.398	1.0000
1786	12.688	12.096	0.591	4.661	1.0000
1787	12.005	11.830	0.175	1.458	1.0000
1790	11.105	12.039	-0.935	8.418	0.9230
1793	12.320	11.397	0.923	7.492	0.9348
1795	11.481	11.405	0.076	0.660	1.0000
1798	11.657	11.833	-0.176	1.507	1.0000
1800	11.254	11.811	-0.558	4.956	1.0000
1801	12.836	11.849	0.988	7.694	0.8737
1802	11.110	11.103	0.007	0.065	1.0000
1805	12.690	12.337	0.353	2.782	1.0000
1806	12.381	12.194	0.187	1.508	1.0000
1809	12.968	12.011	0.957	7.377	0.9020
1810	12.562	12.183	0.379	3.017	1.0000
1812	11.994	11.595	0.399	3.329	1.0000
1815	11.635	11.900	-0.266	2.284	1.0000
1816	11.863	11.893	-0.030	0.255	1.0000

Robust Multiple Regression Report

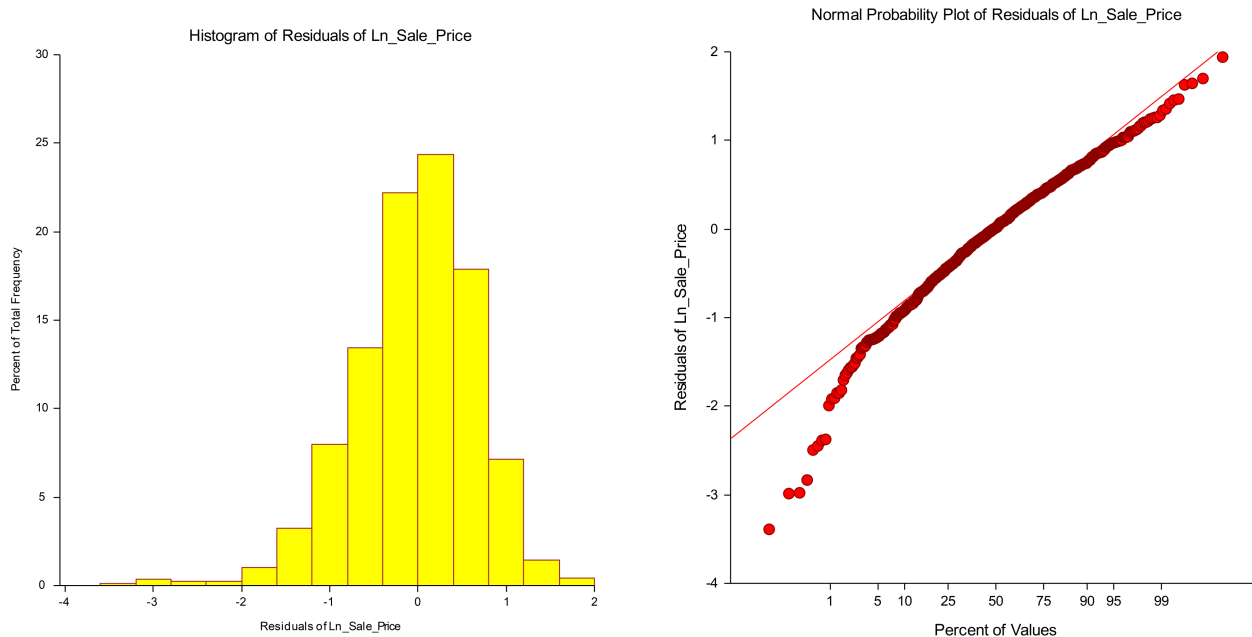
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Distributional Plots of Residuals



Robust Multiple Regression Report

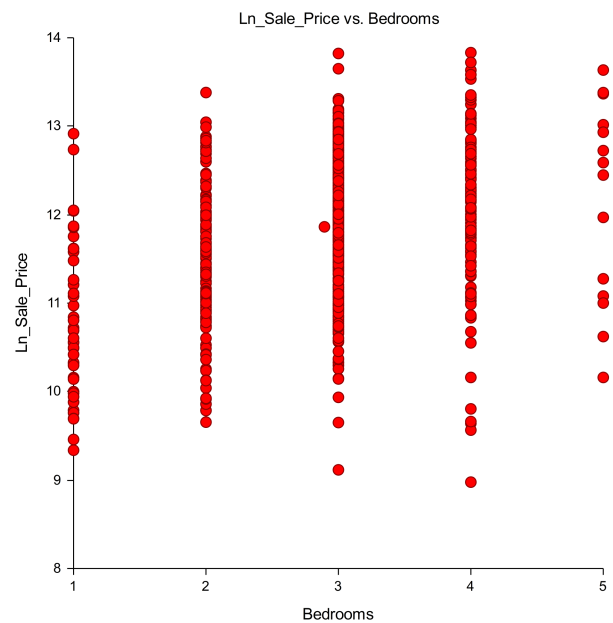
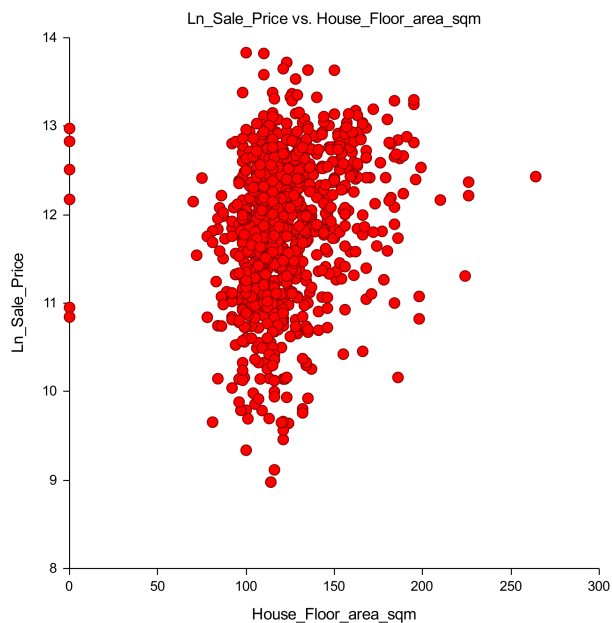
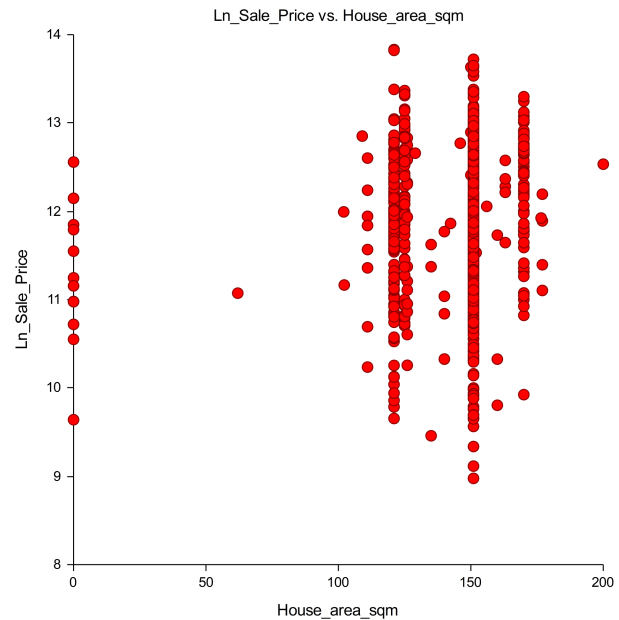
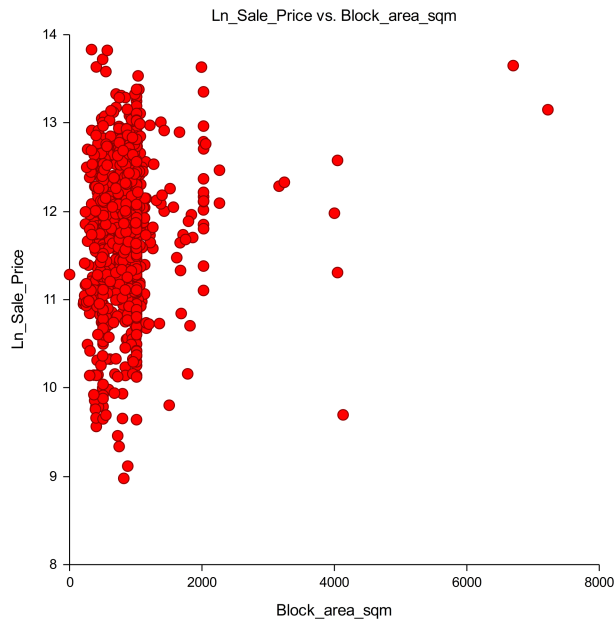
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Y vs X Plots



