

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Run Summary Report

Item	Value	Rows	Value
Dependent Variable	Log_10_Sale_Price	Number Processed	1816
Number Ind. Variables	24	Number Used in Estimation	1040
Weight Variable	None	Number Filtered Out	0
Robust Method	Huber's Method	Number with X's Missing	776
Tuning Constant	1.345	Number with Weight Missing	0
MAD Scale Factor	0.6745	Number with Y Missing	0
		Sum of Robust Weights	995.592
Run Information	Value		
Iterations	17		
Max % Change in any Coef	0.000		
R ² after Robust Weighting	0.5228		
S using MAD	0.28		
S using MSE	0.26		
Completion Status	Warnings Issued		

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Descriptive Statistics

Variable	Count	Mean	Standard Deviation	Minimum	Maximum
LNBlock_area_sqm	1040	6.632	0.474	0	8.88516409509682
LNHouse_area_sqm	1040	4.261	1.708	0	5.29831736654804
LNHouse_Floor_area_sqm	1040	4.721	0.584	0	5.73334127689775
LNBedrooms	1040	1.016	0.313	0	1.6094379124341
LNBedrooms	1040	0.099	0.250	0	1.09861228866811
LNCarSpaces	1040	0.385	0.462	0	1.6094379124341
LnDistMM	1040	7.571	0.393	6.09333954264191	8.38397347958564
LNDistToRailwayStation	1040	7.300	0.774	3.19976255695723	8.39451486977514
LNDIST_PubPrimSch	1040	7.293	0.657	2.90918641528462	8.37844064597854
LNNearestHighSch	1040	7.148	0.551	5.0820970759365	8.35287157994558
LNDistance_to_AqCentre	1040	8.232	0.170	7.73138562428694	8.78930796250832
LNDistance_to_Clink	1040	7.342	0.584	3.44053910704444	8.45129896794273
LN_Dist_toCSUni	1040	7.997	0.519	5.56992793801675	8.74045412640072
LNMinParkDist	1040	6.736	0.689	3.3535067914896	7.99513540610637
LNComHealthCentre	1040	7.442	0.612	4.94249433248816	8.6478017782273
LNClosest_Petrol	1040	6.662	0.647	3.28920070606287	8.15695912932389
LNNearestFastFood	1040	6.960	0.634	4.0130174068459	8.17677374941964
LNDistToHosp	1040	7.363	0.683	5.15878670567525	8.51247526729416
LNNearestSGrocShop	1040	7.220	0.524	4.36535692945826	8.10147112914078
Dummy_2000	1040	0.633	0.472	0	1
Dummy_2005	1040	0.278	0.438	0	1
Dummy_2010	1040	0.089	0.279	0	1
Dummy_2015	1040	0.131	0.330	0	1
Dummy_2019	1040	0.147	0.346	0	1
Log_10_Sale_Price	1040	4.821	0.375	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		4.44219	0.02851	0.00376	0.01300
1	140.754	3.61773	0.02557	0.00355	0.01401
2	2263.916	4.15044	0.02524	0.00358	0.01359
3	114.701	3.29243	0.02522	0.00361	0.01344
4	114.406	3.38732	0.02524	0.00363	0.01338
5	1.425	3.38431	0.02525	0.00363	0.01336
6	163.375	3.06234	0.02525	0.00364	0.01335
7	584.054	3.78930	0.02525	0.00364	0.01335
8	29.362	3.66991	0.02525	0.00364	0.01335
9	100.000	3.38290	0.02525	0.00364	0.01335
10	0.035	3.38289	0.02525	0.00364	0.01335
11	198.386	2.99313	0.02525	0.00364	0.01335
12	39.195	3.01707	0.02525	0.00364	0.01335
13	430.316	3.38289	0.02525	0.00364	0.01335
14	11.496	3.36030	0.02525	0.00364	0.01335
15	1852.818	2.94181	0.02525	0.00364	0.01335
16	4518.914	3.38289	0.02525	0.00364	0.01335
17	0.000	3.38289	0.02525	0.00364	0.01335

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Robust Iterations - Residuals

Robust Iteration	Max Percent Change in Coefficients	Percentiles of Absolute Residuals			
		25th	50th	75th	100th
0		0.089	0.194	0.330	1.461
1	140.754	0.089	0.193	0.324	1.500
2	2263.916	0.088	0.193	0.324	1.507
3	114.701	0.089	0.194	0.324	1.508
4	114.406	0.089	0.194	0.325	1.508
5	1.425	0.089	0.194	0.325	1.508
6	163.375	0.089	0.194	0.325	1.508
7	584.054	0.089	0.194	0.325	1.508
8	29.362	0.089	0.194	0.325	1.508
9	100.000	0.089	0.194	0.325	1.508
10	0.035	0.089	0.194	0.325	1.508
11	198.386	0.089	0.194	0.325	1.508
12	39.195	0.089	0.194	0.325	1.508
13	430.316	0.089	0.194	0.325	1.508
14	11.496	0.089	0.194	0.325	1.508
15	1852.818	0.089	0.194	0.325	1.508
16	4518.914	0.089	0.194	0.325	1.508
17	0.000	0.089	0.194	0.325	1.508

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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	3.38289	1.542003	0.0000	2.194	0.0285	Yes
LNBlock_area_sqm	0.02525	0.019817	0.0319	1.274	0.2029	No
LNHouse_area_sqm	0.00364	0.005302	0.0166	0.686	0.4930	No
LNHouse_Floor_area_sqm	0.01335	0.014484	0.0208	0.922	0.3569	No
LNBedrooms	0.33826	0.028507	0.2827	11.866	0.0000	Yes
LNBedrooms	-0.00540	0.035502	-0.0036	-0.152	0.8791	No
LNCarSpaces	0.10183	0.019205	0.1254	5.302	0.0000	Yes
LnDistMM	0.03875	0.048382	0.0406	0.801	0.4234	No
LNDistToRailwayStation	-0.06866	0.028529	-0.1416	-2.407	0.0163	Yes
LNDIST_PubPrimSch	-0.05590	0.026616	-0.0980	-2.100	0.0360	Yes
LNNearestHighSch	-0.02187	0.026155	-0.0321	-0.836	0.4033	No
LNDistance_to_AqCentre	0.03187	0.254578	0.0144	0.125	0.9004	No
LNDistance_to_Clink	0.06584	0.043595	0.1024	1.510	0.1313	No
LN_Dist_toCSUni	0.03945	0.038431	0.0545	1.026	0.3049	No
LNMinParkDist	-0.00139	0.020258	-0.0026	-0.069	0.9453	No
LNComHealthCentre	0.01426	0.036461	0.0233	0.391	0.6958	No
LNClosest_Petrol	0.01629	0.020293	0.0281	0.803	0.4222	No
LNNearestFastFood	0.00024	0.029116	0.0004	0.008	0.9935	No
LNDistToHosp	0.00145	0.033947	0.0026	0.043	0.9660	No
LNNearestSGrocShop	0.07035	0.044459	0.0983	1.582	0.1139	No
Dummy_2000	-0.45084	0.032737	-0.5671	-13.771	0.0000	Yes
Dummy_2005	-0.19647	0.032259	-0.2297	-6.090	0.0000	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.44627	0.028890	0.3930	15.447	0.0000	Yes
Dummy_2019	0.51897	0.027466	0.4791	18.895	0.0000	Yes

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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	3.38289	1.670994	0.0000	2.024	0.0432	Yes
LNBlock_area_sqm	0.02525	0.021852	0.0319	1.156	0.2481	No
LNHouse_area_sqm	0.00364	0.005832	0.0166	0.624	0.5331	No
LNHouse_Floor_area_sqm	0.01335	0.015828	0.0208	0.843	0.3992	No
LNBedrooms	0.33826	0.030963	0.2827	10.925	0.0000	Yes
LNBedrooms	-0.00540	0.038831	-0.0036	-0.139	0.8894	No
LNCarSpaces	0.10183	0.021257	0.1254	4.790	0.0000	Yes
LnDistMM	0.03875	0.053507	0.0406	0.724	0.4692	No
LNDistToRailwayStation	-0.06866	0.030982	-0.1416	-2.216	0.0269	Yes
LNDIST_PubPrimSch	-0.05590	0.029480	-0.0980	-1.896	0.0582	No
LNNearestHighSch	-0.02187	0.028744	-0.0321	-0.761	0.4469	No
LNDistance_to_AqCentre	0.03187	0.276675	0.0144	0.115	0.9083	No
LNDistance_to_Clink	0.06584	0.047996	0.1024	1.372	0.1704	No
LN_Dist_toCSUni	0.03945	0.042031	0.0545	0.939	0.3482	No
LNMinParkDist	-0.00139	0.022382	-0.0026	-0.062	0.9505	No
LNComHealthCentre	0.01426	0.039999	0.0233	0.357	0.7215	No
LNClosest_Petrol	0.01629	0.022491	0.0281	0.724	0.4690	No
LNNearestFastFood	0.00024	0.032238	0.0004	0.007	0.9941	No
LNDistToHosp	0.00145	0.037586	0.0026	0.038	0.9693	No
LNNearestSGrocShop	0.07035	0.049141	0.0983	1.432	0.1526	No
Dummy_2000	-0.45084	0.036332	-0.5671	-12.409	0.0000	Yes
Dummy_2005	-0.19647	0.035823	-0.2297	-5.484	0.0000	Yes
Dummy_2010	0.00000	0.000000	0.0000	0.000	1.0000	No
Dummy_2015	0.44627	0.031883	0.3930	13.997	0.0000	Yes
Dummy_2019	0.51897	0.030193	0.4791	17.189	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	3.38289	1.542003	0.36062	6.40516
LNBlock_area_sqm	0.02525	0.019817	-0.01359	0.06409
LNHouse_area_sqm	0.00364	0.005302	-0.00676	0.01403
LNHouse_Floor_area_sqm	0.01335	0.014484	-0.01504	0.04174
LNBedrooms	0.33826	0.028507	0.28239	0.39413
LNBedrooms	-0.00540	0.035502	-0.07499	0.06418
LNCarSpaces	0.10183	0.019205	0.06419	0.13947
LnDistMM	0.03875	0.048382	-0.05608	0.13357
LNDistToRailwayStation	-0.06866	0.028529	-0.12458	-0.01275
LNDIST_PubPrimSch	-0.05590	0.026616	-0.10806	-0.00373
LNNearestHighSch	-0.02187	0.026155	-0.07313	0.02939
LNDistance_to_AqCentre	0.03187	0.254578	-0.46710	0.53083
LNDistance_to_Clink	0.06584	0.043595	-0.01961	0.15128
LN_Dist_toCSUni	0.03945	0.038431	-0.03588	0.11477
LNMinParkDist	-0.00139	0.020258	-0.04109	0.03832
LNComHealthCentre	0.01426	0.036461	-0.05720	0.08572
LNClosest_Petrol	0.01629	0.020293	-0.02348	0.05607
LNNearestFastFood	0.00024	0.029116	-0.05683	0.05730
LNDistToHosp	0.00145	0.033947	-0.06509	0.06798
LNNearestSGrocShop	0.07035	0.044459	-0.01679	0.15749
Dummy_2000	-0.45084	0.032737	-0.51500	-0.38667
Dummy_2005	-0.19647	0.032259	-0.25969	-0.13324
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.44627	0.028890	0.38965	0.50289
Dummy_2019	0.51897	0.027466	0.46514	0.57280

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	3.38289	1.670994	0.10780	6.65798
LNBlock_area_sqm	0.02525	0.021852	-0.01758	0.06808
LNHouse_area_sqm	0.00364	0.005832	-0.00779	0.01507
LNHouse_Floor_area_sqm	0.01335	0.015828	-0.01767	0.04437
LNBedrooms	0.33826	0.030963	0.27757	0.39894
LNBedrooms	-0.00540	0.038831	-0.08151	0.07070
LNCarSpaces	0.10183	0.021257	0.06017	0.14349
LnDistMM	0.03875	0.053507	-0.06613	0.14362
LNDistToRailwayStation	-0.06866	0.030982	-0.12939	-0.00794
LNDIST_PubPrimSch	-0.05590	0.029480	-0.11368	0.00188
LNNearestHighSch	-0.02187	0.028744	-0.07821	0.03447
LNDistance_to_AqCentre	0.03187	0.276675	-0.51041	0.57414
LNDistance_to_Clink	0.06584	0.047996	-0.02823	0.15991
LN_Dist_toCSUni	0.03945	0.042031	-0.04293	0.12183
LNMinParkDist	-0.00139	0.022382	-0.04526	0.04248
LNComHealthCentre	0.01426	0.039999	-0.06414	0.09266
LNClosest_Petrol	0.01629	0.022491	-0.02779	0.06037
LNNearestFastFood	0.00024	0.032238	-0.06295	0.06342
LNDistToHosp	0.00145	0.037586	-0.07222	0.07511
LNNearestSGrocShop	0.07035	0.049141	-0.02596	0.16667
Dummy_2000	-0.45084	0.036332	-0.52205	-0.37963
Dummy_2005	-0.19647	0.035823	-0.26668	-0.12626
Dummy_2010	0.00000	0.000000		
Dummy_2015	0.44627	0.031883	0.38378	0.50876
Dummy_2019	0.51897	0.030193	0.45979	0.57815

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

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Estimated Equation

Log_10_Sale_Price =
 3.38288889238364 + 0.0252523454627445 * LNBlock_area_sqm + 0.00363634726299407 *
 LNHouse_area_sqm + 0.0133492924042651 * LNHouse_Floor_area_sqm + 0.338256933202557 * LNBedrooms
 - 0.00540248801178077 * LNBathrooms + 0.101830019991203 * LNCarSpaces + 0.0387463555500772 *
 LnDistMM - 0.0686629603254887 * LNDistToRailwayStation - 0.0558977647720772 * LNDIST_PubPrimSch -
 0.0218701918910047 * LNNearestHighSch + 0.0318671482966197 * LNDistance_to_AqCentre +
 0.0658383815048125 * LNDistance_to_Clink + 0.0394464015814577 * LN_Dist_toCSUni -
 0.00138932300860089 * LNMinParkDist + 0.0142603251886514 * LNComHealthCentre + 0.0162929419662649
 * LNClosest_Petrol + 0.000238156830694242 * LNNearestFastFood + 0.00144617920366886 * LNDistToHosp +
 0.070351881957141 * LNNearestSGrocShop - 0.450837199076415 * Dummy_2000 - 0.19646656011038 *
 Dummy_2005 + 0 * Dummy_2010 + 0.446269757549662 * Dummy_2015 + 0.518970706373635 * Dummy_2019

Analysis of Variance

Source	DF	R ²	Sum of Squares	Mean Square	F-Ratio	Prob Level
Intercept	1		23136.28	23136.28		
Model	24	0.5228	76.43	3.18	46.332	0.0000
Error	1015	0.4772	69.76	0.07		
Total(Adjusted)	1039	1.0000	146.19	0.14		

PRESS Report

Parameter	From PRESS Residuals	From Regular Residuals
Sum of Squared Residuals	95.02	69.76
Sum of Residuals	243.27	237.99
R ²	0.3501	0.5228

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Normality Tests

Test Name	Test Statistic to Test H0: Normal	Prob Level	Reject H0 at 20%?
Shapiro Wilk	0.978	0.0000	Yes
Anderson Darling	3.484	0.0000	Yes
D'Agostino Skewness	-9.150	0.0000	Yes
D'Agostino Kurtosis	6.081	0.0000	Yes
D'Agostino Omnibus	120.697	0.0000	Yes

Serial Correlation of Residuals

Lag	Serial Correlation	Lag	Serial Correlation	Lag	Serial Correlation
1	0.0458	9	0.0719	17	-0.0312
2	0.0190	10	0.0601	18	0.0085
3	0.0468	11	-0.0370	19	-0.0128
4	0.0242	12	-0.0197	20	0.0155
5	0.0012	13	0.0147	21	0.0389
6	-0.0158	14	0.0214	22	-0.0434
7	-0.0321	15	0.0477	23	-0.0295
8	-0.0530	16	0.0114	24	-0.0176

Above serial correlations are significant if their absolute values are greater than 0.0620.