Robust Multiple Regression Report

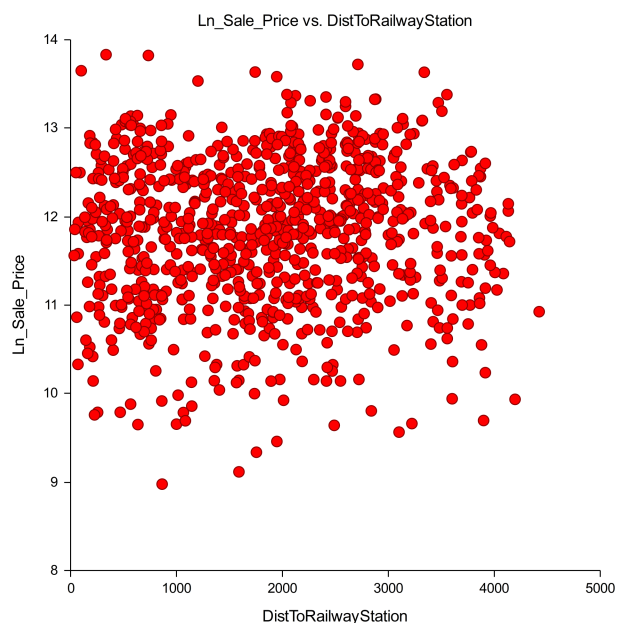
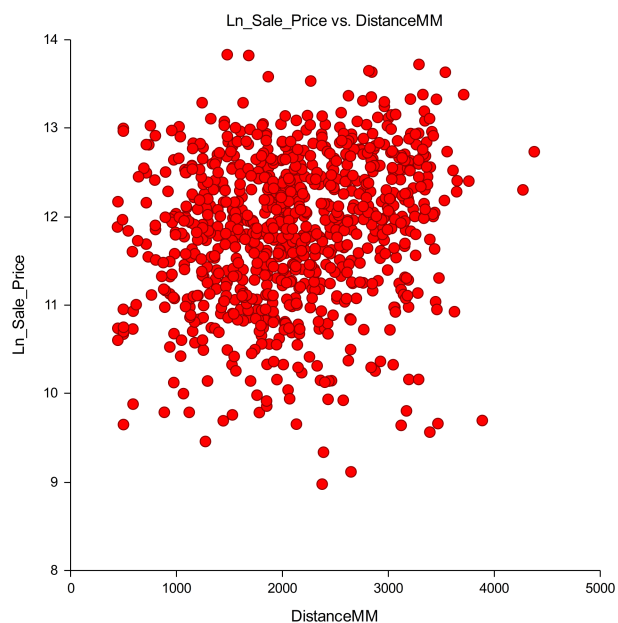
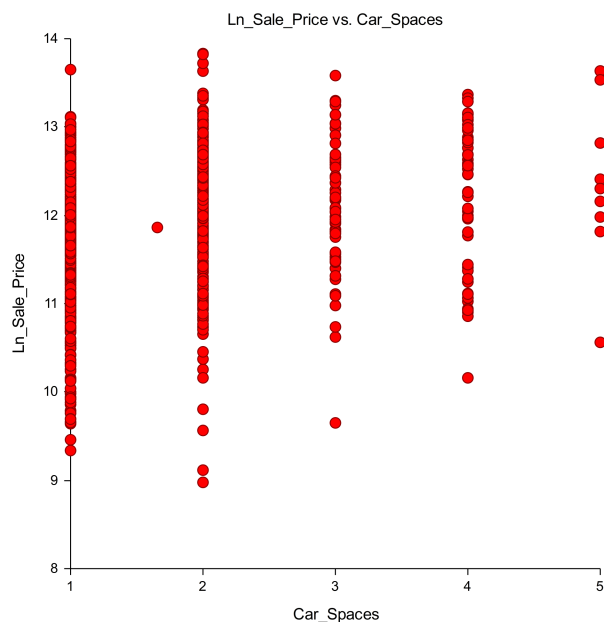
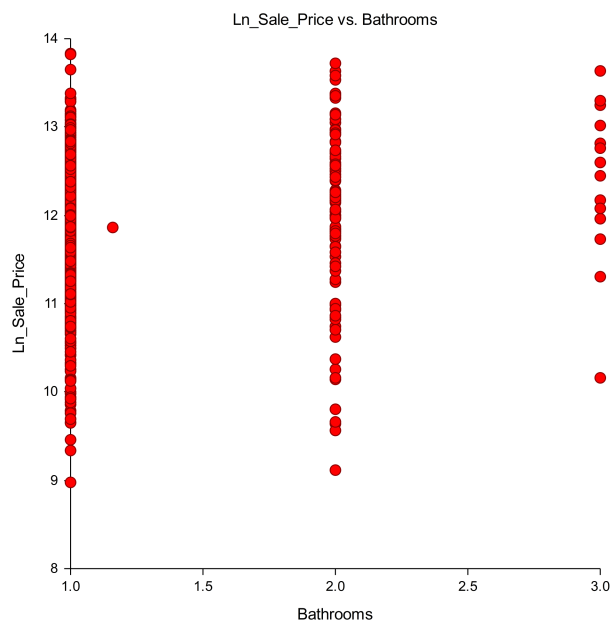
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

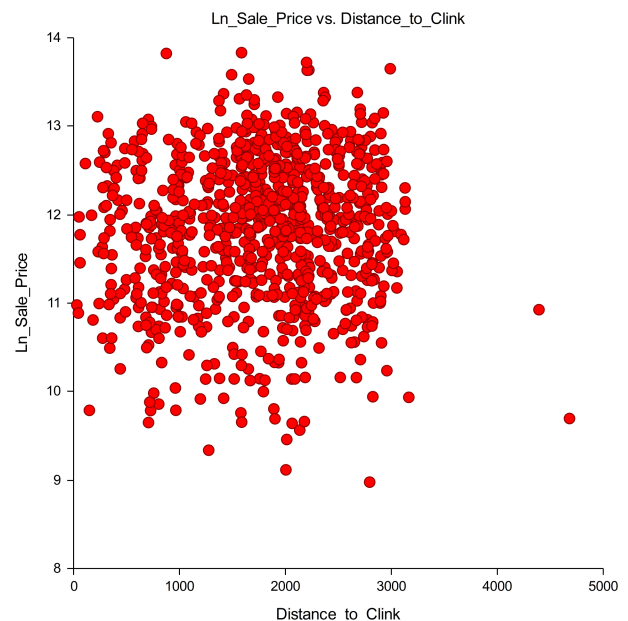
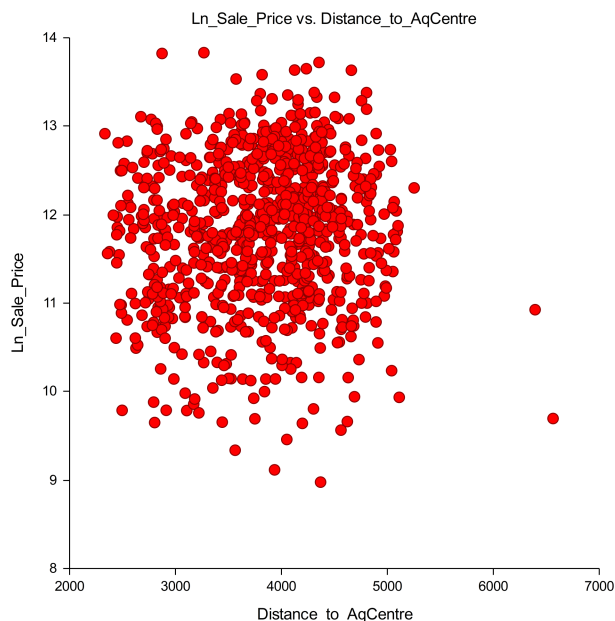
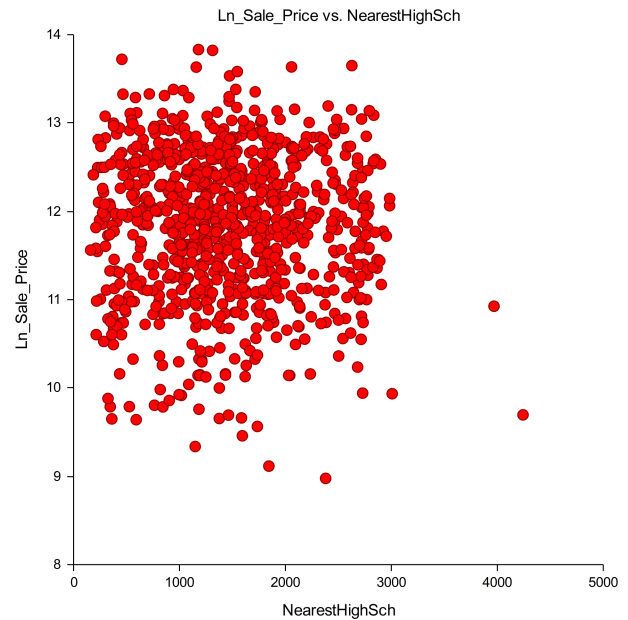
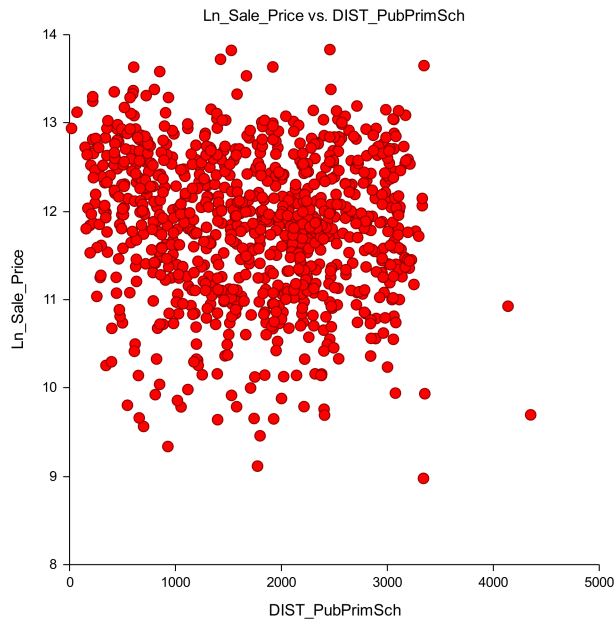
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

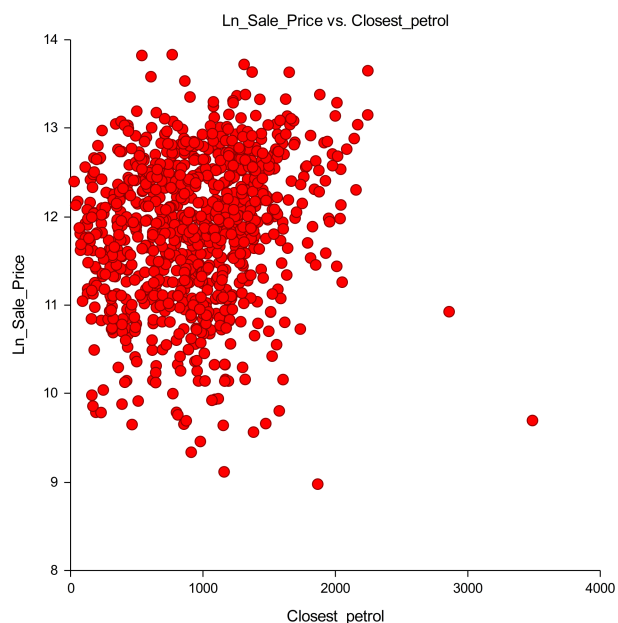
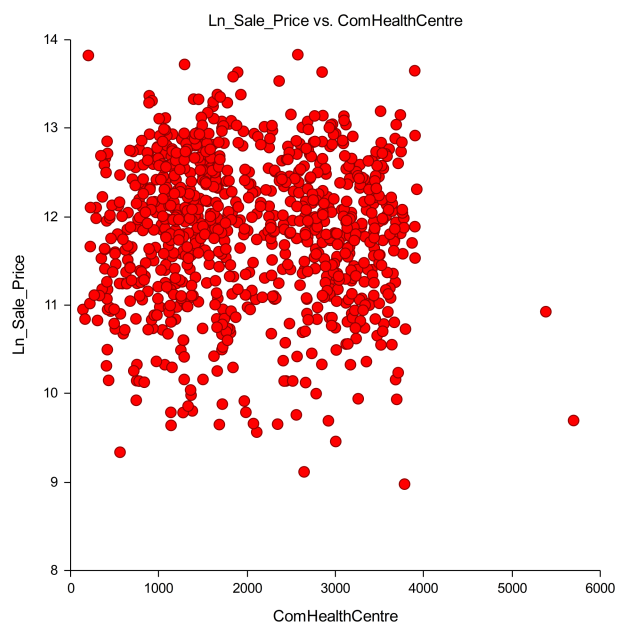
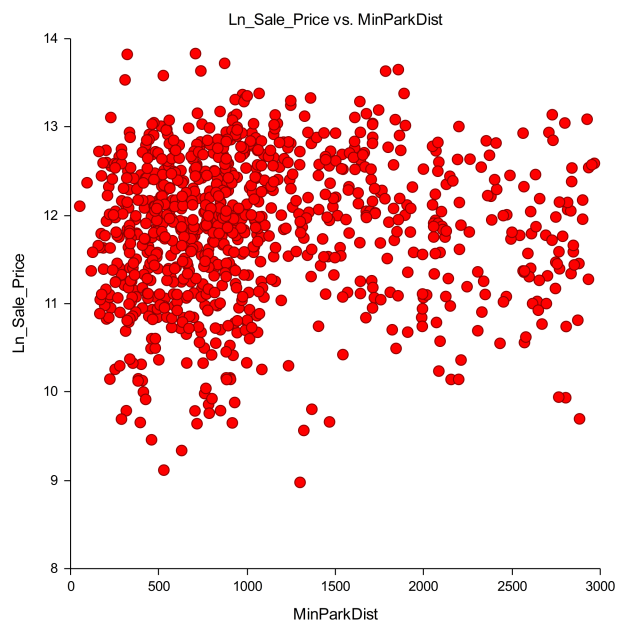
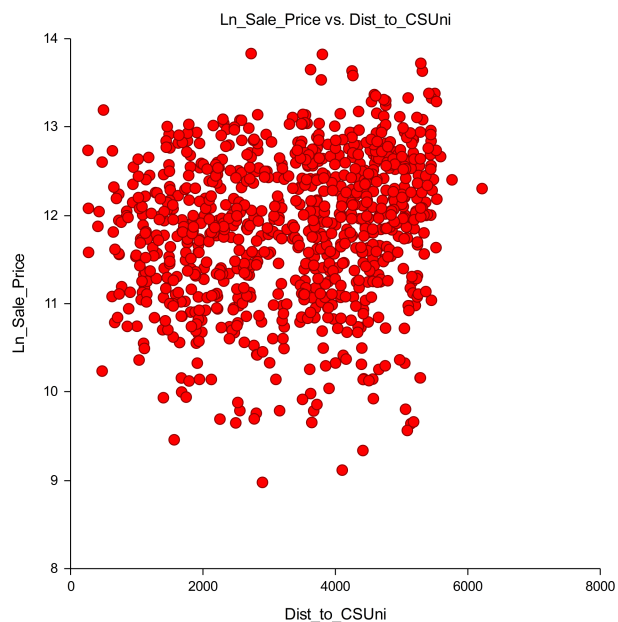
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