Durbin-Watson Test For Serial Correlation

Parameter	Test Statistic to Test H0: $\rho(1) = 0$?	Reject H0 at 20%?
Durbin-Watson Value	1.908	
Prob. Level: Positive Serial Correlation	0.0377	Yes
Prob. Level: Negative Serial Correlation	0.8763	No

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R² Report

Independent Variable (IV)	Total R ² for this IV and IV's Above	Increase in R ² if this IV Included with IV's Above	Decrease in R ² if this IV was Removed	R ² if this IV was Fit Alone	Partial R ² if Adjusted for All Other IV's
LNBlock_area_sqm	0.0237	0.0237	0.0008	0.0237	0.0016
LNHouse_area_sqm	0.0826	0.0588	0.0002	0.0626	0.0005
LNHouse_Floor_area_sqm	0.0968	0.0142	0.0004	0.0242	0.0008
LNBedrooms	0.2212	0.1244	0.0662	0.1532	0.1218
LNBedrooms	0.2223	0.0011	0.0000	0.0207	0.0000
LNCarSpaces	0.2483	0.0260	0.0132	0.0750	0.0270
LnDistMM	0.2682	0.0199	0.0003	0.0477	0.0006
LNDistToRailwayStation	0.2720	0.0038	0.0027	0.0049	0.0057
LNDIST_PubPrimSch	0.2785	0.0065	0.0021	0.0264	0.0043
LNNearestHighSch	0.2794	0.0009	0.0003	0.0002	0.0007
LNDistance_to_AqCentre	0.2872	0.0078	0.0000	0.0131	0.0000
LNDistance_to_Clink	0.2883	0.0011	0.0011	0.0073	0.0022
LN_Dist_toCSUni	0.2900	0.0017	0.0005	0.0301	0.0010
LNMinParkDist	0.2922	0.0022	0.0000	0.0102	0.0000
LNComHealthCentre	0.2923	0.0001	0.0001	0.0003	0.0002
LNClosest_Petrol	0.2926	0.0004	0.0003	0.0283	0.0006
LNNearestFastFood	0.2943	0.0017	0.0000	0.0091	0.0000
LNDistToHosp	0.2943	0.0000	0.0000	0.0062	0.0000
LNNearestSGrocShop	0.2955	0.0012	0.0012	0.0408	0.0025
Dummy_2000	0.3001	0.0046	0.0892	0.0206	0.1574
Dummy_2005	0.3145	0.0143	0.0174	0.0020	0.0353
Dummy_2010	0.0000	0.0000	0.0000	0.0299	0.0000
Dummy_2015	0.3549	0.0405	0.1122	0.0541	0.1903
Dummy_2019	0.5228	0.1679	0.1679	0.0898	0.2602

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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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	0.5228	0.07			
LNBlock_area_sqm	0.5220	0.07	24.624	0.2029	0.2498
LNHouse_area_sqm	0.5226	0.07	23.470	0.4930	0.1935
LNHouse_Floor_area_sqm	0.5224	0.07	23.849	0.3569	0.0766
LNBedrooms	0.4566	0.08	163.800	0.0000	0.1714
LNBedrooms	0.5228	0.07	23.023	0.8791	0.1574
LNCarSpaces	0.5096	0.07	51.113	0.0000	0.1601
LnDistMM	0.5225	0.07	23.641	0.4234	0.8174
LNDistToRailwayStation	0.5201	0.07	28.793	0.0163	0.8642
LNDIST_PubPrimSch	0.5207	0.07	27.411	0.0360	0.7839
LNNearestHighSch	0.5225	0.07	23.699	0.4033	0.6817
LNDistance_to_AqCentre	0.5228	0.07	23.016	0.9004	0.9646
LNDistance_to_Clink	0.5217	0.07	25.281	0.1313	0.8978
LN_Dist_toCSUni	0.5223	0.07	24.054	0.3049	0.8335
LNMinParkDist	0.5228	0.07	23.005	0.9453	0.6601
LNComHealthCentre	0.5227	0.07	23.153	0.6958	0.8672
LNClosest_Petrol	0.5225	0.07	23.645	0.4222	0.6163
LNNearestFastFood	0.5228	0.07	23.000	0.9935	0.8057
LNDistToHosp	0.5228	0.07	23.002	0.9660	0.8769
LNNearestSGrocShop	0.5216	0.07	25.504	0.1139	0.8781
Dummy_2000	0.4336	0.08	212.650	0.0000	0.7227
Dummy_2005	0.5054	0.07	60.092	0.0000	0.6694
Dummy_2010	0.5228	0.07	23.000	1.0000	
Dummy_2015	0.4106	0.08	261.613	0.0000	0.2738
Dummy_2019	0.3549	0.09	380.021	0.0000	0.2688

Robust Multiple Regression Report

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

Dependent Log_10_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
LNBlock_area_sqm	3.47	3.47	0.11	0.1541	0.0400
LNHouse_area_sqm	12.07	8.60	0.03	0.2502	0.0215
LNHouse_Floor_area_sqm	14.15	2.08	0.06	0.1556	0.0289
LNBedrooms	32.34	18.19	9.68	0.3914	0.3490
LNBedrooms	32.50	0.16	0.00	0.1438	-0.0048
LNCarSpaces	36.31	3.81	1.93	0.2739	0.1642
LnDistMM	39.21	2.90	0.04	0.2184	0.0251
LNDistToRailwayStation	39.76	0.55	0.40	0.0699	-0.0753
LNDIST_PubPrimSch	40.72	0.96	0.30	-0.1626	-0.0658
LNNearestHighSch	40.85	0.13	0.05	-0.0156	-0.0262
LNDistance_to_AqCentre	41.99	1.14	0.00	0.1145	0.0039
LNDistance_to_Clink	42.14	0.16	0.16	0.0853	0.0473
LN_Dist_toCSUni	42.39	0.25	0.07	0.1735	0.0322
LNMinParkDist	42.71	0.32	0.00	0.1009	-0.0022
LNComHealthCentre	42.73	0.02	0.01	0.0179	0.0123
LNClosest_Petrol	42.78	0.05	0.04	0.1681	0.0252
LNNearestFastFood	43.02	0.24	0.00	0.0956	0.0003
LNDistToHosp	43.02	0.00	0.00	-0.0785	0.0013
LNNearestSGrocShop	43.20	0.17	0.17	0.2019	0.0496
Dummy_2000	43.87	0.68	13.04	-0.1436	-0.3968
Dummy_2005	45.97	2.10	2.55	0.0445	-0.1878
Dummy_2010	0.00	0.00	0.00	0.1728	0.0000
Dummy_2015	51.89	5.92	16.40	0.2326	0.4363
Dummy_2019	76.43	24.54	24.54	0.2997	0.5101

Robust Multiple Regression Report

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

Dependent Log_10_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
LNBlock_area_sqm	0.0237	25.244	0.0000	0.4991	46.151	0.0000
LNHouse_area_sqm	0.0826	46.674	0.0000	0.4402	42.560	0.0000
LNHouse_Floor_area_sqm	0.0968	37.003	0.0000	0.4260	43.149	0.0000
LNBedrooms	0.2212	73.486	0.0000	0.3016	32.076	0.0000
LNBedrooms	0.2223	59.113	0.0000	0.3005	33.639	0.0000
LNCarSpaces	0.2483	56.882	0.0000	0.2745	32.431	0.0000
LnDistMM	0.2682	54.032	0.0000	0.2546	31.854	0.0000
LNDistToRailwayStation	0.2720	48.145	0.0000	0.2508	33.343	0.0000
LNDIST_PubPrimSch	0.2785	44.178	0.0000	0.2443	34.639	0.0000
LNNearestHighSch	0.2794	39.901	0.0000	0.2434	36.976	0.0000
LNDistance_to_AqCentre	0.2872	37.654	0.0000	0.2356	38.548	0.0000
LNDistance_to_Clink	0.2883	34.664	0.0000	0.2345	41.569	0.0000
LN_Dist_toCSUni	0.2900	32.234	0.0000	0.2328	45.017	0.0000
LNMinParkDist	0.2922	30.218	0.0000	0.2306	49.058	0.0000
LNComHealthCentre	0.2923	28.191	0.0000	0.2305	54.482	0.0000
LNClosest_Petrol	0.2926	26.450	0.0000	0.2302	61.196	0.0000
LNNearestFastFood	0.2943	25.070	0.0000	0.2285	69.431	0.0000
LNDistToHosp	0.2943	23.654	0.0000	0.2285	81.003	0.0000
LNNearestSGrocShop	0.2955	22.515	0.0000	0.2273	96.700	0.0000
Dummy_2000	0.3001	21.847	0.0000	0.2227	118.412	0.0000
Dummy_2005	0.3145	22.235	0.0000	0.2083	147.715	0.0000
Dummy_2010	0.0000	0.000	1.0000	0.5228	555.987	0.0000
Dummy_2015	0.3549	24.307	0.0000	0.1679	357.021	0.0000
Dummy_2019	0.5228	46.332	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 Log_10_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
LNBlock_area_sqm	1.3330	0.2498	0.7502	0.00571357779582145
LNHouse_area_sqm	1.2399	0.1935	0.8065	0.000408961905740214
LNHouse_Floor_area_sqm	1.0830	0.0766	0.9234	0.00305210602590865
LNBedrooms	1.2069	0.1714	0.8286	0.0118229189528877
LNBedrooms	1.1869	0.1574	0.8426	0.0183375381535655
LNCarSpaces	1.1906	0.1601	0.8399	0.00536631693935924
LnDistMM	5.4755	0.8174	0.1826	0.0340568784356829
LNDistToRailwayStation	7.3643	0.8642	0.1358	0.0118413254390526
LNDIST_PubPrimSch	4.6285	0.7839	0.2161	0.0103066966773191
LNNearestHighSch	3.1419	0.6817	0.3183	0.00995297270677807
LNDistance_to_AqCentre	28.2616	0.9646	0.0354	0.942926586078441
LNDistance_to_Clink	9.7875	0.8978	0.1022	0.027651377862483
LN_Dist_toCSUni	6.0055	0.8335	0.1665	0.0214878674188776
LNMinParkDist	2.9423	0.6601	0.3399	0.00597089318432741
LNComHealthCentre	7.5298	0.8672	0.1328	0.0193413443306065
LNClosest_Petrol	2.6061	0.6163	0.3837	0.00599155738626833
LNNearestFastFood	5.1480	0.8057	0.1943	0.0123336293529836
LNDistToHosp	8.1229	0.8769	0.1231	0.0167663991634815
LNNearestSGrocShop	8.2057	0.8781	0.1219	0.0287579136948313
Dummy_2000	3.6068	0.7227	0.2773	0.0155927272399917
Dummy_2005	3.0247	0.6694	0.3306	0.01514017610504
Dummy_2010	0.0000			0
Dummy_2015	1.3771	0.2738	0.7262	0.0121432844154277
Dummy_2019	1.3675	0.2688	0.7312	0.0109755707700179

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1	4.230	4.233	-0.002	0.054	1.0000
2	5.114	4.590	0.524	10.242	0.7254
3	5.190	4.785	0.405	7.805	0.9379
4	4.860	4.704	0.156	3.213	1.0000
5	5.130	4.871	0.260	5.059	1.0000
6	4.255	4.217	0.038	0.900	1.0000
7	4.342	4.444	-0.101	2.334	1.0000
8	4.230	4.379	-0.148	3.506	1.0000
9	4.740	4.158	0.583	12.295	0.6519
10	4.290	4.343	-0.053	1.236	1.0000
11	4.544	4.643	-0.099	2.188	1.0000
12	4.477	4.577	-0.099	2.221	1.0000
13	4.964	4.541	0.423	8.523	0.8980
14	4.653	4.649	0.004	0.083	1.0000
15	4.699	4.675	0.024	0.512	1.0000
16	4.070	4.172	-0.102	2.504	1.0000
17	4.342	4.553	-0.210	4.846	1.0000
18	4.740	4.460	0.281	5.923	1.0000
19	4.602	4.612	-0.010	0.213	1.0000
20	4.342	4.330	0.012	0.286	1.0000
21	4.653	4.625	0.028	0.600	1.0000
22	4.000	4.958	-0.958	23.938	0.3968
23	4.602	4.660	-0.058	1.259	1.0000
24	4.301	4.419	-0.118	2.739	1.0000
25	4.643	4.531	0.113	2.428	1.0000
26	4.000	4.535	-0.535	13.387	0.7096
27	4.509	4.557	-0.048	1.060	1.0000
28	4.591	4.540	0.051	1.122	1.0000
29	4.618	4.515	0.103	2.221	1.0000
30	5.000	4.514	0.486	9.726	0.7813
31	4.602	4.514	0.088	1.912	1.0000
32	4.255	4.374	-0.119	2.794	1.0000
33	4.398	4.483	-0.085	1.935	1.0000
34	4.863	4.494	0.370	7.601	1.0000
35	4.954	4.488	0.466	9.405	0.8154
36	4.778	4.517	0.261	5.456	1.0000
37	4.000	4.546	-0.546	13.639	0.6964
38	4.591	4.585	0.006	0.126	1.0000
39	4.556	4.592	-0.036	0.783	1.0000
40	4.580	4.632	-0.052	1.136	1.0000
41	4.146	4.124	0.023	0.545	1.0000
42	4.875	4.664	0.211	4.326	1.0000
43	5.021	4.733	0.288	5.732	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
44	5.161	4.609	0.552	10.694	0.6883
45	4.881	4.704	0.177	3.630	1.0000
46	4.362	4.489	-0.127	2.909	1.0000
47	4.477	4.629	-0.152	3.402	1.0000
48	4.799	4.768	0.031	0.654	1.0000
49	4.690	4.555	0.135	2.874	1.0000
50	4.217	4.614	-0.396	9.400	0.9583
51	4.398	4.389	0.009	0.194	1.0000
52	4.079	4.511	-0.432	10.578	0.8805
53	3.845	4.875	-1.030	26.786	0.3689
54	3.929	4.085	-0.155	3.948	1.0000
55	4.484	4.658	-0.174	3.870	1.0000
56	4.623	4.534	0.089	1.930	1.0000
57	4.290	4.614	-0.324	7.548	1.0000
58	3.929	4.156	-0.227	5.773	1.0000
59	4.079	4.633	-0.554	13.578	0.6860
60	4.447	4.646	-0.199	4.482	1.0000
61	4.380	4.594	-0.214	4.877	1.0000
62	4.301	4.472	-0.171	3.973	1.0000
63	4.544	4.629	-0.085	1.875	1.0000
64	4.079	4.192	-0.112	2.755	1.0000
65	4.756	4.577	0.179	3.754	1.0000
66	4.230	4.686	-0.456	10.774	0.8336
67	4.699	4.661	0.038	0.819	1.0000
68	4.643	4.683	-0.040	0.851	1.0000
69	4.531	4.725	-0.194	4.275	1.0000
70	4.301	4.387	-0.086	2.001	1.0000
71	4.477	4.578	-0.101	2.259	1.0000
72	4.243	4.244	-0.001	0.015	1.0000
73	3.778	4.722	-0.944	24.973	0.4027
74	4.362	4.746	-0.384	8.808	0.9890
75	4.415	4.738	-0.323	7.323	1.0000
76	4.735	4.692	0.043	0.909	1.0000
77	4.869	4.562	0.307	6.300	1.0000
78	5.049	4.662	0.387	7.672	0.9808
79	4.439	4.558	-0.119	2.675	1.0000
80	4.690	4.552	0.139	2.955	1.0000
81	4.602	4.392	0.210	4.558	1.0000
82	4.919	4.659	0.260	5.278	1.0000
83	4.544	4.581	-0.037	0.809	1.0000
84	5.093	4.782	0.311	6.109	1.0000
85	4.146	4.257	-0.111	2.677	1.0000
86	4.176	4.587	-0.411	9.834	0.9252