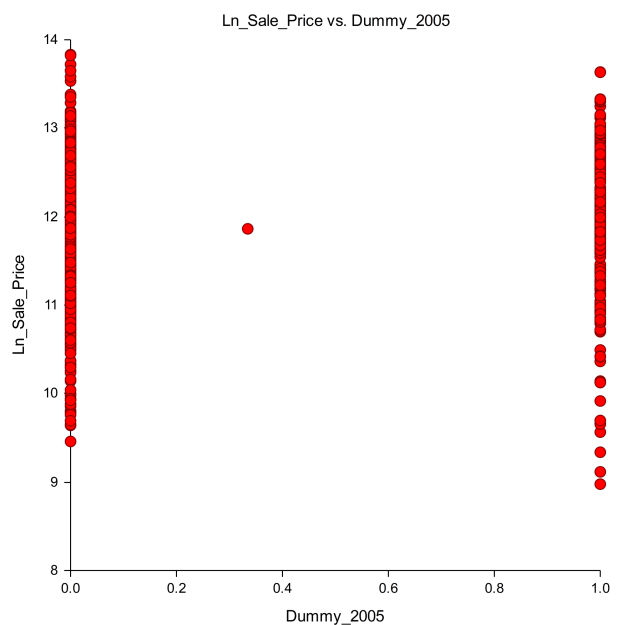
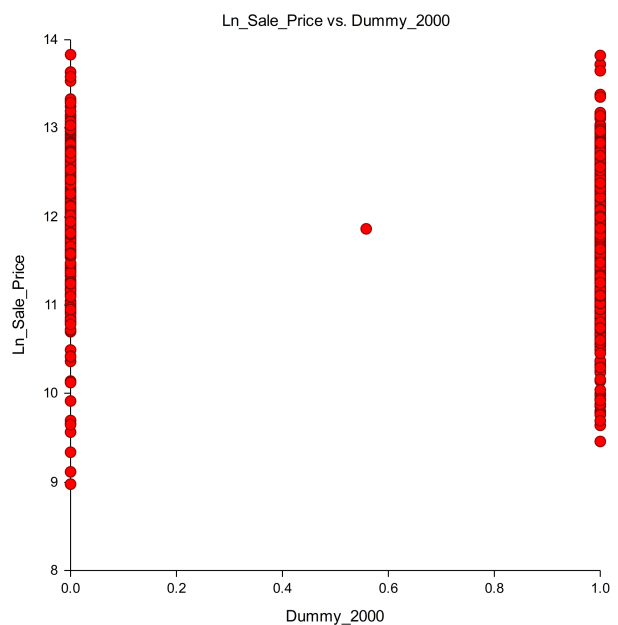
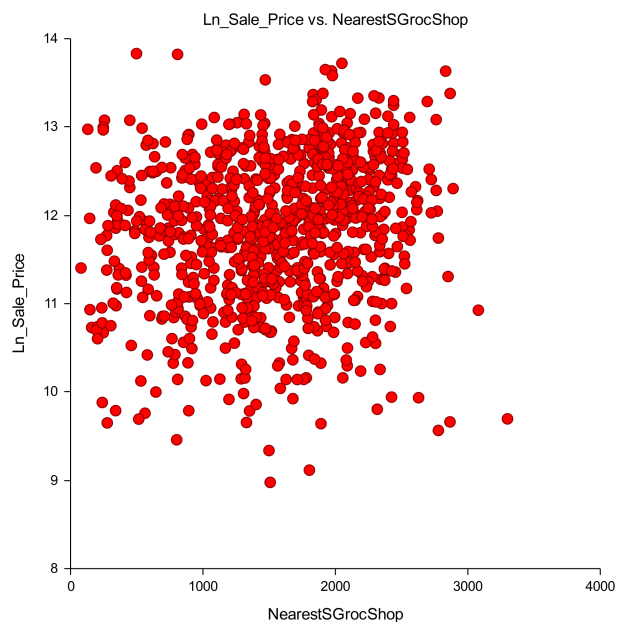
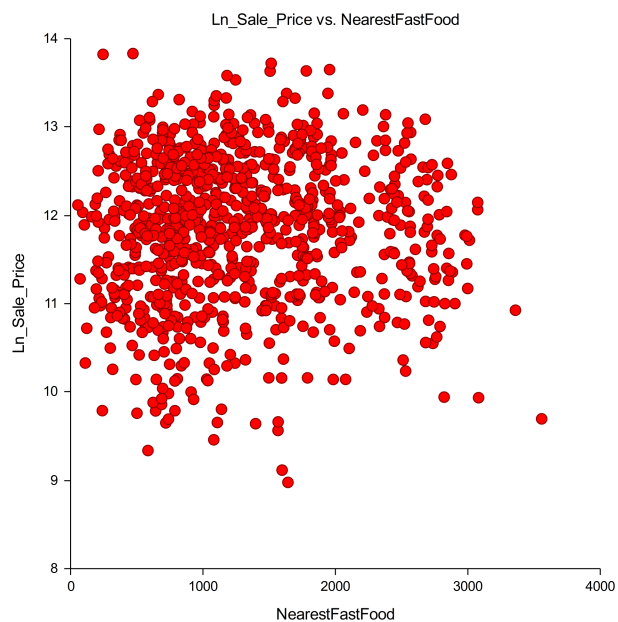
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

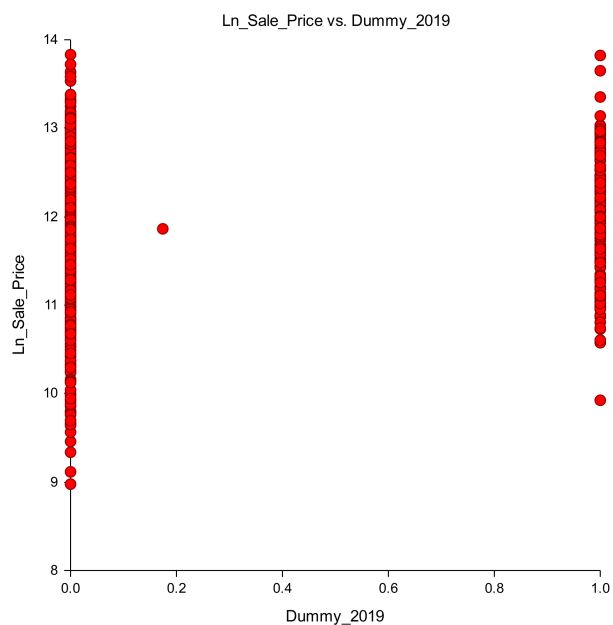
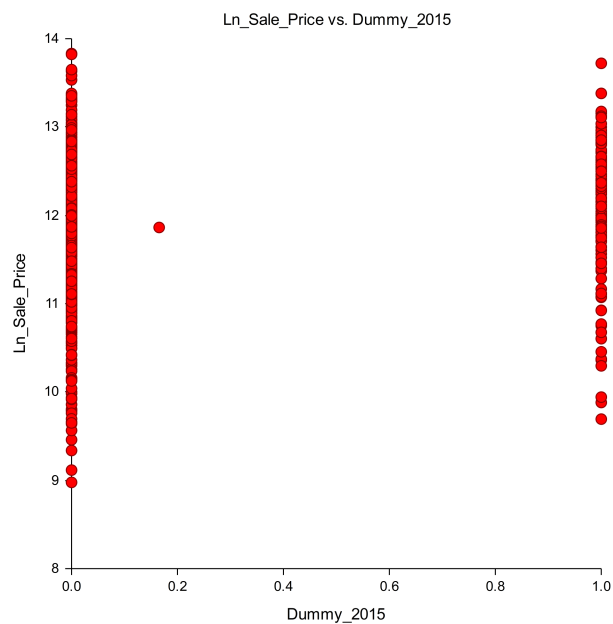
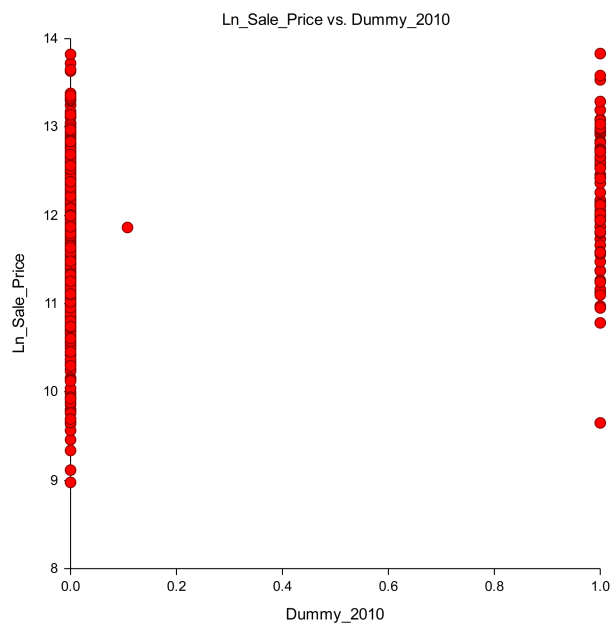
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Dependent Ln_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

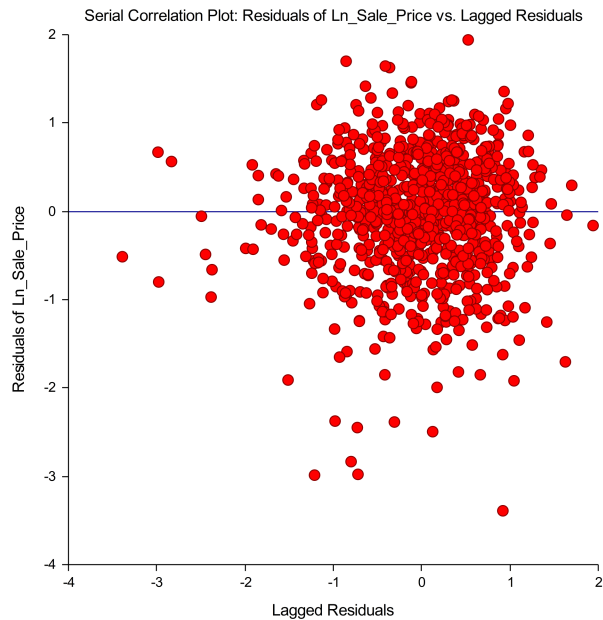
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Dependent Ln_Sale_Price

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Serial Correlation Plot: Residuals vs Lagged Residuals



Robust Multiple Regression Report

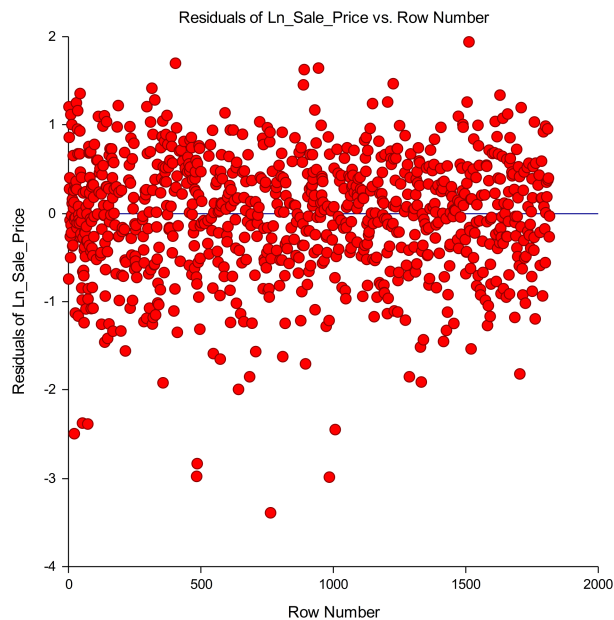
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

Warning: Variable(Dummy_2010) has been zeroed out. Remove it to prevent errors!

Sequence Plot: Residuals vs Row



Robust Multiple Regression Report

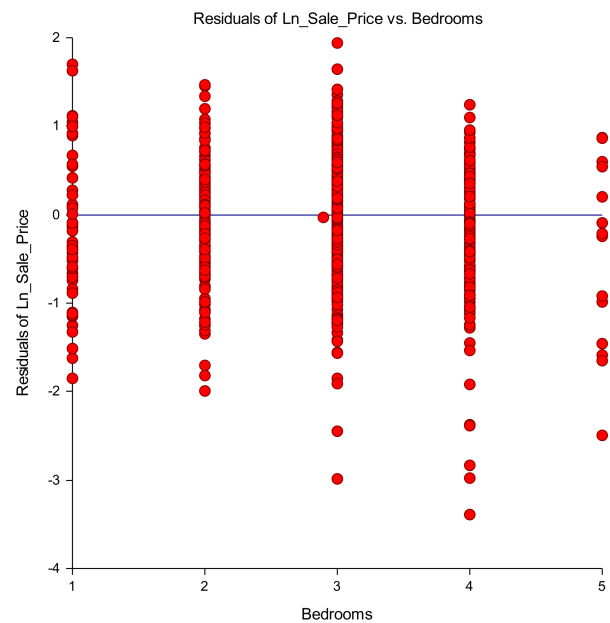
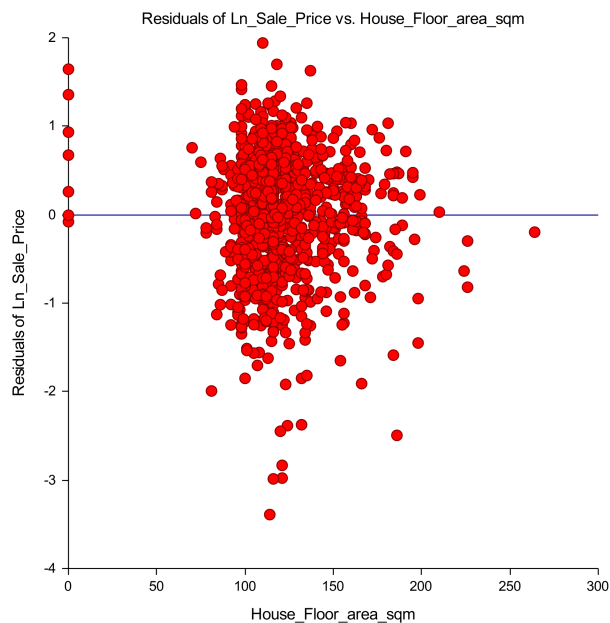
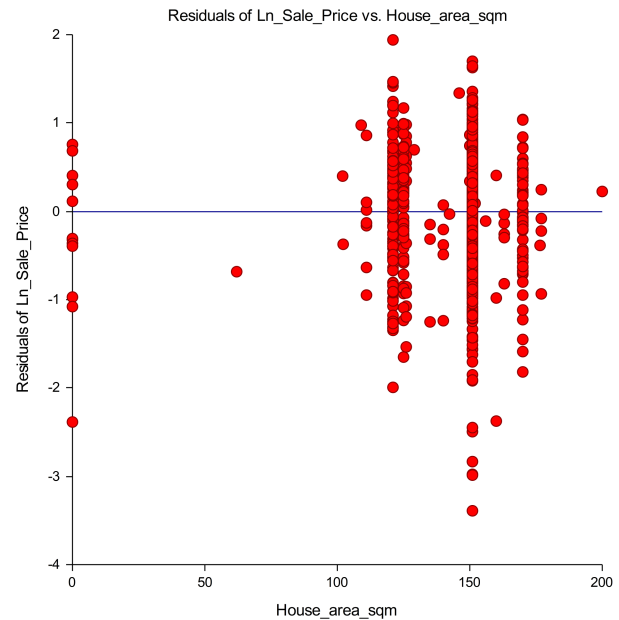
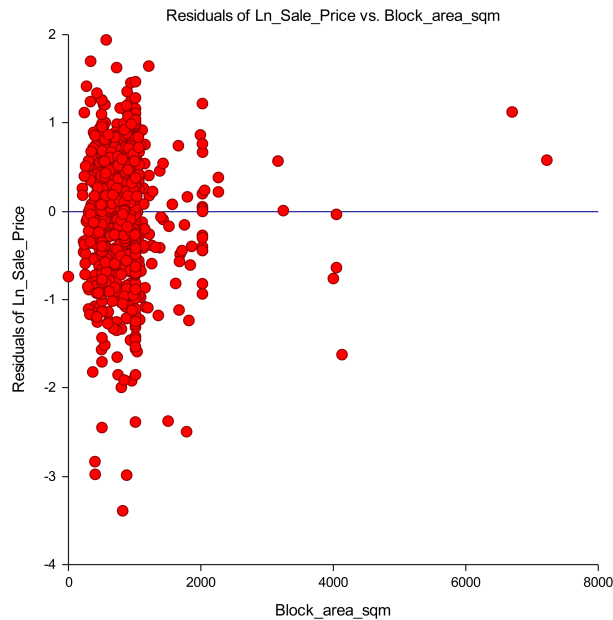
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