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
87	4.176	4.152	0.024	0.570	1.0000
88	4.716	4.585	0.131	2.784	1.0000
89	4.362	4.429	-0.067	1.534	1.0000
90	3.845	4.065	-0.220	5.713	1.0000
91	4.505	4.360	0.145	3.215	1.0000
92	4.161	4.397	-0.235	5.654	1.0000
93	3.845	4.336	-0.491	12.765	0.7741
94	4.568	4.435	0.133	2.915	1.0000
95	4.362	4.218	0.144	3.296	1.0000
96	4.342	4.499	-0.157	3.615	1.0000
97	4.447	4.499	-0.052	1.175	1.0000
98	4.796	4.497	0.299	6.229	1.0000
99	4.255	4.555	-0.300	7.050	1.0000
100	4.352	4.436	-0.084	1.933	1.0000
101	3.845	4.134	-0.289	7.509	1.0000
102	3.954	4.436	-0.481	12.176	0.7891
103	4.380	4.347	0.033	0.747	1.0000
106	4.000	4.163	-0.163	4.081	1.0000
107	4.776	4.555	0.221	4.623	1.0000
108	4.633	4.539	0.094	2.036	1.0000
109	5.061	4.690	0.371	7.322	1.0000
110	4.255	4.214	0.042	0.978	1.0000
111	4.778	4.574	0.204	4.276	1.0000
113	5.255	4.712	0.543	10.331	0.6998
114	5.255	5.029	0.226	4.304	1.0000
115	4.903	4.756	0.147	2.992	1.0000
116	4.763	4.623	0.140	2.942	1.0000
117	4.929	4.740	0.190	3.852	1.0000
118	4.875	4.602	0.273	5.597	1.0000
119	4.940	4.721	0.219	4.424	1.0000
120	4.663	4.923	-0.260	5.576	1.0000
121	4.653	4.712	-0.059	1.267	1.0000
122	4.398	4.610	-0.212	4.828	1.0000
123	4.415	4.610	-0.195	4.424	1.0000
124	4.732	4.689	0.043	0.908	1.0000
125	4.041	4.629	-0.588	14.547	0.6463
126	4.736	4.845	-0.108	2.284	1.0000
127	5.161	4.939	0.223	4.314	1.0000
128	4.978	4.977	0.001	0.017	1.0000
129	5.146	4.976	0.170	3.305	1.0000
130	5.114	4.748	0.366	7.149	1.0000
131	5.049	4.780	0.269	5.324	1.0000
132	5.130	4.764	0.366	7.138	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
133	4.477	4.401	0.076	1.697	1.0000
134	4.544	4.630	-0.086	1.901	1.0000
135	4.699	4.692	0.007	0.140	1.0000
136	4.940	4.522	0.418	8.454	0.9099
137	4.204	4.807	-0.603	14.337	0.6304
138	4.505	4.688	-0.182	4.048	1.0000
139	4.380	4.770	-0.389	8.891	0.9756
140	4.505	4.746	-0.241	5.349	1.0000
141	4.978	4.549	0.429	8.615	0.8860
142	4.000	4.314	-0.314	7.840	1.0000
143	4.602	4.461	0.141	3.072	1.0000
144	4.922	4.471	0.451	9.155	0.8432
145	4.672	4.544	0.128	2.743	1.0000
146	4.301	4.556	-0.255	5.931	1.0000
147	4.477	4.678	-0.201	4.488	1.0000
148	4.061	4.690	-0.629	15.500	0.6037
149	4.398	4.513	-0.115	2.616	1.0000
150	4.230	4.363	-0.133	3.138	1.0000
151	4.602	4.613	-0.011	0.239	1.0000
152	4.498	4.355	0.143	3.184	1.0000
153	3.699	4.114	-0.415	11.222	0.9153
154	4.820	4.464	0.355	7.368	1.0000
155	4.477	4.533	-0.056	1.246	1.0000
156	4.176	4.468	-0.292	6.981	1.0000
157	4.987	4.696	0.291	5.840	1.0000
158	4.301	4.615	-0.314	7.295	1.0000
159	4.512	4.573	-0.061	1.356	1.0000
160	4.477	4.479	-0.002	0.038	1.0000
161	4.699	4.364	0.335	7.124	1.0000
162	4.079	4.130	-0.051	1.240	1.0000
163	4.978	4.658	0.320	6.422	1.0000
164	4.643	4.382	0.262	5.640	1.0000
165	4.531	4.438	0.093	2.054	1.0000
166	4.940	4.730	0.209	4.233	1.0000
167	4.699	4.638	0.061	1.292	1.0000
168	4.079	4.735	-0.656	16.082	0.5792
169	5.029	4.644	0.386	7.669	0.9850
170	4.423	4.438	-0.015	0.330	1.0000
171	4.826	4.594	0.232	4.800	1.0000
172	4.447	4.439	0.008	0.178	1.0000
173	4.301	4.078	0.223	5.174	1.0000
174	4.114	4.437	-0.323	7.848	1.0000
175	4.114	4.074	0.040	0.975	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
176	4.398	4.457	-0.059	1.345	1.0000
177	4.146	4.567	-0.421	10.158	0.9022
178	4.000	4.453	-0.453	11.329	0.8384
179	4.000	4.466	-0.466	11.646	0.8156
180	4.230	4.504	-0.274	6.472	1.0000
181	4.978	4.780	0.197	3.965	1.0000
182	4.900	4.651	0.249	5.079	1.0000
183	3.699	4.428	-0.729	19.714	0.5210
184	4.792	4.361	0.432	9.004	0.8805
185	4.799	4.534	0.265	5.529	1.0000
186	4.699	4.473	0.226	4.816	1.0000
187	4.845	4.732	0.113	2.340	1.0000
188	5.143	4.658	0.485	9.424	0.7839
189	4.380	4.553	-0.172	3.936	1.0000
190	4.597	4.772	-0.176	3.820	1.0000
191	4.716	4.612	0.104	2.197	1.0000
192	4.398	4.773	-0.375	8.535	1.0000
193	3.602	4.416	-0.814	22.596	0.4668
195	4.740	4.413	0.327	6.904	1.0000
196	4.978	4.692	0.286	5.739	1.0000
198	3.903	4.532	-0.629	16.111	0.6042
199	4.544	4.386	0.158	3.483	1.0000
200	4.519	4.415	0.103	2.289	1.0000
201	4.161	4.604	-0.443	10.640	0.8581
202	4.255	4.641	-0.386	9.073	0.9841
203	4.477	4.644	-0.166	3.718	1.0000
204	4.477	4.530	-0.053	1.191	1.0000
205	4.462	4.349	0.113	2.536	1.0000
206	4.000	4.356	-0.356	8.903	1.0000
207	4.398	4.635	-0.237	5.394	1.0000
208	4.204	4.388	-0.184	4.378	1.0000
210	4.740	4.542	0.199	4.193	1.0000
211	4.568	4.658	-0.090	1.970	1.0000
212	4.813	4.545	0.268	5.572	1.0000
214	4.362	4.604	-0.242	5.550	1.0000
215	4.000	4.647	-0.647	16.174	0.5873
216	3.964	4.245	-0.281	7.098	1.0000
217	4.255	4.531	-0.276	6.480	1.0000
218	4.681	4.564	0.117	2.508	1.0000
219	4.653	4.747	-0.094	2.025	1.0000
220	5.021	4.920	0.101	2.008	1.0000
221	4.740	4.638	0.103	2.168	1.0000
222	4.580	4.641	-0.061	1.338	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
227	4.732	4.660	0.072	1.529	1.0000
228	4.544	4.347	0.197	4.341	1.0000
229	4.978	4.679	0.299	6.009	1.0000
230	4.462	4.117	0.345	7.742	1.0000
231	4.342	4.544	-0.202	4.651	1.0000
232	4.940	4.497	0.443	8.961	0.8584
233	4.041	4.507	-0.466	11.532	0.8152
234	4.531	4.388	0.143	3.159	1.0000
236	5.000	4.614	0.386	7.715	0.9850
237	4.544	4.679	-0.135	2.963	1.0000
238	4.398	4.645	-0.247	5.609	1.0000
239	4.477	4.762	-0.285	6.361	1.0000
240	4.813	4.671	0.141	2.939	1.0000
241	5.161	4.907	0.254	4.924	1.0000
242	4.447	4.751	-0.304	6.832	1.0000
243	4.602	4.694	-0.092	2.003	1.0000
244	4.740	4.713	0.027	0.574	1.0000
245	4.875	4.662	0.213	4.369	1.0000
246	4.716	4.609	0.107	2.264	1.0000
247	5.011	4.658	0.353	7.036	1.0000
248	3.927	4.807	-0.879	22.393	0.4321
249	4.602	4.691	-0.089	1.939	1.0000
250	4.041	4.333	-0.291	7.204	1.0000
251	4.279	4.341	-0.062	1.454	1.0000
252	4.301	4.561	-0.260	6.047	1.0000
253	4.255	4.545	-0.290	6.810	1.0000
254	4.322	4.383	-0.060	1.398	1.0000
255	4.230	4.150	0.081	1.905	1.0000
256	4.398	4.514	-0.117	2.650	1.0000
257	4.000	4.143	-0.143	3.581	1.0000
258	4.279	4.626	-0.347	8.110	1.0000
259	4.544	4.462	0.083	1.816	1.0000
260	4.338	4.670	-0.333	7.665	1.0000
261	4.000	4.464	-0.464	11.606	0.8184
262	4.892	4.480	0.412	8.432	0.9211
263	4.146	4.345	-0.199	4.799	1.0000
264	4.580	4.572	0.008	0.169	1.0000
266	4.602	4.461	0.141	3.059	1.0000
267	4.342	4.471	-0.128	2.958	1.0000
268	4.690	4.533	0.157	3.346	1.0000
269	5.097	4.733	0.363	7.130	1.0000
270	4.690	4.758	-0.067	1.436	1.0000
271	4.875	4.638	0.237	4.866	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
272	4.740	4.643	0.098	2.059	1.0000
273	4.439	4.499	-0.060	1.342	1.0000
274	4.672	4.448	0.225	4.806	1.0000
275	4.597	4.728	-0.131	2.852	1.0000
276	4.633	4.433	0.200	4.320	1.0000
278	4.544	4.354	0.190	4.183	1.0000
279	4.176	4.420	-0.244	5.839	1.0000
280	4.398	4.373	0.025	0.573	1.0000
281	4.544	4.597	-0.053	1.162	1.0000
282	4.556	4.725	-0.168	3.697	1.0000
283	4.230	4.582	-0.352	8.318	1.0000
284	4.398	4.572	-0.174	3.964	1.0000
285	4.176	4.737	-0.561	13.437	0.6771
286	4.301	4.567	-0.266	6.184	1.0000
287	4.415	4.440	-0.025	0.563	1.0000
288	4.505	4.452	0.053	1.178	1.0000
289	4.146	4.059	0.087	2.102	1.0000
290	4.623	4.451	0.172	3.730	1.0000
291	4.724	4.671	0.054	1.136	1.0000
292	4.799	4.747	0.053	1.097	1.0000
293	4.477	4.404	0.073	1.623	1.0000
294	4.643	4.597	0.046	0.998	1.0000
295	4.000	4.491	-0.491	12.278	0.7737
296	5.061	4.565	0.495	9.789	0.7669
297	4.591	4.391	0.200	4.350	1.0000
298	4.778	4.463	0.315	6.589	1.0000
300	4.176	4.179	-0.002	0.059	1.0000
301	4.447	4.598	-0.151	3.389	1.0000
302	4.380	4.574	-0.193	4.414	1.0000
303	4.322	4.651	-0.329	7.614	1.0000
305	4.380	4.385	-0.005	0.112	1.0000
306	4.301	4.746	-0.445	10.338	0.8545
307	4.643	4.540	0.103	2.224	1.0000
309	4.778	4.445	0.333	6.962	1.0000
310	5.111	4.650	0.460	9.007	0.8254
311	4.505	4.665	-0.160	3.551	1.0000
312	4.279	4.361	-0.083	1.933	1.0000
313	4.332	4.478	-0.145	3.355	1.0000
315	5.106	4.540	0.565	11.074	0.6720
316	4.255	4.347	-0.092	2.159	1.0000
317	3.845	4.388	-0.543	14.121	0.6998
318	4.820	4.650	0.169	3.513	1.0000
319	4.633	4.152	0.481	10.391	0.7892

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
320	3.875	4.386	-0.511	13.197	0.7429
323	4.929	4.617	0.312	6.337	1.0000
324	4.279	4.473	-0.195	4.550	1.0000
325	4.398	4.664	-0.266	6.053	1.0000
326	5.204	4.712	0.492	9.453	0.7723
327	4.845	4.722	0.123	2.546	1.0000
328	4.681	4.677	0.004	0.095	1.0000
329	3.829	4.213	-0.384	10.021	0.9901
330	4.934	4.524	0.410	8.318	0.9256
331	4.672	4.520	0.152	3.261	1.0000
332	4.505	4.491	0.014	0.317	1.0000
333	4.736	4.743	-0.007	0.145	1.0000
334	4.398	4.393	0.005	0.112	1.0000
335	4.301	4.542	-0.241	5.612	1.0000
336	4.771	4.554	0.217	4.546	1.0000
337	3.954	4.418	-0.464	11.722	0.8197
338	4.362	4.721	-0.359	8.240	1.0000
339	4.716	4.603	0.113	2.401	1.0000
341	4.301	4.728	-0.427	9.926	0.8900
342	4.623	4.781	-0.158	3.414	1.0000
343	4.000	4.624	-0.624	15.609	0.6085
344	4.415	4.512	-0.097	2.190	1.0000
346	4.176	4.534	-0.358	8.577	1.0000
347	4.255	4.641	-0.385	9.053	0.9862
348	4.623	4.506	0.117	2.526	1.0000
349	4.940	4.643	0.297	6.012	1.0000
350	5.204	4.756	0.448	8.610	0.8480
351	4.740	4.801	-0.060	1.275	1.0000
352	5.097	4.888	0.209	4.101	1.0000
353	5.057	4.641	0.416	8.232	0.9127
354	5.398	4.957	0.441	8.168	0.8617
355	4.447	4.504	-0.056	1.269	1.0000
356	4.826	4.279	0.547	11.330	0.6949
357	4.000	4.827	-0.827	20.682	0.4593
358	5.041	4.777	0.265	5.247	1.0000
359	4.477	4.505	-0.027	0.614	1.0000
360	4.000	4.522	-0.522	13.062	0.7272
361	4.342	4.668	-0.325	7.491	1.0000
362	4.322	4.154	0.169	3.903	1.0000
363	4.886	4.541	0.345	7.061	1.0000
364	4.544	4.388	0.156	3.425	1.0000
365	4.699	4.483	0.216	4.606	1.0000
366	4.544	4.193	0.351	7.733	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
367	4.519	4.394	0.125	2.763	1.0000
368	5.021	4.640	0.381	7.593	0.9966
369	4.924	4.738	0.186	3.781	1.0000
370	5.219	4.447	0.771	14.780	0.4926
371	4.519	4.529	-0.011	0.234	1.0000
372	4.699	4.131	0.567	12.077	0.6695
373	4.968	4.588	0.381	7.663	0.9979
374	4.519	4.513	0.006	0.129	1.0000
375	4.857	4.511	0.347	7.134	1.0000
377	4.544	4.528	0.016	0.357	1.0000
378	4.648	4.423	0.225	4.845	1.0000
379	4.699	4.506	0.193	4.104	1.0000
380	4.146	4.163	-0.017	0.400	1.0000
381	4.653	4.748	-0.095	2.044	1.0000
382	4.398	4.490	-0.092	2.097	1.0000
383	4.886	4.625	0.261	5.344	1.0000
384	4.851	4.602	0.249	5.132	1.0000
386	5.255	4.680	0.575	10.946	0.6605
387	4.823	4.797	0.025	0.526	1.0000
388	5.398	4.948	0.450	8.335	0.8445
389	4.519	4.874	-0.356	7.868	1.0000
390	5.130	4.799	0.331	6.459	1.0000
392	4.398	4.624	-0.226	5.133	1.0000
393	4.929	4.736	0.194	3.929	1.0000
394	4.653	4.759	-0.106	2.274	1.0000
396	4.477	4.402	0.075	1.679	1.0000
397	4.243	4.528	-0.285	6.722	1.0000
398	4.000	4.475	-0.475	11.864	0.8006
399	4.833	4.645	0.188	3.884	1.0000
400	4.869	4.834	0.035	0.717	1.0000
402	4.301	4.613	-0.312	7.243	1.0000
404	5.255	4.397	0.859	16.339	0.4425
405	5.041	4.772	0.269	5.338	1.0000
406	4.914	4.792	0.121	2.471	1.0000
407	5.000	4.717	0.283	5.653	1.0000
408	5.152	4.737	0.415	8.058	0.9152
409	4.663	4.716	-0.053	1.134	1.0000
410	4.919	4.740	0.179	3.641	1.0000
411	4.053	4.668	-0.615	15.176	0.6177
412	4.748	4.786	-0.038	0.802	1.0000
414	4.792	4.906	-0.114	2.372	1.0000
415	5.000	5.084	-0.084	1.676	1.0000
416	4.949	4.951	-0.002	0.042	1.0000

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
417	4.638	4.685	-0.046	0.998	1.0000
418	5.083	5.031	0.051	1.012	1.0000
419	5.230	4.883	0.347	6.638	1.0000
421	5.176	4.847	0.329	6.365	1.0000
422	4.505	4.785	-0.280	6.215	1.0000
423	4.991	4.943	0.048	0.969	1.0000
424	4.820	4.685	0.135	2.792	1.0000
425	4.954	4.716	0.238	4.810	1.0000
426	4.792	4.702	0.090	1.882	1.0000
427	4.699	4.652	0.047	0.994	1.0000
428	4.103	4.652	-0.549	13.388	0.6918
429	4.820	4.726	0.094	1.946	1.0000
430	4.991	4.674	0.318	6.363	1.0000
431	5.161	4.869	0.293	5.673	1.0000
434	4.477	4.648	-0.171	3.817	1.0000
435	5.114	4.730	0.384	7.502	0.9904
436	5.176	4.850	0.327	6.309	1.0000
437	4.813	5.066	-0.253	5.263	1.0000
439	4.813	4.932	-0.119	2.466	1.0000
440	4.380	4.879	-0.499	11.394	0.7613
441	4.748	4.500	0.248	5.224	1.0000
442	4.813	4.280	0.533	11.069	0.7132
447	5.041	4.846	0.195	3.871	1.0000
450	5.161	4.966	0.195	3.783	1.0000
451	4.954	4.756	0.198	4.003	1.0000
455	4.813	4.600	0.213	4.420	1.0000
456	4.477	4.768	-0.291	6.498	1.0000
457	4.964	4.942	0.022	0.438	1.0000
458	5.230	4.947	0.284	5.422	1.0000
459	5.161	4.844	0.318	6.155	1.0000
460	4.863	4.640	0.224	4.596	1.0000
464	5.121	4.786	0.335	6.538	1.0000
465	5.079	4.816	0.264	5.191	1.0000
466	4.342	4.691	-0.348	8.017	1.0000
467	4.778	4.815	-0.036	0.763	1.0000
468	4.720	4.703	0.018	0.374	1.0000
469	5.188	4.964	0.224	4.311	1.0000
472	4.954	5.078	-0.124	2.504	1.0000
474	4.778	4.853	-0.075	1.568	1.0000
475	4.826	4.964	-0.138	2.851	1.0000
476	4.763	5.026	-0.263	5.515	1.0000
477	4.929	4.796	0.134	2.716	1.0000
478	5.041	4.804	0.238	4.718	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
479	5.064	4.871	0.194	3.829	1.0000
481	5.114	4.933	0.181	3.535	1.0000
482	5.574	5.200	0.374	6.703	1.0000
483	4.788	5.102	-0.315	6.570	1.0000
484	3.801	5.086	-1.285	33.810	0.2956
485	4.752	5.086	-0.334	7.031	1.0000
486	3.845	5.024	-1.179	30.671	0.3222
487	4.954	4.723	0.232	4.674	1.0000
490	4.398	4.662	-0.265	6.016	1.0000
491	5.104	4.968	0.135	2.655	1.0000
492	4.352	4.714	-0.361	8.306	1.0000
493	5.097	4.753	0.344	6.742	1.0000
495	5.435	5.108	0.326	6.006	1.0000
496	4.047	4.574	-0.527	13.035	0.7203
497	4.602	4.856	-0.254	5.514	1.0000
498	4.712	4.788	-0.077	1.625	1.0000
500	4.991	4.760	0.231	4.626	1.0000
502	4.845	4.949	-0.104	2.145	1.0000
503	4.991	4.981	0.010	0.207	1.0000
511	4.944	4.935	0.009	0.191	1.0000
514	4.813	4.919	-0.106	2.195	1.0000
526	4.447	4.598	-0.150	3.383	1.0000
527	4.602	4.608	-0.006	0.131	1.0000
530	5.130	4.861	0.269	5.253	1.0000
531	4.602	4.796	-0.194	4.205	1.0000
536	5.079	4.706	0.373	7.340	1.0000
539	4.562	4.583	-0.021	0.455	1.0000
542	4.681	4.909	-0.228	4.866	1.0000
544	5.107	4.711	0.396	7.751	0.9598
545	4.431	4.848	-0.417	9.399	0.9122
547	4.431	5.029	-0.598	13.497	0.6353
549	4.699	4.717	-0.018	0.388	1.0000
551	4.845	4.816	0.029	0.592	1.0000
555	4.816	4.585	0.231	4.796	1.0000
557	4.857	4.792	0.065	1.344	1.0000
560	4.813	4.625	0.188	3.913	1.0000
562	4.799	5.055	-0.255	5.320	1.0000
565	4.623	4.866	-0.242	5.244	1.0000
566	4.866	4.865	0.002	0.034	1.0000
567	4.778	4.876	-0.098	2.054	1.0000
571	4.857	4.884	-0.026	0.542	1.0000
572	4.544	4.951	-0.407	8.956	0.9336
573	4.544	5.194	-0.650	14.312	0.5842

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
574	5.398	5.193	0.205	3.795	1.0000
575	5.430	5.193	0.237	4.359	1.0000
576	4.875	4.861	0.014	0.289	1.0000
577	5.086	5.070	0.017	0.328	1.0000
578	5.161	4.926	0.235	4.555	1.0000
580	5.130	5.112	0.018	0.353	1.0000
581	5.170	5.026	0.145	2.800	1.0000
587	4.845	5.138	-0.293	6.040	1.0000
588	4.580	4.869	-0.289	6.314	1.0000
591	5.267	4.852	0.415	7.885	0.9148
595	4.763	4.845	-0.081	1.705	1.0000
598	4.613	4.711	-0.098	2.124	1.0000
599	4.740	4.818	-0.078	1.643	1.0000
601	5.312	5.129	0.183	3.440	1.0000
602	5.037	5.097	-0.059	1.179	1.0000
605	5.037	4.926	0.111	2.203	1.0000
606	5.243	4.932	0.312	5.941	1.0000
609	4.898	4.769	0.128	2.622	1.0000
610	4.362	4.731	-0.369	8.456	1.0000
611	5.262	4.869	0.394	7.478	0.9655
612	4.301	4.863	-0.562	13.072	0.6758
613	4.833	4.775	0.058	1.192	1.0000
614	4.940	4.840	0.099	2.010	1.0000
619	4.398	4.649	-0.252	5.720	1.0000
620	5.294	5.058	0.237	4.473	1.0000
622	5.210	4.825	0.385	7.385	0.9876
626	4.792	4.762	0.030	0.631	1.0000
630	4.857	4.852	0.005	0.103	1.0000
632	4.531	4.714	-0.183	4.037	1.0000
633	4.978	4.786	0.192	3.849	1.0000
634	4.301	4.785	-0.484	11.253	0.7850
635	5.114	4.879	0.235	4.596	1.0000
639	4.857	4.761	0.097	1.990	1.0000
642	3.847	4.711	-0.865	22.482	0.4394
645	4.439	4.671	-0.232	5.229	1.0000
650	4.301	4.814	-0.513	11.926	0.7407
655	4.505	4.821	-0.316	7.015	1.0000
657	5.097	4.748	0.349	6.840	1.0000
658	5.137	4.858	0.278	5.420	1.0000
662	4.398	5.009	-0.611	13.884	0.6222
663	4.796	4.701	0.095	1.984	1.0000
664	5.079	4.842	0.237	4.673	1.0000
665	4.628	4.684	-0.056	1.211	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
669	4.740	4.779	-0.039	0.814	1.0000
670	4.892	4.790	0.102	2.086	1.0000
671	4.505	4.781	-0.276	6.131	1.0000
676	5.114	5.114	0.000	0.000	1.0000
678	5.097	4.874	0.223	4.372	1.0000
684	3.699	4.467	-0.768	20.759	0.4948
688	4.903	4.884	0.019	0.396	1.0000
689	4.857	4.898	-0.040	0.833	1.0000
690	4.860	4.899	-0.039	0.805	1.0000
692	4.929	4.835	0.094	1.908	1.0000
693	4.352	4.881	-0.529	12.158	0.7180
704	4.544	4.831	-0.286	6.305	1.0000
706	4.690	4.679	0.011	0.224	1.0000
707	4.146	4.857	-0.711	17.149	0.5344
712	4.857	4.960	-0.102	2.103	1.0000
713	4.842	4.921	-0.079	1.636	1.0000
715	4.748	4.795	-0.047	0.992	1.0000
719	5.041	5.025	0.017	0.333	1.0000
722	5.342	4.914	0.429	8.027	0.8860
724	5.097	4.920	0.177	3.472	1.0000
729	5.000	4.849	0.151	3.028	1.0000
733	5.225	4.902	0.324	6.196	1.0000
735	4.477	4.908	-0.431	9.627	0.8815
736	5.114	4.772	0.342	6.687	1.0000
738	4.968	5.045	-0.076	1.532	1.0000
739	4.845	5.064	-0.219	4.525	1.0000
740	4.623	4.908	-0.285	6.163	1.0000
743	5.358	5.128	0.230	4.291	1.0000
744	5.352	5.133	0.219	4.099	1.0000
747	4.591	4.863	-0.272	5.920	1.0000
749	4.778	5.003	-0.225	4.704	1.0000
751	5.175	4.802	0.372	7.196	1.0000
752	4.833	4.900	-0.068	1.397	1.0000
754	4.407	4.801	-0.395	8.960	0.9623
755	4.544	4.751	-0.207	4.553	1.0000
757	4.415	4.810	-0.395	8.952	0.9614
758	4.589	4.944	-0.355	7.734	1.0000
760	5.130	4.774	0.357	6.952	1.0000
761	4.875	4.429	0.446	9.152	0.8516
763	3.544	5.052	-1.508	42.559	0.2519
765	4.740	4.949	-0.209	4.400	1.0000
767	4.767	4.841	-0.073	1.541	1.0000
770	5.079	4.880	0.199	3.919	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
773	5.061	5.056	0.005	0.102	1.0000
782	5.090	4.945	0.145	2.839	1.0000
785	4.826	4.719	0.107	2.226	1.0000
786	4.477	4.691	-0.214	4.787	1.0000
787	4.892	4.805	0.087	1.788	1.0000
788	4.740	4.703	0.037	0.789	1.0000
795	5.301	5.000	0.301	5.672	1.0000
797	4.204	4.581	-0.377	8.964	1.0000
798	4.813	4.838	-0.025	0.521	1.0000
799	4.663	4.906	-0.243	5.219	1.0000
803	4.839	4.667	0.172	3.545	1.0000
805	5.070	4.782	0.288	5.684	1.0000
806	4.602	4.795	-0.192	4.183	1.0000
807	5.031	4.632	0.399	7.931	0.9522
809	3.862	4.558	-0.697	18.038	0.5455
811	4.903	4.765	0.138	2.822	1.0000
813	4.663	4.694	-0.031	0.675	1.0000
817	4.477	4.759	-0.282	6.291	1.0000
818	4.176	4.622	-0.446	10.683	0.8517
819	4.699	4.896	-0.197	4.191	1.0000
820	4.989	4.871	0.118	2.368	1.0000
821	5.097	5.009	0.088	1.722	1.0000
824	4.763	4.993	-0.230	4.824	1.0000
826	4.591	4.719	-0.128	2.778	1.0000
833	4.568	4.788	-0.220	4.814	1.0000
835	5.000	4.916	0.084	1.676	1.0000
841	4.826	4.963	-0.137	2.839	1.0000
845	4.991	4.754	0.237	4.751	1.0000
852	4.519	4.660	-0.142	3.137	1.0000
853	4.699	4.660	0.039	0.829	1.0000
855	5.204	4.888	0.316	6.067	1.0000
857	4.886	4.881	0.006	0.114	1.0000
859	4.752	4.917	-0.165	3.466	1.0000
861	4.929	4.961	-0.032	0.641	1.0000
864	4.844	4.884	-0.040	0.819	1.0000
868	4.681	4.963	-0.282	6.021	1.0000
870	4.732	4.888	-0.156	3.298	1.0000
871	5.204	4.867	0.337	6.471	1.0000
875	4.875	4.938	-0.063	1.286	1.0000
877	4.176	4.731	-0.554	13.277	0.6852
878	5.255	4.972	0.283	5.390	1.0000
881	4.176	4.468	-0.292	6.990	1.0000
883	5.362	5.059	0.303	5.643	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
884	4.949	5.099	-0.150	3.021	1.0000
885	4.964	4.965	-0.001	0.016	1.0000
887	5.312	4.733	0.579	10.896	0.6565
889	4.732	4.882	-0.150	3.170	1.0000
890	5.176	4.333	0.843	16.289	0.4506
895	3.954	4.682	-0.727	18.393	0.5224
898	4.699	4.786	-0.087	1.853	1.0000
902	4.342	4.740	-0.398	9.167	0.9545
903	5.204	5.056	0.148	2.851	1.0000
904	4.792	4.765	0.028	0.582	1.0000
906	4.929	4.944	-0.015	0.306	1.0000
908	4.519	4.752	-0.233	5.164	1.0000
909	5.051	4.922	0.129	2.549	1.0000
910	5.146	5.003	0.143	2.772	1.0000
912	5.322	4.975	0.348	6.533	1.0000
914	4.778	5.035	-0.257	5.385	1.0000
917	5.000	4.875	0.125	2.507	1.0000
918	4.804	4.641	0.164	3.411	1.0000
920	4.978	4.872	0.106	2.127	1.0000
921	5.161	4.925	0.236	4.575	1.0000
922	4.716	4.708	0.008	0.165	1.0000
923	5.000	4.847	0.153	3.057	1.0000
924	5.061	4.866	0.195	3.846	1.0000
926	4.914	4.881	0.033	0.672	1.0000
928	4.792	4.982	-0.190	3.960	1.0000
929	5.270	5.141	0.128	2.432	1.0000
930	5.431	4.966	0.466	8.576	0.8157
931	4.301	4.763	-0.462	10.732	0.8231
932	4.845	4.974	-0.128	2.651	1.0000
935	5.267	4.918	0.350	6.639	1.0000
936	5.431	5.162	0.269	4.958	1.0000
939	4.778	4.843	-0.065	1.361	1.0000
941	4.903	4.992	-0.088	1.805	1.0000
951	4.748	4.767	-0.019	0.401	1.0000
952	4.826	4.838	-0.012	0.243	1.0000
953	4.826	4.762	0.064	1.323	1.0000
954	5.204	4.765	0.439	8.435	0.8656
956	5.079	5.037	0.042	0.828	1.0000
957	4.954	4.851	0.103	2.080	1.0000
958	4.892	4.753	0.139	2.842	1.0000
959	4.342	4.603	-0.261	6.005	1.0000
960	5.114	4.924	0.190	3.711	1.0000
961	4.875	4.788	0.087	1.781	1.0000

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
965	4.380	4.631	-0.251	5.720	1.0000
966	4.929	4.926	0.004	0.079	1.0000
973	4.477	5.047	-0.570	12.737	0.6663
974	4.895	4.982	-0.087	1.784	1.0000
975	5.061	5.126	-0.065	1.286	1.0000
976	4.741	4.888	-0.146	3.090	1.0000
978	4.792	4.744	0.048	1.000	1.0000
981	5.574	5.150	0.424	7.609	0.8959
984	4.352	4.879	-0.527	12.104	0.7212
985	3.602	4.945	-1.343	37.280	0.2829
986	5.170	4.902	0.268	5.187	1.0000
992	4.929	4.840	0.089	1.810	1.0000
996	4.875	5.033	-0.158	3.238	1.0000
998	4.978	5.011	-0.033	0.662	1.0000
1002	4.863	4.855	0.009	0.181	1.0000
1003	5.031	4.846	0.185	3.682	1.0000
1006	4.398	4.751	-0.353	8.022	1.0000
1007	3.903	4.950	-1.047	26.816	0.3630
1011	4.748	4.975	-0.227	4.779	1.0000
1014	5.398	5.059	0.339	6.285	1.0000
1018	5.243	5.077	0.166	3.164	1.0000
1019	5.000	4.948	0.052	1.037	1.0000
1020	4.978	5.134	-0.156	3.143	1.0000
1024	5.398	5.229	0.169	3.127	1.0000
1029	5.176	5.181	-0.005	0.095	1.0000
1030	5.000	4.802	0.198	3.969	1.0000
1033	4.653	5.061	-0.408	8.766	0.9314
1039	4.875	4.926	-0.051	1.051	1.0000
1041	5.204	4.985	0.219	4.215	1.0000
1042	5.322	5.058	0.264	4.956	1.0000
1045	4.653	5.061	-0.408	8.759	0.9322
1047	4.544	4.971	-0.427	9.398	0.8897
1048	4.954	5.086	-0.132	2.663	1.0000
1049	4.740	4.992	-0.251	5.304	1.0000
1050	4.919	4.867	0.052	1.052	1.0000
1052	5.243	4.967	0.276	5.272	1.0000
1055	4.929	4.913	0.016	0.333	1.0000
1059	5.491	5.223	0.268	4.879	1.0000
1063	4.929	5.159	-0.229	4.649	1.0000
1064	5.332	5.145	0.187	3.515	1.0000
1065	5.352	5.223	0.129	2.407	1.0000
1066	4.978	5.094	-0.117	2.343	1.0000
1067	4.813	5.030	-0.217	4.507	1.0000

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1068	4.602	4.589	0.014	0.294	1.0000
1070	4.929	4.784	0.146	2.956	1.0000
1071	5.161	4.925	0.237	4.589	1.0000
1073	5.358	5.193	0.164	3.070	1.0000
1074	5.255	5.073	0.182	3.465	1.0000
1078	5.290	4.986	0.304	5.739	1.0000
1079	5.255	5.148	0.107	2.042	1.0000
1087	4.903	4.778	0.125	2.551	1.0000
1089	4.978	4.962	0.016	0.312	1.0000
1090	4.778	4.937	-0.158	3.317	1.0000
1091	5.212	5.154	0.058	1.110	1.0000
1092	5.290	5.199	0.091	1.726	1.0000
1094	5.279	5.133	0.145	2.756	1.0000
1096	4.987	4.987	0.000	0.005	1.0000
1101	5.401	5.236	0.165	3.062	1.0000
1103	5.161	5.081	0.080	1.553	1.0000
1106	4.477	4.618	-0.141	3.150	1.0000
1110	5.114	5.032	0.082	1.611	1.0000
1111	4.602	5.035	-0.433	9.416	0.8768
1112	5.000	4.906	0.094	1.884	1.0000
1114	5.217	5.130	0.087	1.667	1.0000
1115	4.978	5.117	-0.139	2.794	1.0000
1118	5.389	5.045	0.344	6.385	1.0000
1119	4.903	5.093	-0.190	3.875	1.0000
1121	5.255	4.981	0.274	5.222	1.0000
1123	5.588	5.320	0.269	4.808	1.0000
1124	5.190	4.849	0.341	6.578	1.0000
1126	4.740	4.981	-0.241	5.086	1.0000
1127	4.875	4.940	-0.065	1.331	1.0000
1128	5.041	5.192	-0.151	2.987	1.0000
1129	4.699	5.077	-0.378	8.045	1.0000
1130	5.248	4.968	0.280	5.341	1.0000
1131	5.086	5.105	-0.018	0.360	1.0000
1133	4.949	5.106	-0.157	3.174	1.0000
1135	5.130	5.208	-0.077	1.505	1.0000
1139	5.447	5.016	0.431	7.920	0.8807
1141	4.845	4.766	0.079	1.640	1.0000
1144	4.982	5.021	-0.039	0.784	1.0000
1147	5.362	5.208	0.154	2.871	1.0000
1148	5.720	5.156	0.564	9.868	0.6731
1150	4.544	4.770	-0.226	4.972	1.0000
1151	4.845	4.924	-0.079	1.626	1.0000
1154	4.477	5.008	-0.531	11.865	0.7152