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Residuals vs X Plots



Robust Multiple Regression Report

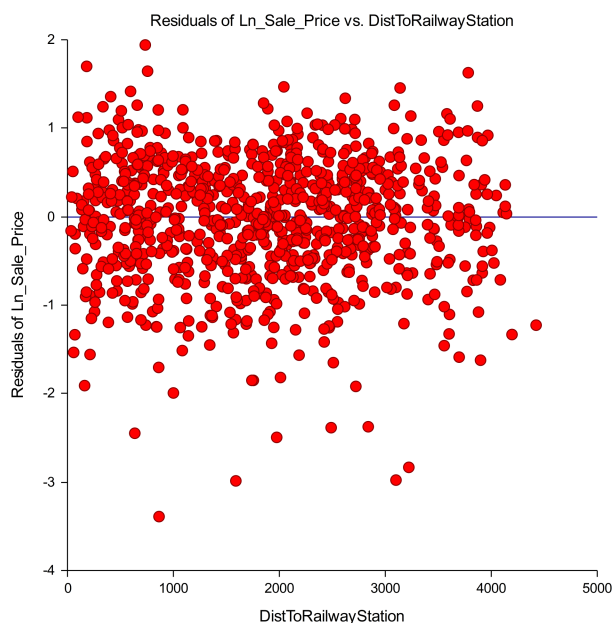
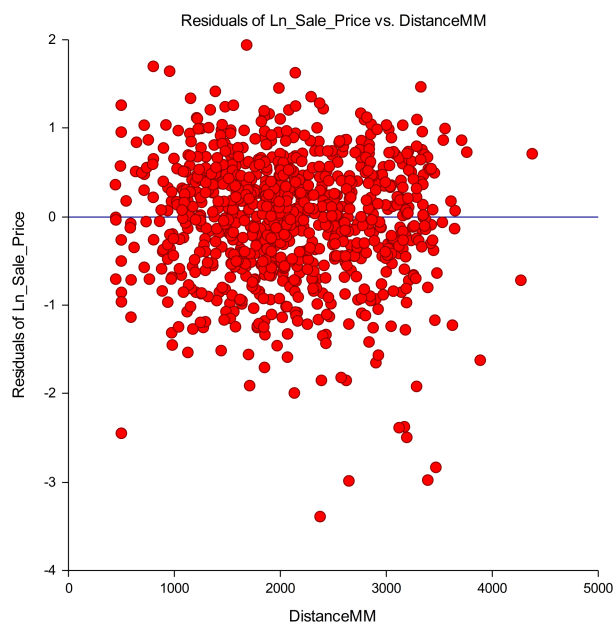
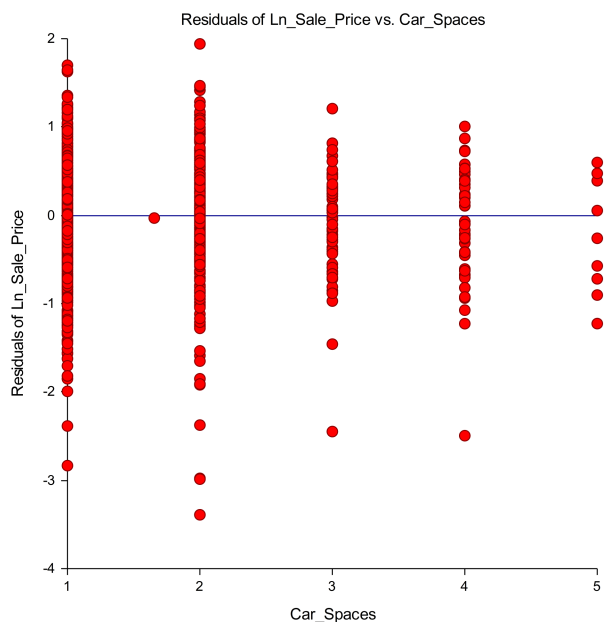
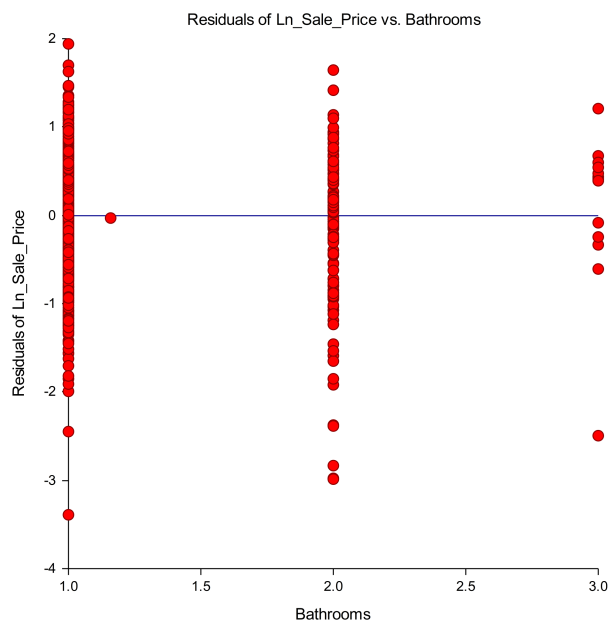
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

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Residuals vs X Plots (Continued)



Robust Multiple Regression Report

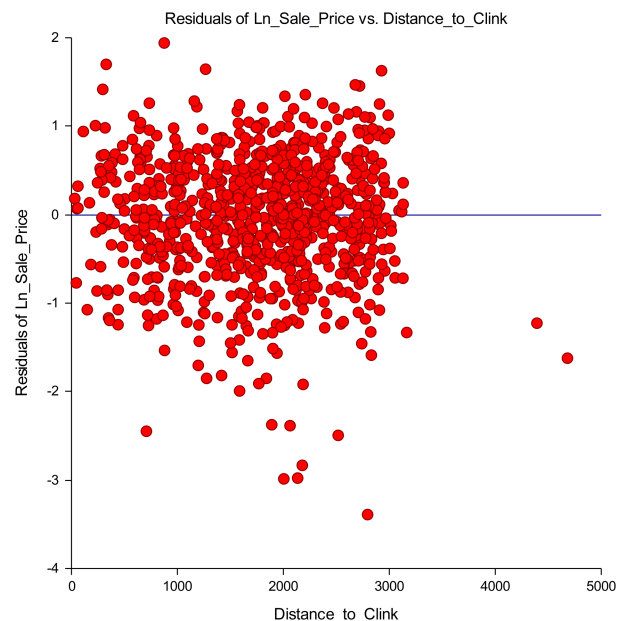
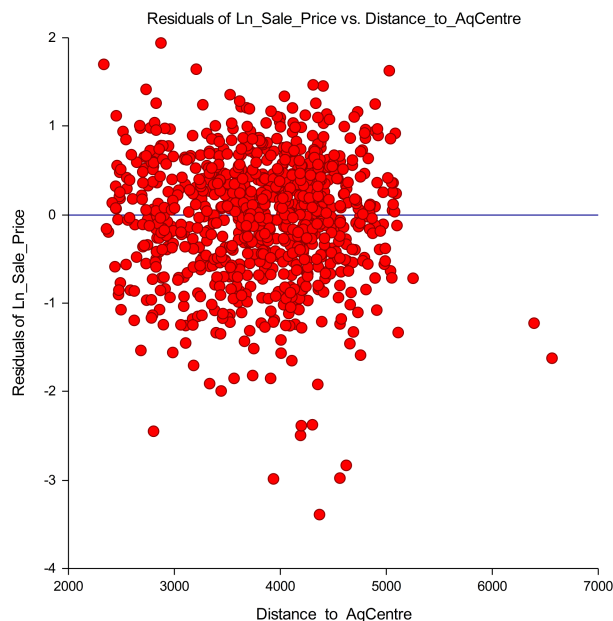
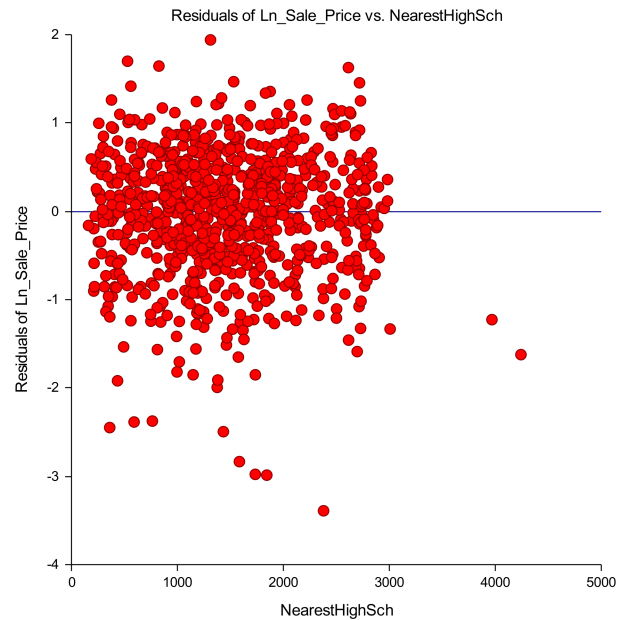
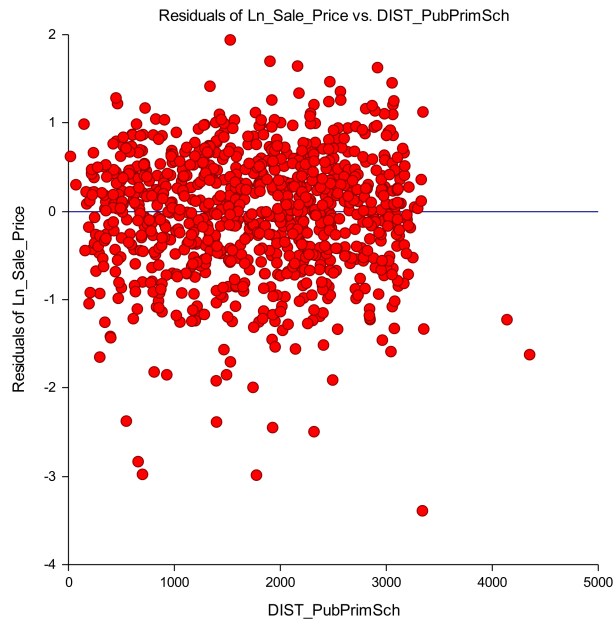
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Residuals vs X Plots (Continued)