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1157	4.934	5.133	-0.199	4.026	1.0000
1159	5.114	5.185	-0.071	1.380	1.0000
1163	4.845	4.997	-0.152	3.132	1.0000
1165	4.568	5.033	-0.465	10.185	0.8166
1168	5.114	4.996	0.118	2.308	1.0000
1169	5.114	5.085	0.029	0.558	1.0000
1172	5.613	5.255	0.358	6.379	1.0000
1174	4.748	5.082	-0.334	7.027	1.0000
1176	5.204	5.153	0.051	0.980	1.0000
1179	4.740	5.135	-0.394	8.316	0.9638
1181	5.371	5.100	0.271	5.053	1.0000
1183	5.190	5.070	0.120	2.311	1.0000
1185	5.491	5.218	0.273	4.972	1.0000
1186	5.217	5.121	0.096	1.841	1.0000
1187	5.161	5.065	0.097	1.870	1.0000
1190	4.740	4.575	0.165	3.485	1.0000
1191	4.531	4.898	-0.366	8.084	1.0000
1192	4.602	5.025	-0.423	9.200	0.8974
1193	4.848	5.280	-0.432	8.913	0.8792
1194	4.903	4.995	-0.092	1.867	1.0000
1195	5.238	4.942	0.296	5.647	1.0000
1202	5.312	5.347	-0.035	0.657	1.0000
1203	4.978	5.135	-0.157	3.156	1.0000
1204	4.097	4.462	-0.365	8.902	1.0000
1205	5.439	4.825	0.614	11.293	0.6185
1206	4.845	4.866	-0.021	0.423	1.0000
1207	4.462	4.854	-0.391	8.766	0.9713
1212	4.653	4.719	-0.065	1.405	1.0000
1215	4.813	5.149	-0.336	6.976	1.0000
1216	5.371	5.078	0.293	5.454	1.0000
1217	5.061	4.800	0.260	5.142	1.0000
1219	5.362	5.115	0.247	4.608	1.0000
1221	4.903	5.048	-0.145	2.956	1.0000
1225	5.011	5.072	-0.061	1.220	1.0000
1226	5.602	5.014	0.588	10.499	0.6460
1227	5.190	5.128	0.062	1.197	1.0000
1228	5.204	4.990	0.214	4.118	1.0000
1230	4.301	4.806	-0.505	11.730	0.7531
1234	5.255	5.109	0.146	2.787	1.0000
1235	5.279	5.270	0.009	0.162	1.0000
1236	5.407	5.146	0.261	4.818	1.0000
1237	5.000	4.972	0.028	0.557	1.0000
1240	5.322	5.331	-0.009	0.173	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1241	5.505	5.226	0.280	5.078	1.0000
1242	5.512	5.226	0.286	5.194	1.0000
1243	4.857	5.274	-0.416	8.570	0.9127
1244	5.000	5.244	-0.244	4.880	1.0000
1247	4.544	4.854	-0.310	6.829	1.0000
1248	4.892	4.975	-0.083	1.695	1.0000
1250	5.362	4.993	0.369	6.886	1.0000
1254	5.250	5.088	0.162	3.088	1.0000
1257	4.978	5.136	-0.158	3.179	1.0000
1269	5.061	5.060	0.000	0.009	1.0000
1270	5.352	5.107	0.245	4.575	1.0000
1271	5.407	5.041	0.366	6.761	1.0000
1272	4.477	5.047	-0.570	12.724	0.6670
1276	4.398	4.645	-0.247	5.618	1.0000
1277	4.919	4.881	0.038	0.768	1.0000
1280	5.021	4.824	0.197	3.922	1.0000
1281	5.296	5.105	0.191	3.603	1.0000
1284	4.398	4.660	-0.262	5.957	1.0000
1285	4.602	4.802	-0.200	4.342	1.0000
1287	4.301	5.138	-0.837	19.470	0.4537
1290	5.396	5.213	0.183	3.390	1.0000
1292	5.491	5.159	0.332	6.053	1.0000
1302	5.238	5.227	0.011	0.210	1.0000
1303	5.161	5.148	0.013	0.261	1.0000
1305	4.740	4.959	-0.219	4.616	1.0000
1306	5.021	5.077	-0.056	1.106	1.0000
1308	4.954	5.067	-0.112	2.270	1.0000
1310	4.778	5.096	-0.318	6.663	1.0000
1311	5.097	5.059	0.038	0.744	1.0000
1313	5.097	4.905	0.192	3.772	1.0000
1315	5.079	5.198	-0.119	2.346	1.0000
1316	5.276	5.069	0.208	3.939	1.0000
1317	5.130	5.116	0.014	0.282	1.0000
1318	5.332	5.187	0.145	2.721	1.0000
1321	5.407	5.070	0.337	6.234	1.0000
1324	5.183	5.014	0.169	3.260	1.0000
1325	5.389	5.211	0.178	3.307	1.0000
1326	4.996	4.695	0.300	6.014	1.0000
1329	4.000	4.557	-0.557	13.924	0.6822
1332	4.342	5.179	-0.837	19.270	0.4541
1334	5.000	5.142	-0.142	2.833	1.0000
1336	5.161	5.124	0.037	0.716	1.0000
1338	4.623	4.818	-0.195	4.211	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1340	4.431	5.081	-0.649	14.655	0.5850
1342	5.362	5.378	-0.016	0.305	1.0000
1346	4.929	4.973	-0.044	0.889	1.0000
1351	4.778	4.909	-0.131	2.746	1.0000
1352	5.255	5.104	0.152	2.886	1.0000
1355	4.778	5.001	-0.223	4.667	1.0000
1357	4.740	5.009	-0.269	5.667	1.0000
1359	5.283	5.196	0.087	1.650	1.0000
1360	4.989	5.084	-0.095	1.909	1.0000
1361	4.699	5.069	-0.370	7.866	1.0000
1362	5.431	5.229	0.203	3.729	1.0000
1363	4.699	4.892	-0.193	4.112	1.0000
1365	5.190	5.166	0.024	0.460	1.0000
1367	5.283	4.976	0.307	5.812	1.0000
1374	5.146	4.946	0.200	3.883	1.0000
1377	5.465	5.312	0.154	2.813	1.0000
1380	5.176	4.964	0.213	4.106	1.0000
1382	5.512	5.159	0.353	6.401	1.0000
1383	5.233	5.220	0.013	0.252	1.0000
1385	5.182	5.215	-0.033	0.634	1.0000
1386	5.114	5.092	0.022	0.430	1.0000
1387	5.176	5.034	0.142	2.743	1.0000
1388	4.944	4.961	-0.017	0.344	1.0000
1389	4.544	4.915	-0.371	8.157	1.0000
1395	5.176	5.061	0.115	2.224	1.0000
1396	5.362	5.351	0.011	0.208	1.0000
1400	5.121	5.339	-0.218	4.261	1.0000
1405	5.243	4.956	0.287	5.472	1.0000
1406	5.398	4.955	0.443	8.211	0.8572
1407	5.301	5.212	0.089	1.687	1.0000
1408	5.249	5.140	0.110	2.088	1.0000
1411	5.371	5.164	0.207	3.851	1.0000
1413	4.799	4.823	-0.023	0.487	1.0000
1414	5.114	5.025	0.089	1.739	1.0000
1416	4.602	5.053	-0.451	9.800	0.8425
1418	5.041	4.891	0.150	2.980	1.0000
1419	5.146	5.395	-0.249	4.832	1.0000
1426	5.000	5.049	-0.049	0.985	1.0000
1427	4.114	4.603	-0.489	11.892	0.7766
1430	5.296	5.089	0.207	3.906	1.0000
1431	4.278	4.663	-0.385	9.010	0.9858
1433	4.991	5.401	-0.409	8.201	0.9283
1439	4.778	5.052	-0.274	5.734	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1440	4.903	5.066	-0.162	3.313	1.0000
1441	4.602	4.677	-0.075	1.628	1.0000
1442	5.152	5.142	0.010	0.193	1.0000
1444	5.204	5.172	0.032	0.617	1.0000
1446	5.498	5.397	0.102	1.846	1.0000
1448	5.290	5.156	0.134	2.525	1.0000
1451	5.079	5.073	0.006	0.121	1.0000
1452	4.964	4.996	-0.032	0.649	1.0000
1455	4.623	5.123	-0.500	10.814	0.7600
1457	4.903	4.934	-0.031	0.623	1.0000
1458	4.929	4.928	0.002	0.031	1.0000
1461	5.204	5.143	0.061	1.167	1.0000
1469	5.041	5.167	-0.126	2.500	1.0000
1470	5.267	5.235	0.032	0.601	1.0000
1472	5.763	5.255	0.508	8.814	0.7480
1473	4.875	5.107	-0.232	4.752	1.0000
1477	5.097	5.012	0.084	1.657	1.0000
1479	5.230	5.015	0.215	4.116	1.0000
1480	4.957	4.959	-0.002	0.050	1.0000
1483	4.892	5.033	-0.140	2.872	1.0000
1485	5.217	5.077	0.140	2.692	1.0000
1487	5.061	4.990	0.071	1.403	1.0000
1489	5.491	5.085	0.407	7.407	0.9341
1490	5.380	4.973	0.408	7.574	0.9324
1491	4.845	4.855	-0.010	0.210	1.0000
1496	4.954	4.818	0.136	2.744	1.0000
1498	5.161	5.227	-0.066	1.279	1.0000
1500	4.602	5.021	-0.419	9.111	0.9062
1502	5.000	5.139	-0.139	2.788	1.0000
1503	5.173	5.367	-0.194	3.754	1.0000
1504	5.267	5.106	0.161	3.061	1.0000
1505	5.519	5.004	0.514	9.320	0.7387
1507	5.498	5.306	0.192	3.493	1.0000
1512	5.884	5.080	0.804	13.667	0.4725
1514	4.845	4.937	-0.092	1.906	1.0000
1516	4.978	5.105	-0.127	2.560	1.0000
1517	5.176	4.995	0.181	3.500	1.0000
1518	5.124	5.393	-0.269	5.256	1.0000
1519	5.146	5.065	0.081	1.582	1.0000
1520	4.602	5.346	-0.744	16.173	0.5105
1522	5.041	4.978	0.063	1.255	1.0000
1528	5.398	5.218	0.180	3.341	1.0000
1529	4.869	5.105	-0.236	4.839	1.0000

Robust Multiple Regression Report

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Dependent Log_10_Sale_Price

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1530	5.279	4.897	0.382	7.236	0.9947
1534	4.991	5.074	-0.082	1.652	1.0000
1539	5.230	5.119	0.112	2.138	1.0000
1540	5.204	5.183	0.021	0.403	1.0000
1541	5.176	5.427	-0.251	4.842	1.0000
1542	5.267	5.244	0.023	0.432	1.0000
1546	5.407	4.840	0.566	10.478	0.6707
1547	4.699	5.001	-0.302	6.432	1.0000
1548	5.677	5.382	0.295	5.197	1.0000
1551	5.477	5.256	0.221	4.029	1.0000
1552	5.114	5.159	-0.045	0.878	1.0000
1555	4.653	5.087	-0.434	9.319	0.8762
1556	4.778	5.210	-0.432	9.047	0.8789
1560	5.279	5.220	0.059	1.120	1.0000
1563	4.863	4.981	-0.118	2.426	1.0000
1565	5.000	5.249	-0.249	4.972	1.0000
1571	5.322	5.242	0.080	1.508	1.0000
1574	4.602	5.099	-0.497	10.805	0.7641
1578	5.243	5.062	0.181	3.458	1.0000
1579	5.274	4.974	0.301	5.699	1.0000
1580	4.903	4.954	-0.051	1.032	1.0000
1582	4.477	5.015	-0.538	12.012	0.7065
1585	4.886	5.412	-0.526	10.763	0.7224
1587	4.954	4.819	0.136	2.738	1.0000
1588	5.470	5.087	0.383	7.000	0.9923
1591	4.658	4.793	-0.135	2.892	1.0000
1592	4.702	5.180	-0.478	10.165	0.7949
1593	4.845	5.138	-0.293	6.038	1.0000
1594	5.176	5.194	-0.018	0.349	1.0000
1595	4.681	4.959	-0.278	5.937	1.0000
1597	5.000	5.021	-0.021	0.417	1.0000
1601	5.322	5.022	0.301	5.648	1.0000
1608	5.312	4.986	0.326	6.137	1.0000
1610	5.255	5.123	0.132	2.520	1.0000
1611	5.544	5.074	0.470	8.482	0.8080
1613	4.903	4.989	-0.086	1.745	1.0000
1615	4.602	4.919	-0.317	6.887	1.0000
1618	5.525	5.149	0.376	6.811	1.0000
1620	5.027	5.219	-0.191	3.808	1.0000
1621	5.061	5.064	-0.003	0.062	1.0000
1622	5.262	5.098	0.165	3.134	1.0000
1623	5.112	4.752	0.361	7.054	1.0000
1626	4.813	4.875	-0.062	1.290	1.0000

Robust Multiple Regression Report

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Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1628	5.064	5.233	-0.169	3.330	1.0000
1629	5.431	4.840	0.591	10.887	0.6425
1630	5.525	5.365	0.160	2.888	1.0000
1632	5.380	5.385	-0.005	0.094	1.0000
1633	4.740	5.182	-0.442	9.323	0.8597
1634	5.243	5.324	-0.081	1.537	1.0000
1636	4.978	5.056	-0.078	1.568	1.0000
1638	5.413	5.154	0.259	4.787	1.0000
1640	5.398	4.989	0.409	7.579	0.9287
1641	5.079	5.204	-0.125	2.463	1.0000
1642	4.653	5.126	-0.473	10.161	0.8036
1645	4.978	4.931	0.046	0.933	1.0000
1648	5.134	5.167	-0.033	0.645	1.0000
1653	4.681	5.154	-0.473	10.101	0.8035
1654	4.875	5.001	-0.126	2.585	1.0000
1655	5.585	5.273	0.312	5.587	1.0000
1656	5.204	5.312	-0.108	2.073	1.0000
1658	5.799	5.387	0.412	7.104	0.9223
1660	4.903	4.860	0.043	0.887	1.0000
1661	5.170	5.232	-0.061	1.189	1.0000
1662	5.279	5.199	0.079	1.506	1.0000
1663	4.717	5.018	-0.301	6.377	1.0000
1665	4.845	5.274	-0.429	8.849	0.8862
1666	5.301	5.093	0.208	3.918	1.0000
1667	5.470	5.127	0.343	6.275	1.0000
1668	5.488	5.441	0.047	0.862	1.0000
1674	5.460	5.231	0.229	4.191	1.0000
1675	5.498	5.292	0.206	3.750	1.0000
1679	5.217	5.045	0.173	3.308	1.0000
1683	5.197	5.101	0.096	1.845	1.0000
1685	4.544	5.104	-0.560	12.331	0.6781
1686	5.332	5.386	-0.053	0.997	1.0000
1687	5.342	5.297	0.046	0.852	1.0000
1689	5.000	5.151	-0.151	3.020	1.0000
1692	5.512	5.178	0.334	6.051	1.0000
1693	4.568	4.679	-0.111	2.428	1.0000
1694	4.973	5.018	-0.045	0.895	1.0000
1696	4.699	4.919	-0.220	4.679	1.0000
1697	5.267	5.235	0.032	0.610	1.0000
1699	5.362	5.091	0.270	5.041	1.0000
1702	4.778	5.038	-0.259	5.430	1.0000
1703	4.929	4.642	0.287	5.831	1.0000
1704	4.176	4.981	-0.805	19.269	0.4722

Robust Multiple Regression Report

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

Dependent Log_10_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!

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1708	4.954	5.021	-0.066	1.340	1.0000
1709	5.455	4.980	0.475	8.703	0.8003
1713	4.690	4.987	-0.297	6.323	1.0000
1715	4.628	5.047	-0.418	9.039	0.9082
1717	5.358	5.208	0.150	2.799	1.0000
1719	4.978	5.177	-0.199	4.001	1.0000
1720	5.362	5.129	0.233	4.340	1.0000
1722	4.792	5.062	-0.270	5.628	1.0000
1725	4.544	5.046	-0.502	11.050	0.7567
1727	5.000	5.197	-0.197	3.940	1.0000
1732	5.415	5.169	0.246	4.539	1.0000
1734	5.021	5.092	-0.070	1.401	1.0000
1735	5.061	5.078	-0.017	0.339	1.0000
1738	5.161	4.920	0.241	4.670	1.0000
1740	5.000	5.083	-0.083	1.668	1.0000
1743	4.903	5.007	-0.104	2.129	1.0000
1745	4.699	4.949	-0.250	5.310	1.0000
1747	5.130	5.072	0.058	1.131	1.0000
1749	4.653	5.026	-0.373	8.018	1.0000
1750	5.415	5.260	0.155	2.858	1.0000
1751	4.903	5.290	-0.387	7.892	0.9818
1752	5.312	5.210	0.101	1.910	1.0000
1754	5.458	5.256	0.202	3.700	1.0000
1757	5.130	5.258	-0.128	2.495	1.0000
1758	5.079	5.182	-0.102	2.018	1.0000
1759	5.431	4.943	0.488	8.987	0.7784
1762	4.477	5.030	-0.553	12.359	0.6866
1764	5.029	4.685	0.344	6.840	1.0000
1773	5.371	5.253	0.118	2.204	1.0000
1777	5.415	5.209	0.206	3.805	1.0000
1780	4.799	4.896	-0.096	2.010	1.0000
1781	4.740	4.956	-0.216	4.548	1.0000
1785	5.176	5.153	0.023	0.437	1.0000
1786	5.380	5.166	0.214	3.981	1.0000
1787	5.079	5.017	0.062	1.224	1.0000
1790	4.695	5.081	-0.386	8.228	0.9836
1793	5.230	4.851	0.380	7.264	1.0000
1795	4.866	4.679	0.187	3.848	1.0000
1798	4.929	5.052	-0.122	2.480	1.0000
1800	4.771	5.089	-0.318	6.665	1.0000
1801	5.451	5.043	0.408	7.477	0.9323
1802	4.699	4.621	0.078	1.668	1.0000
1805	5.389	5.251	0.138	2.561	1.0000

Robust Multiple Regression Report

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

Dependent Log_10_Sale_Price

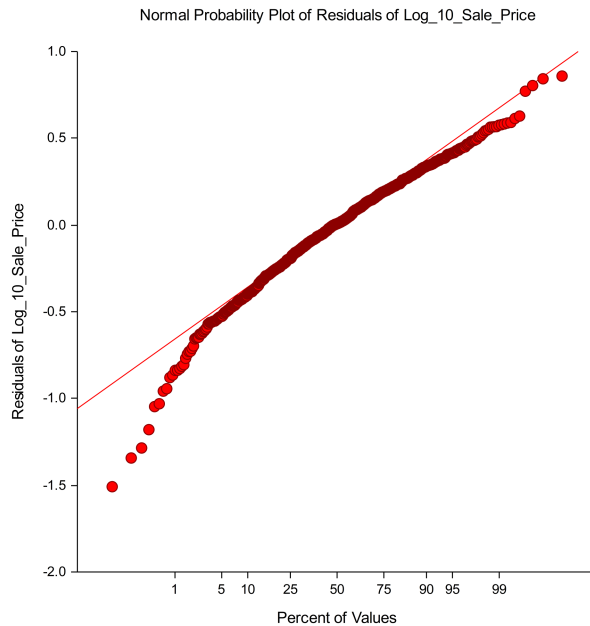
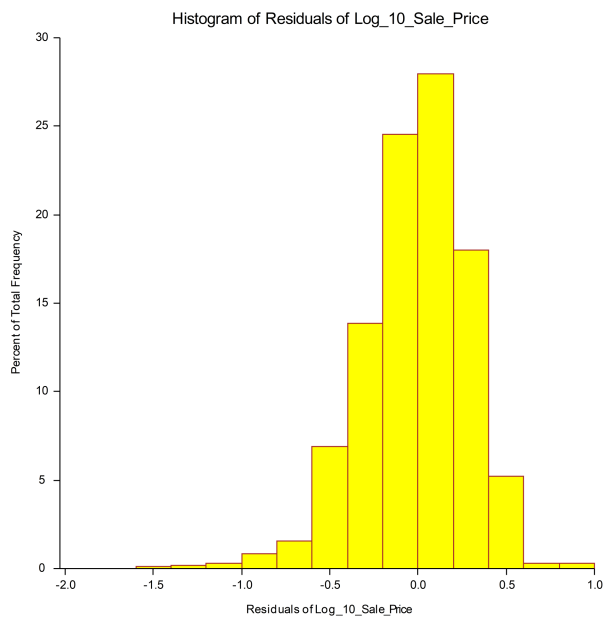
Warning: At least one value was reset to 0.0 because it was less than the NCSS machine zero of 1E-20. To change the machine zero, choose File > System Options (or Report Options) from the menu and select the Constants tab.

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

Robust Residuals and Weights (Continued)

Row	Actual Log_10_Sale_Price	Predicted Log_10_Sale_Price	Residual	Absolute Percent Error	Robust Weight
1806	5.243	5.222	0.021	0.403	1.0000
1808	5.699	5.071	0.628	11.020	0.6050
1809	5.505	4.995	0.510	9.266	0.7449
1810	5.332	5.192	0.140	2.628	1.0000
1812	5.087	4.862	0.225	4.427	1.0000
1813	5.017	5.187	-0.170	3.392	1.0000
1814	5.061	5.072	-0.011	0.217	1.0000
1815	4.927	5.094	-0.167	3.397	1.0000

Distributional Plots of Residuals



Robust Multiple Regression Report

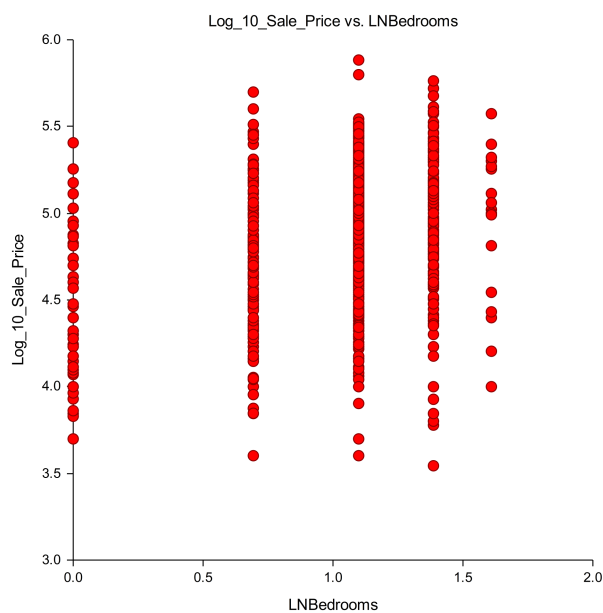
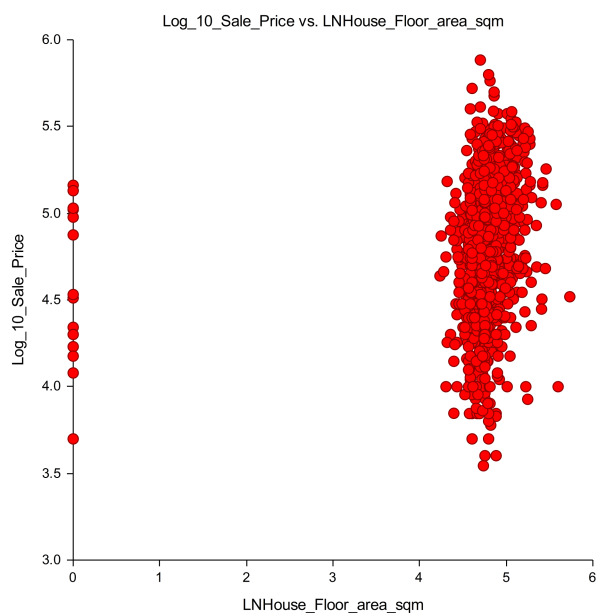
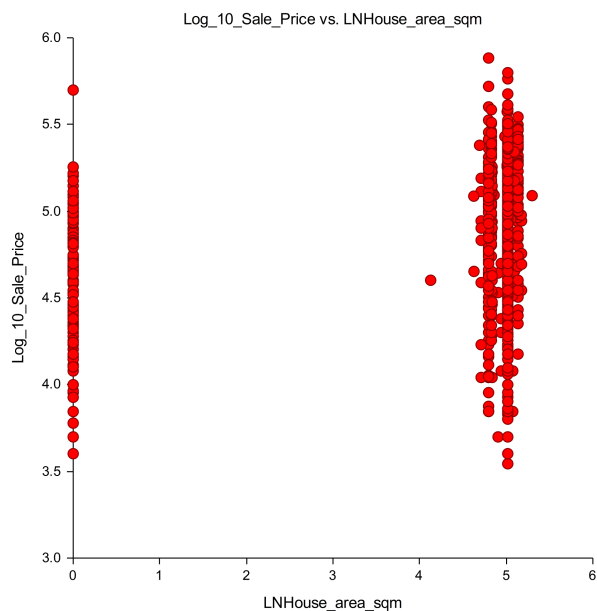
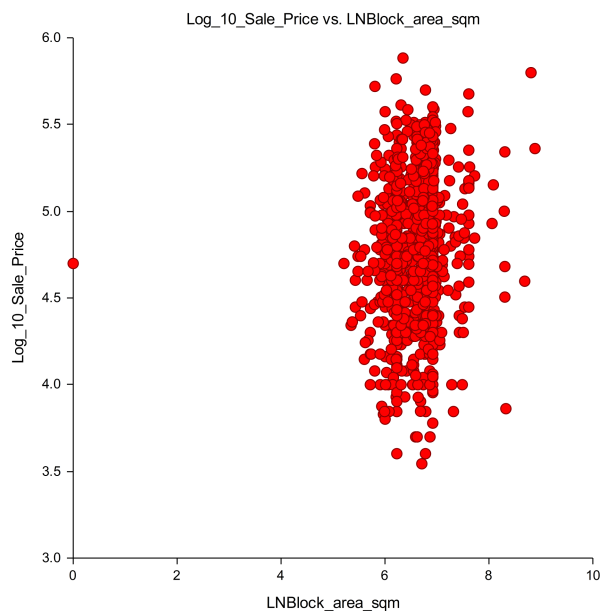
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log_10_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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Y vs X Plots



Robust Multiple Regression Report

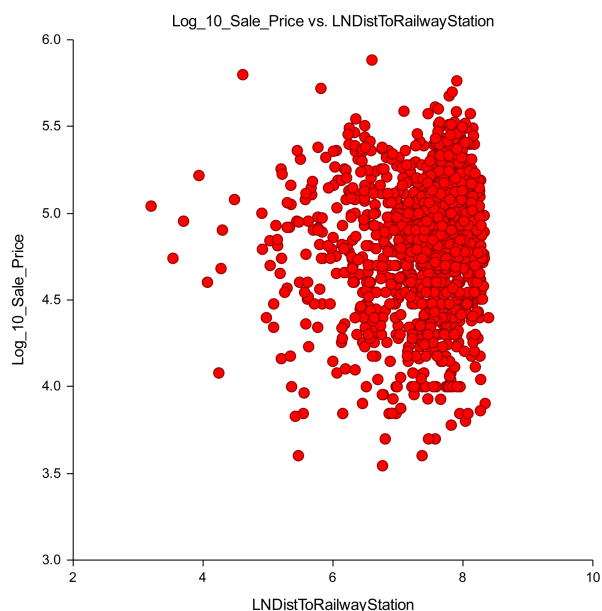
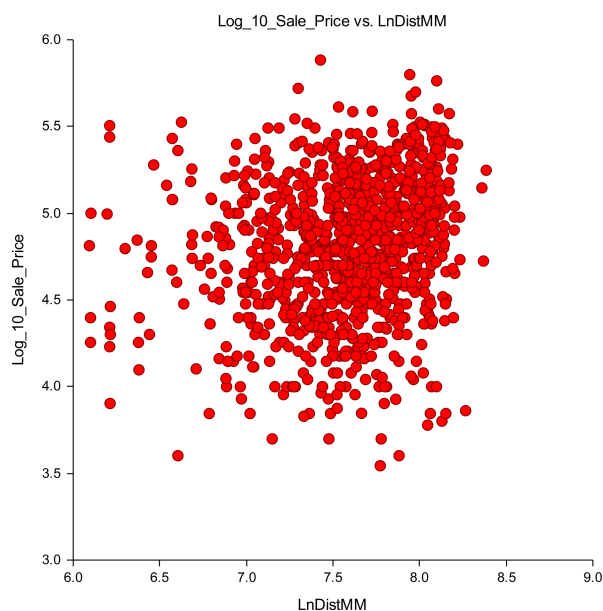
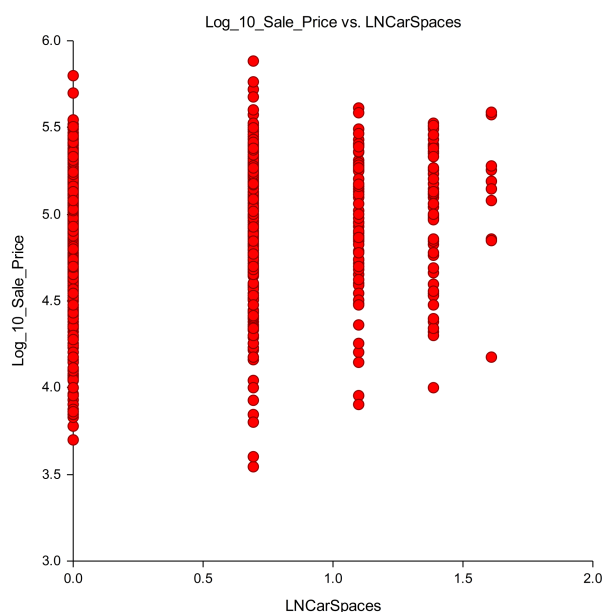
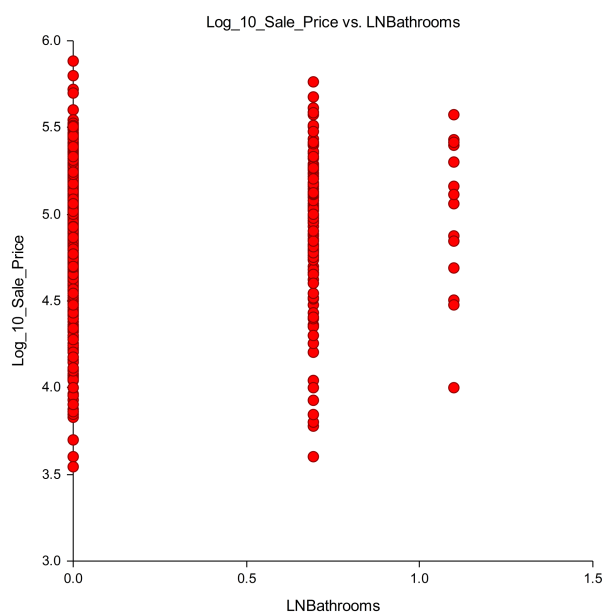
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Dependent Log_10_Sale_Price

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!

Y vs X Plots (Continued)



Robust Multiple Regression Report

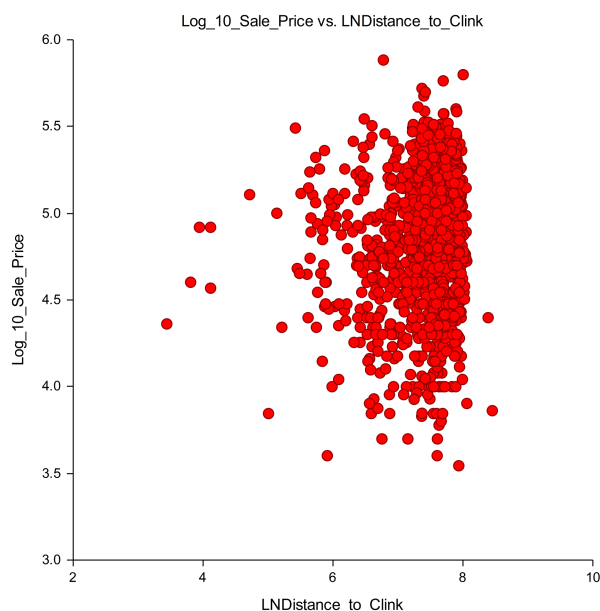
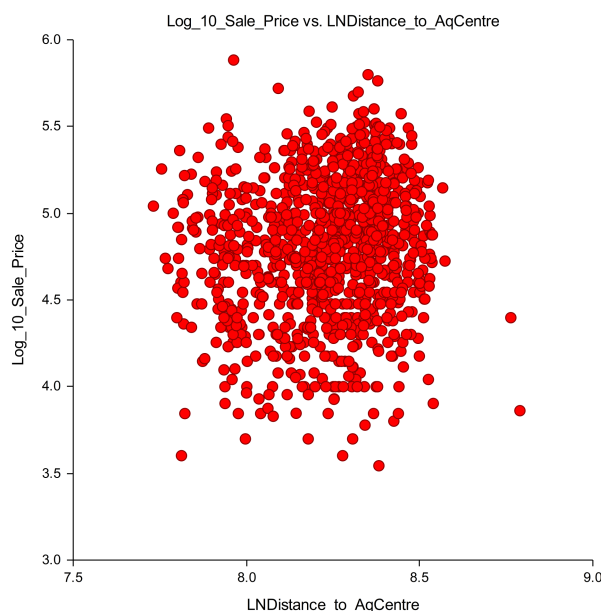
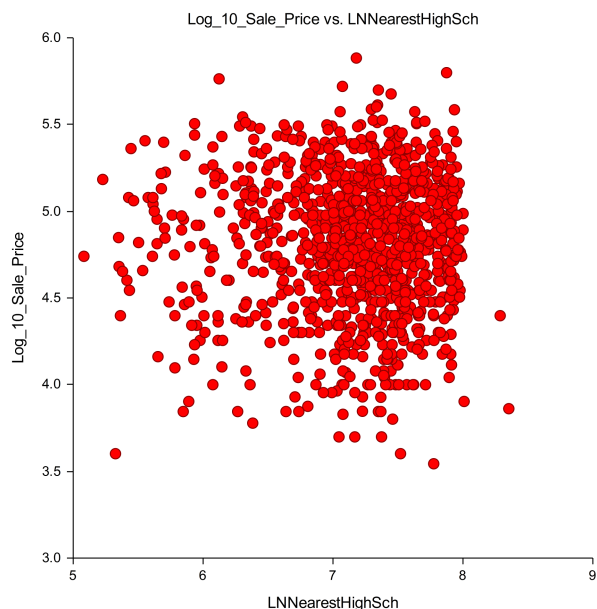
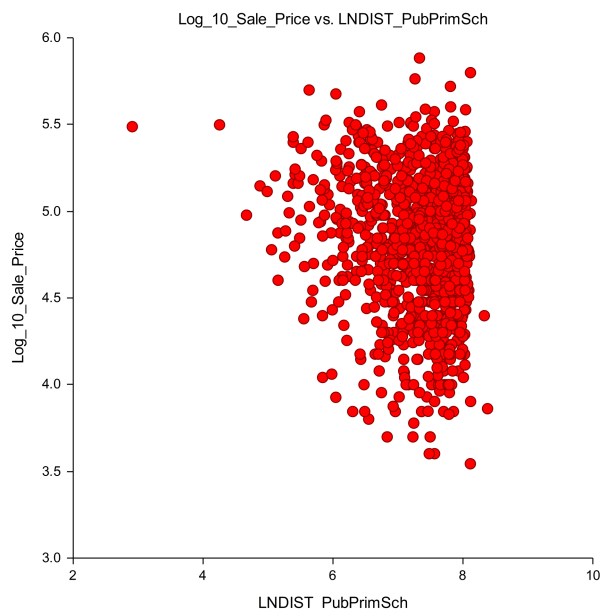
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Dependent Log_10_Sale_Price

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!