Robust Multiple Regression Report

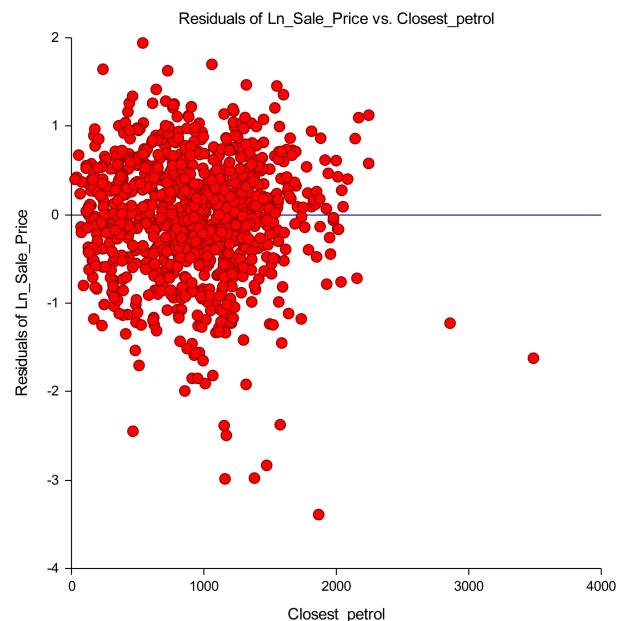
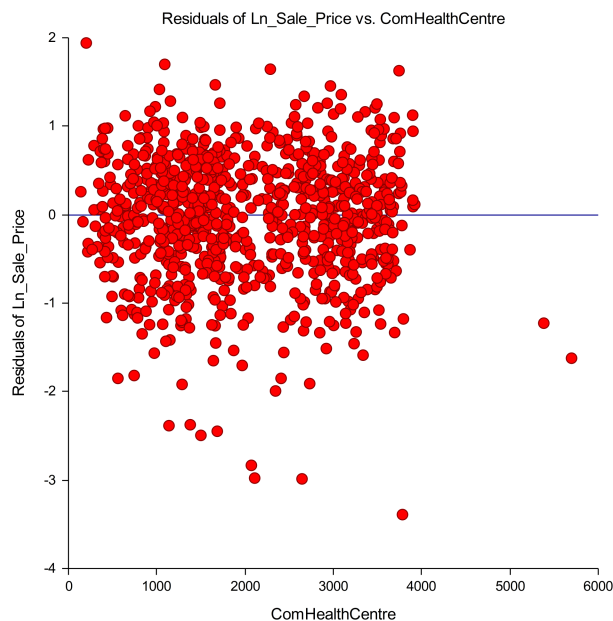
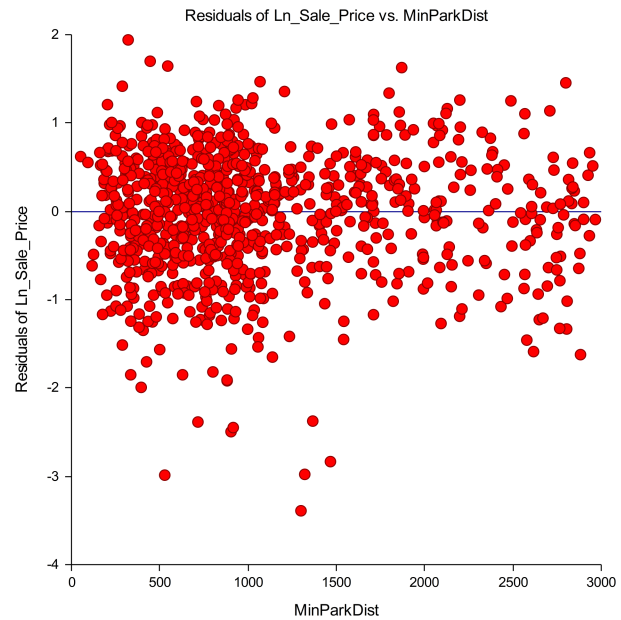
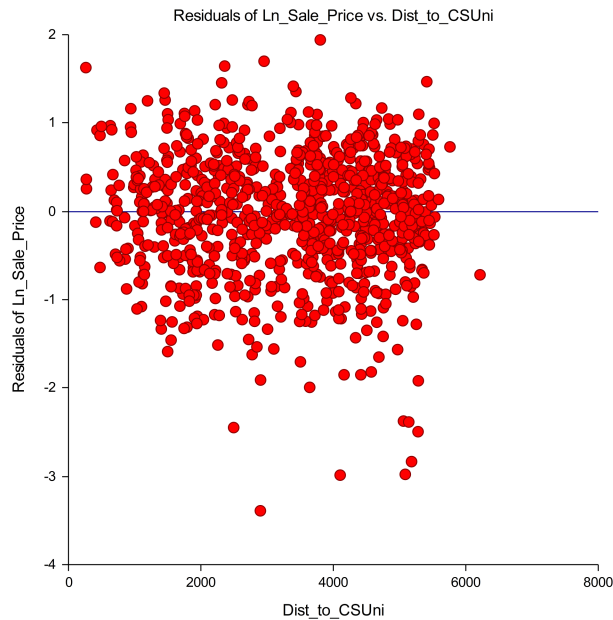
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

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Residuals vs X Plots (Continued)



Robust Multiple Regression Report

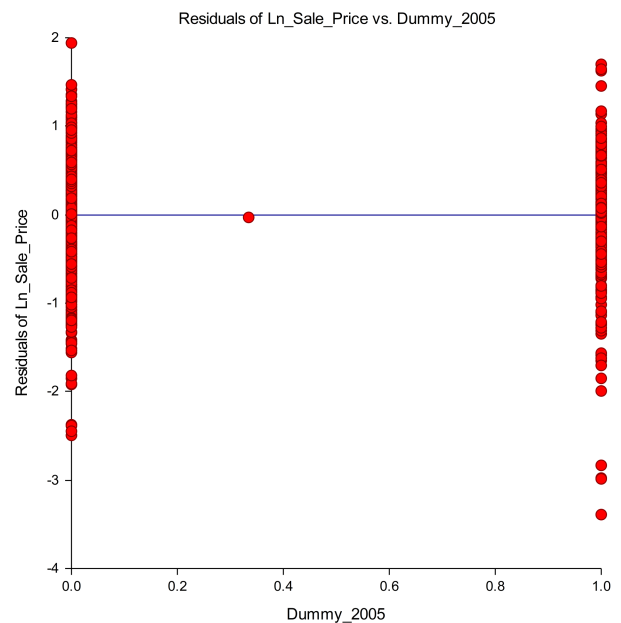
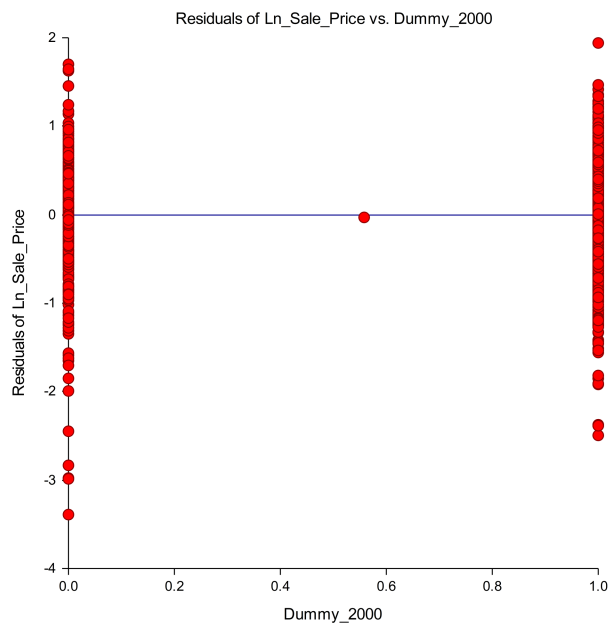
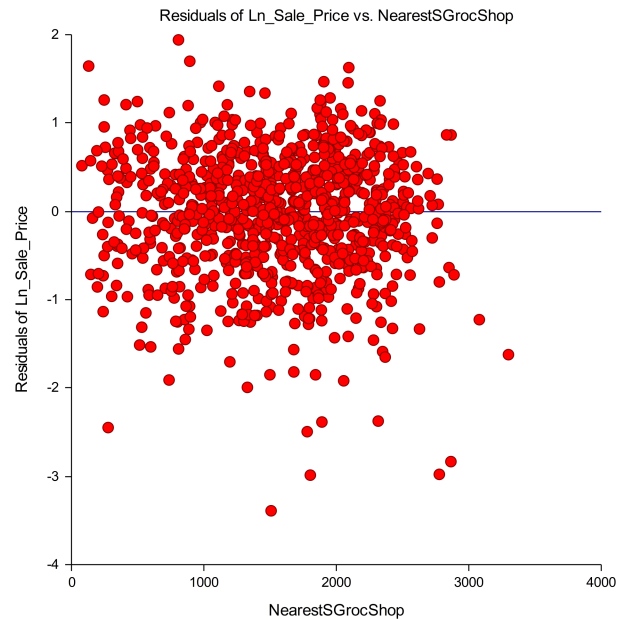
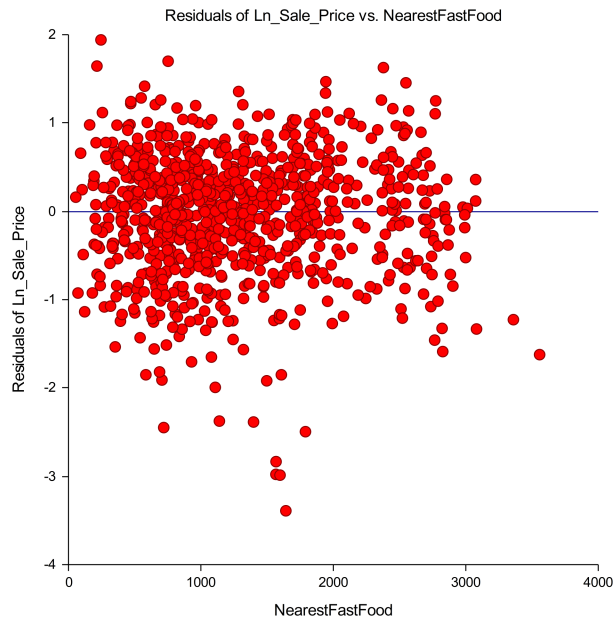
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Residuals vs X Plots (Continued)



Robust Multiple Regression Report

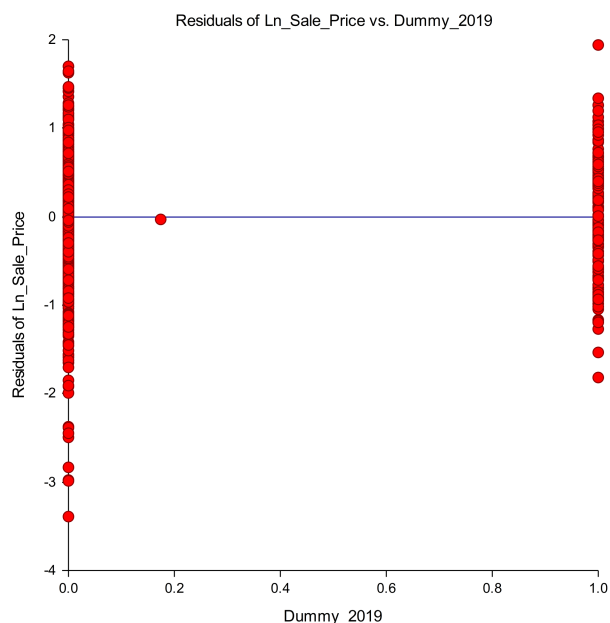
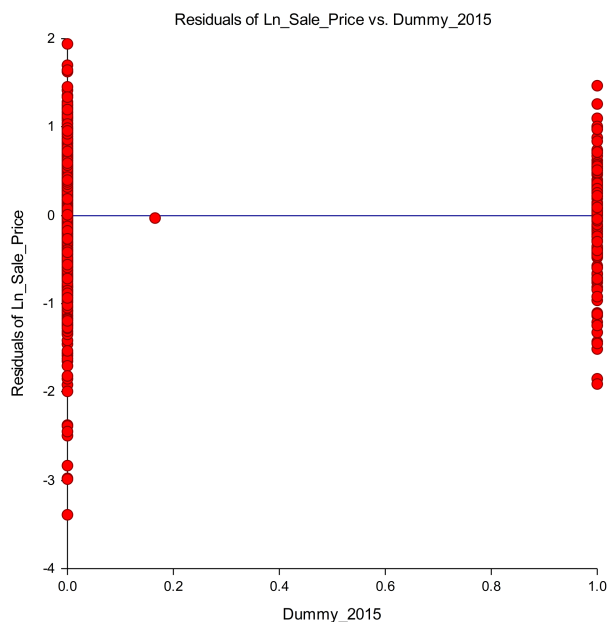
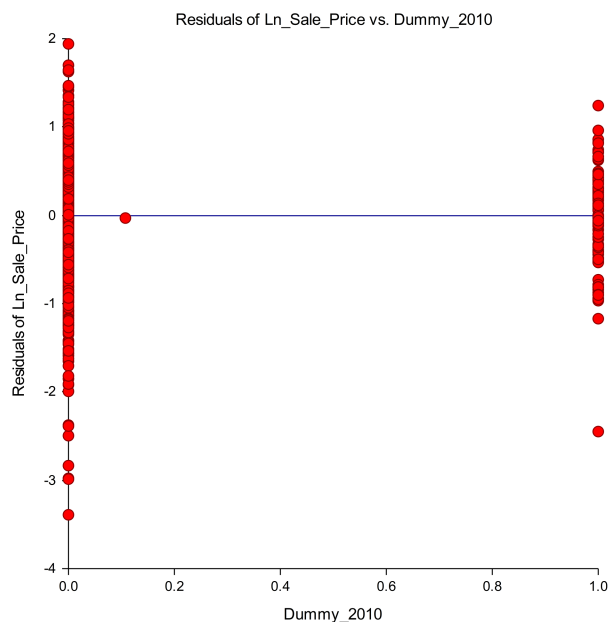
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Residuals vs X Plots (Continued)



Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Procedure Input Settings

Autosaved Template File

C:\Users\Dr_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved 2023_4_11-14_44_50.t158

Variables, Model Tab

-- Variables -----

Y:	Ln_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, NearestSGrocShop, Dummy_2000, Dummy_2005, Dummy_2010, Dummy_2015, Dummy_2019
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
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-- 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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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

-- 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	
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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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

.. 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\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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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

Robust Multiple Regression Report

Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Ln_Sale_Price

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Procedure Input Settings (Continued)

Storage Tab (Continued)

·· 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