Y vs X Plots (Continued)



Robust Multiple Regression Report

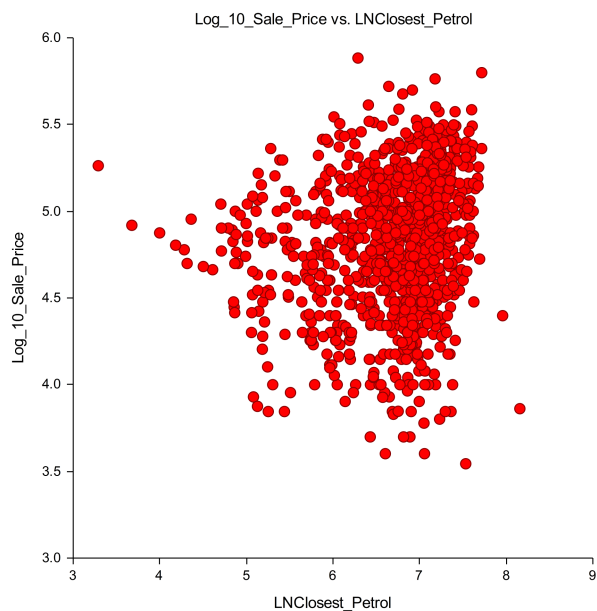
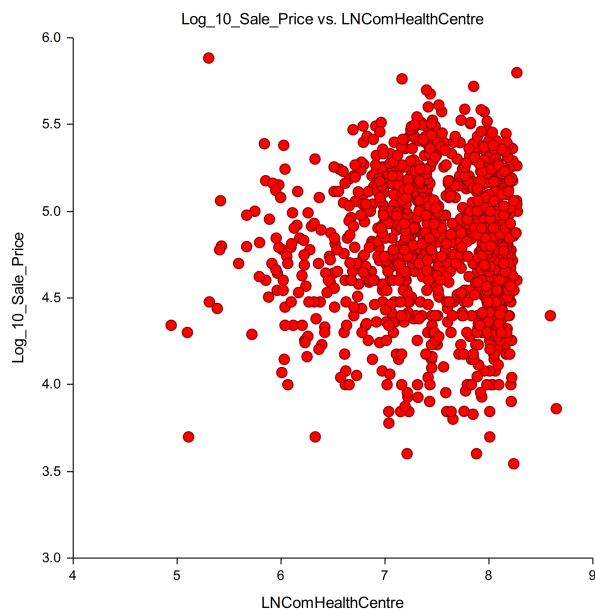
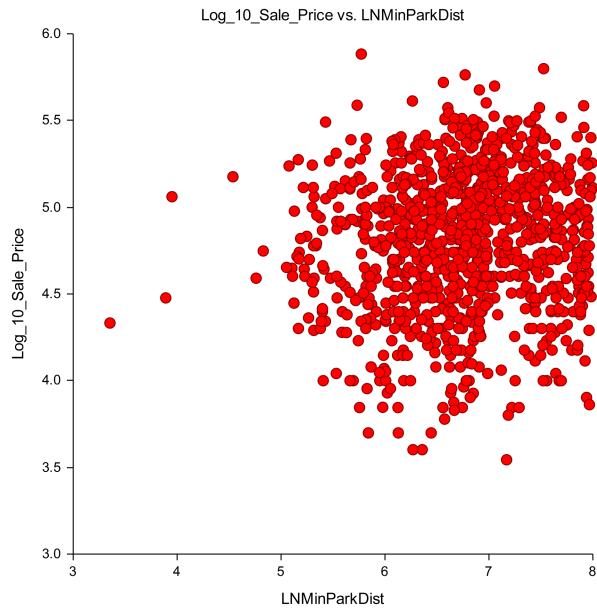
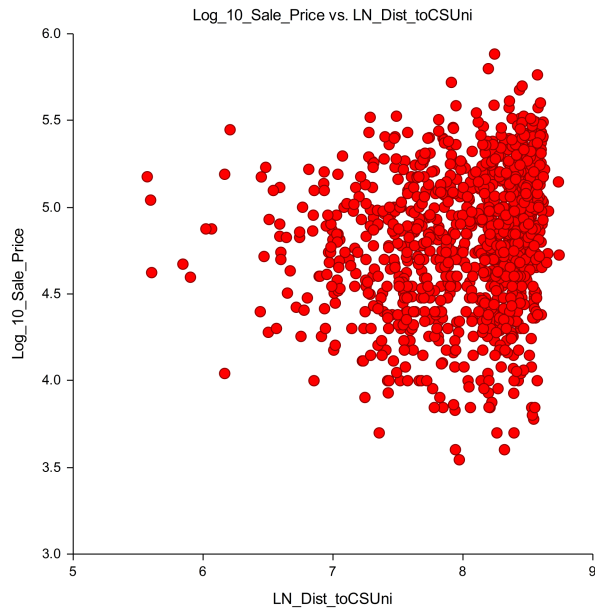
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Dependent Log_10_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

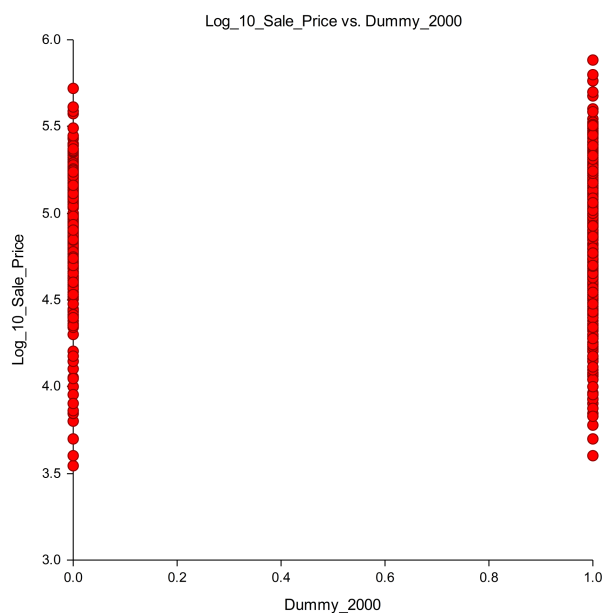
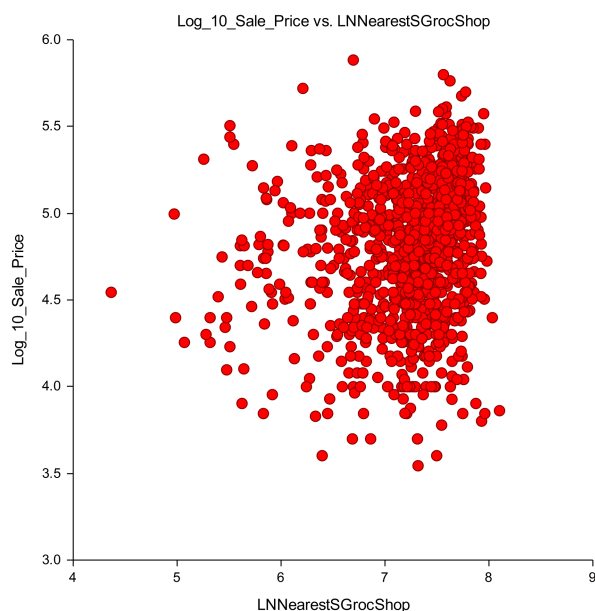
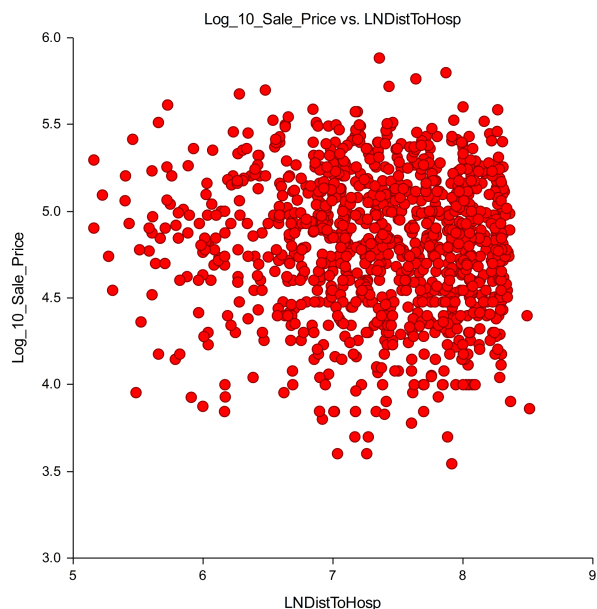
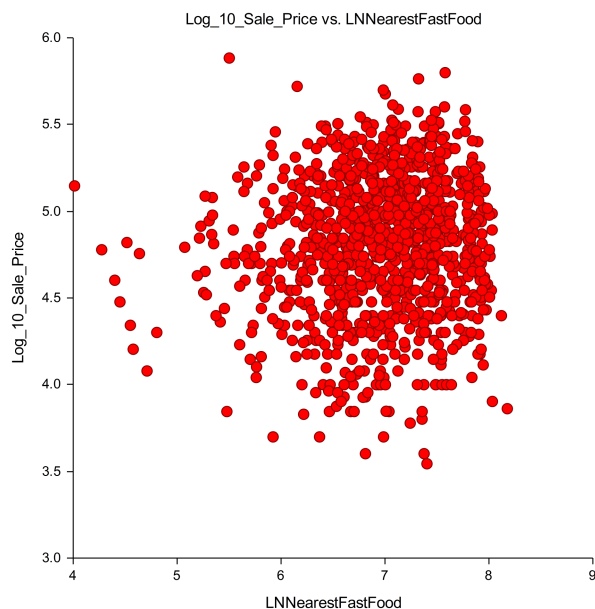
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Dependent Log_10_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

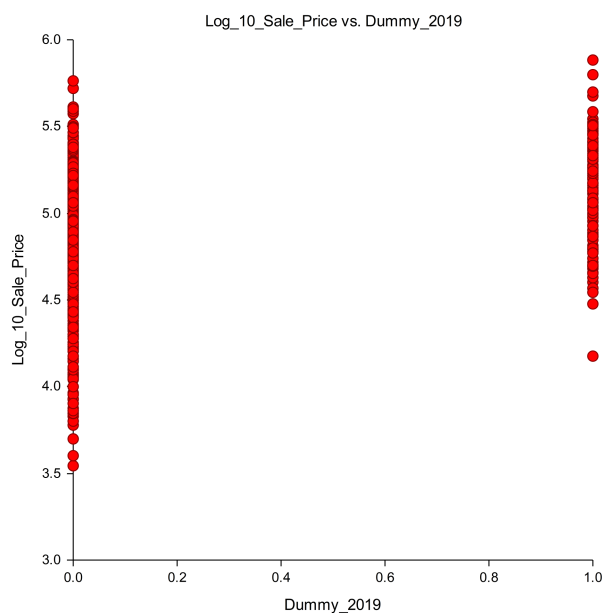
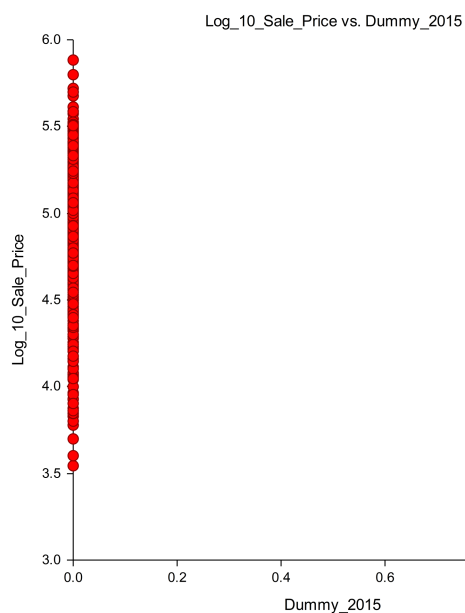
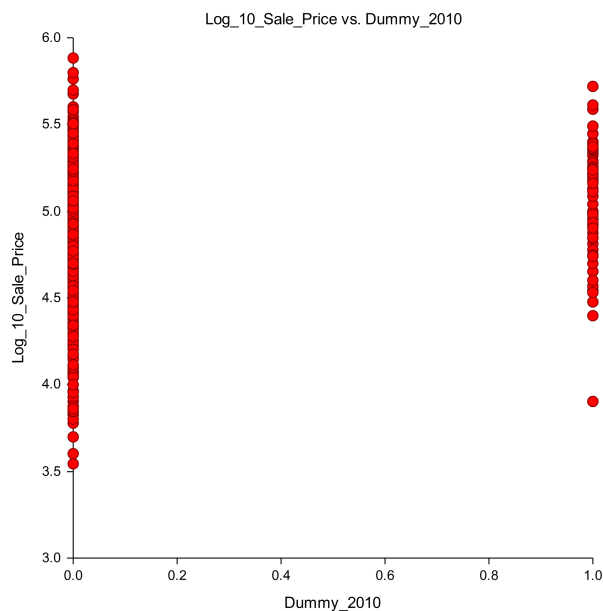
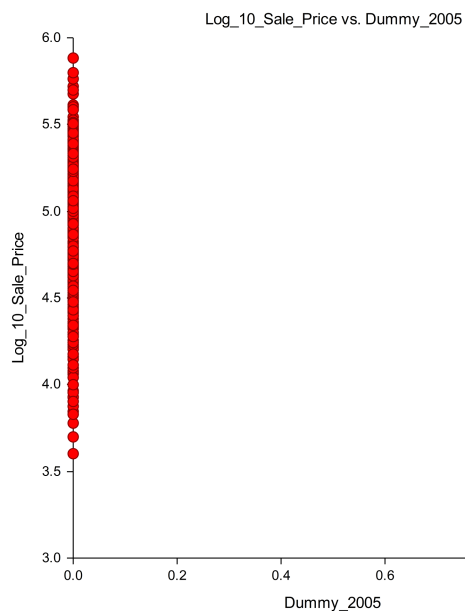
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log_10_Sale_Price

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Y vs X Plots (Continued)



Robust Multiple Regression Report

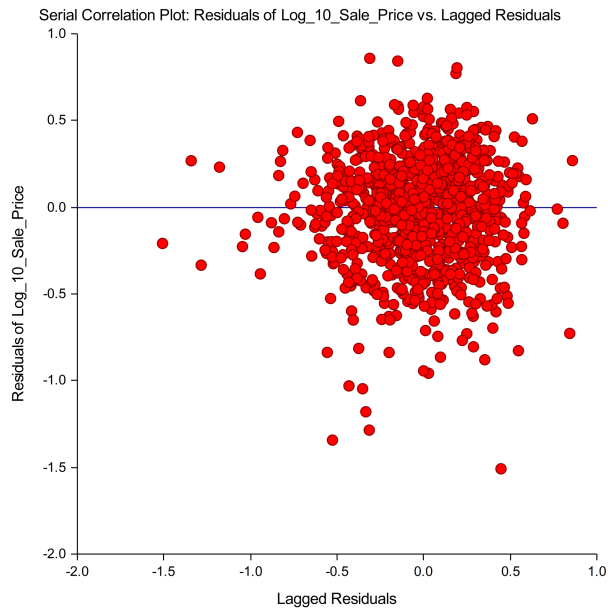
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log_10_Sale_Price

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Serial Correlation Plot: Residuals vs Lagged Residuals



Robust Multiple Regression Report

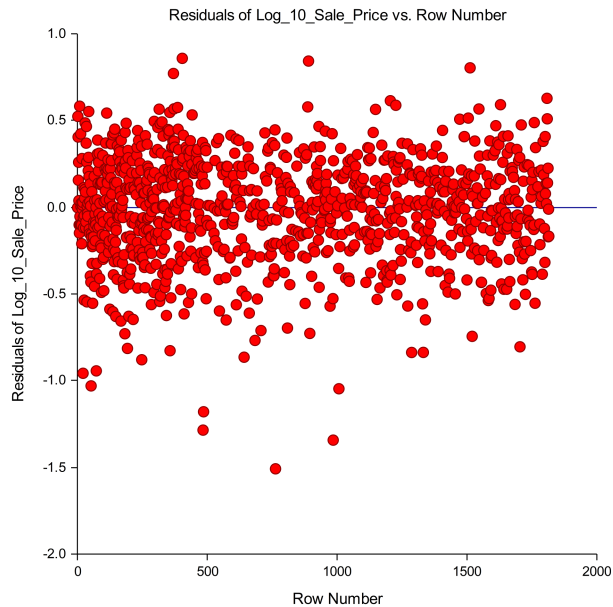
Dataset C:\Users\Dr_Ia\Desktop\BHTotalDataSaleDateAvValues313jan2023.NCSS

Dependent Log_10_Sale_Price

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

Sequence Plot: Residuals vs Row



Robust Multiple Regression Report

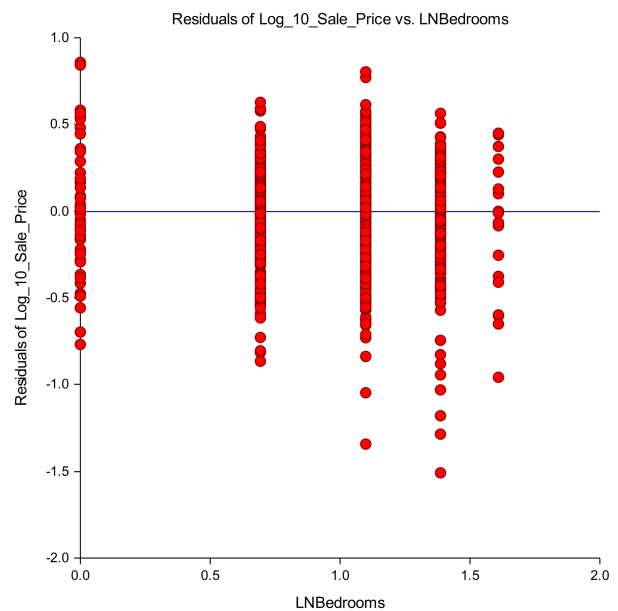
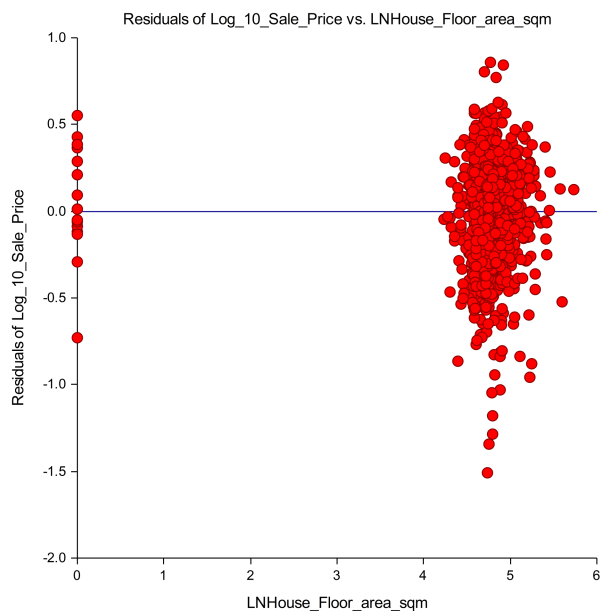
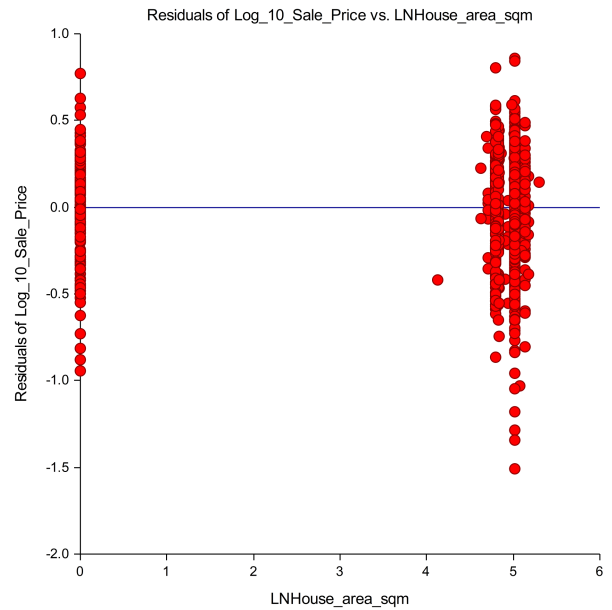
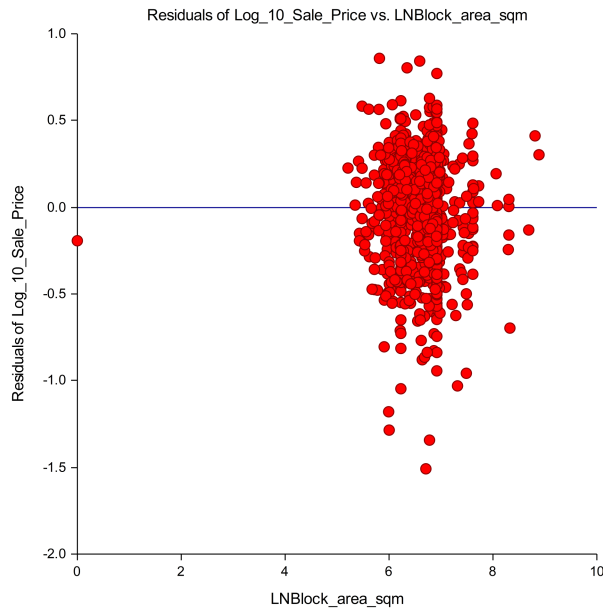
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Dependent Log_10_Sale_Price

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



Robust Multiple Regression Report

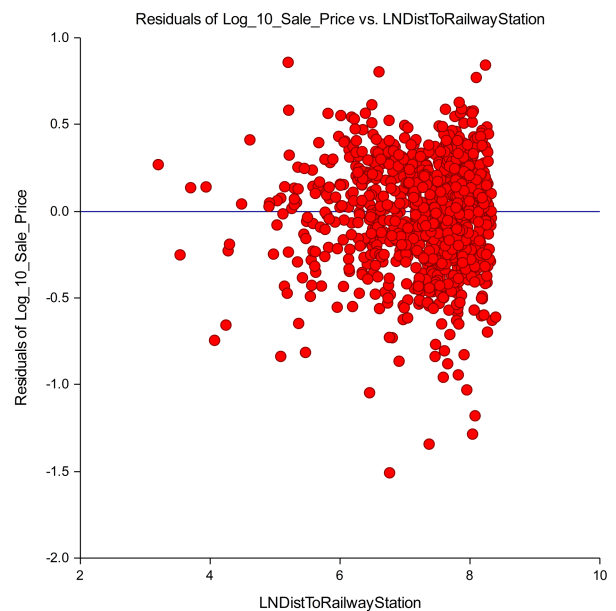
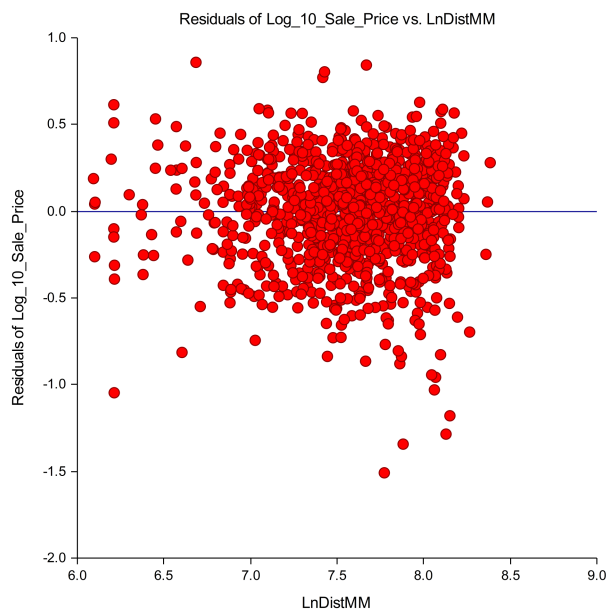
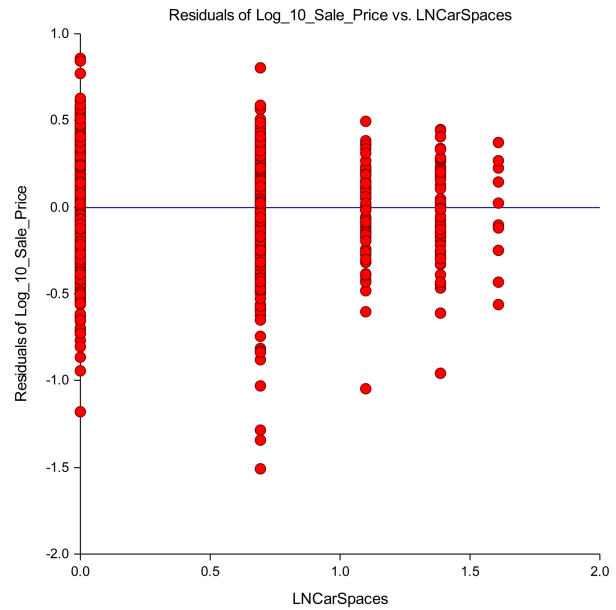
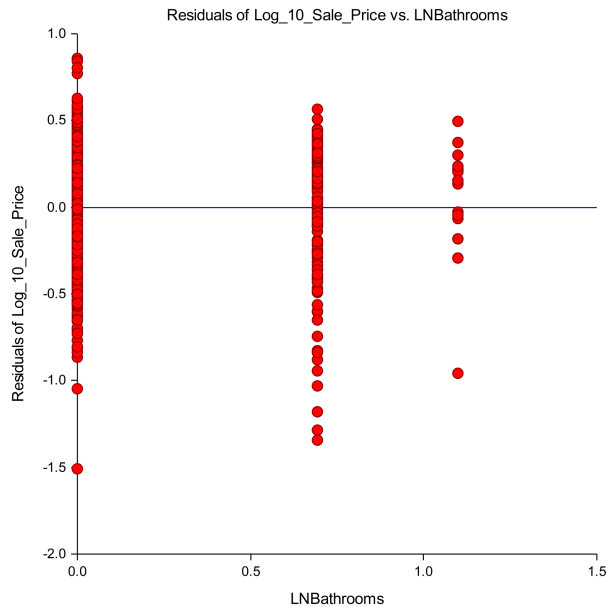
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Dependent Log_10_Sale_Price

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!

Residuals vs X Plots (Continued)



Robust Multiple Regression Report

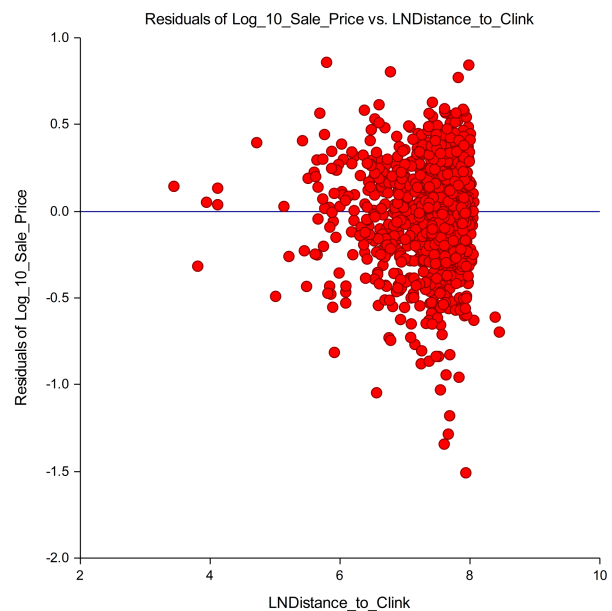
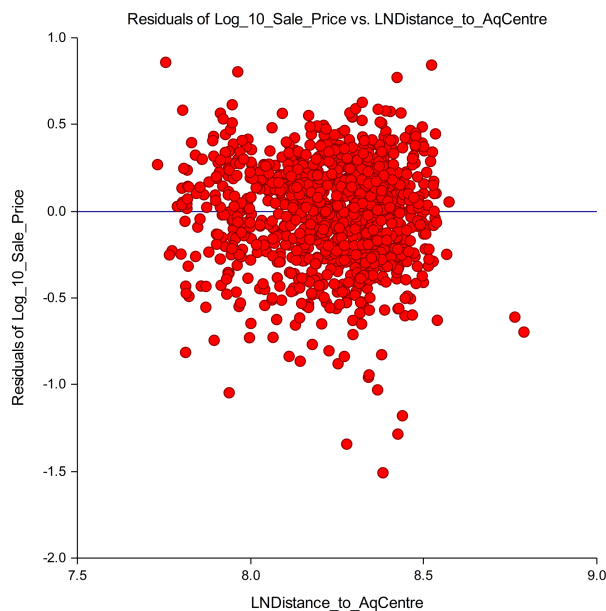
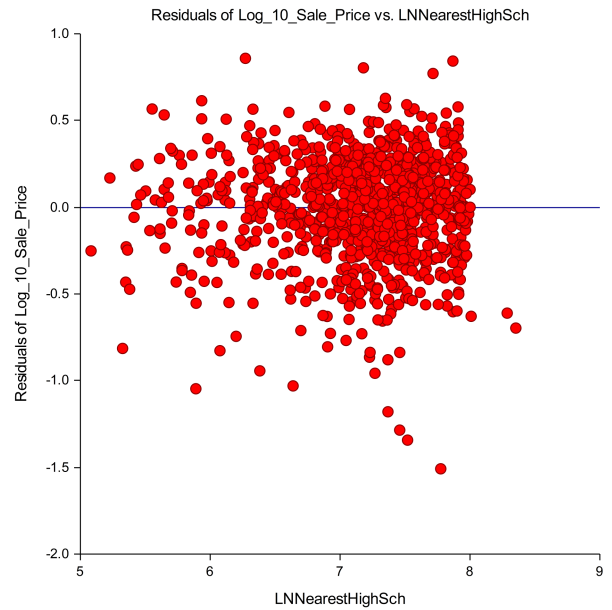
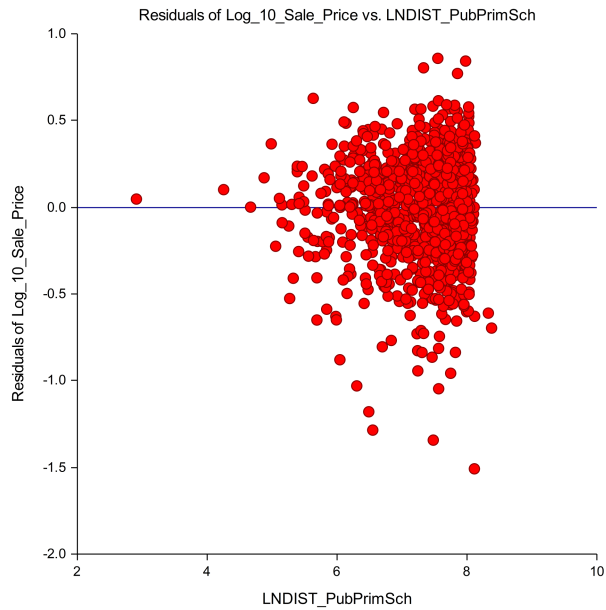
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Dependent Log_10_Sale_Price

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!

Residuals vs X Plots (Continued)



Robust Multiple Regression Report

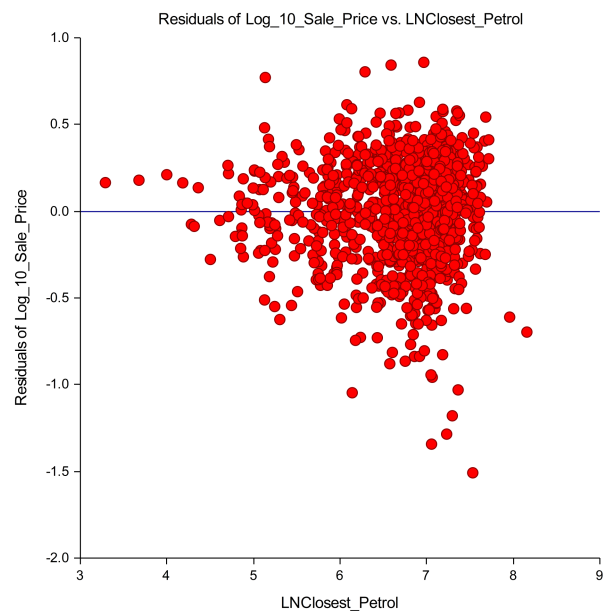
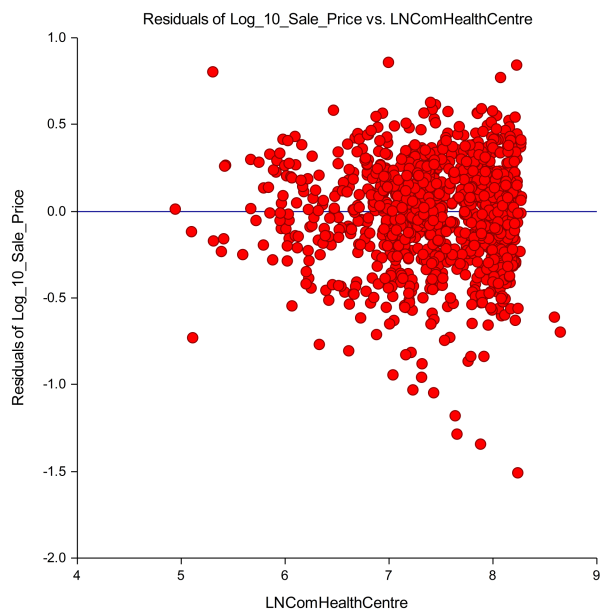
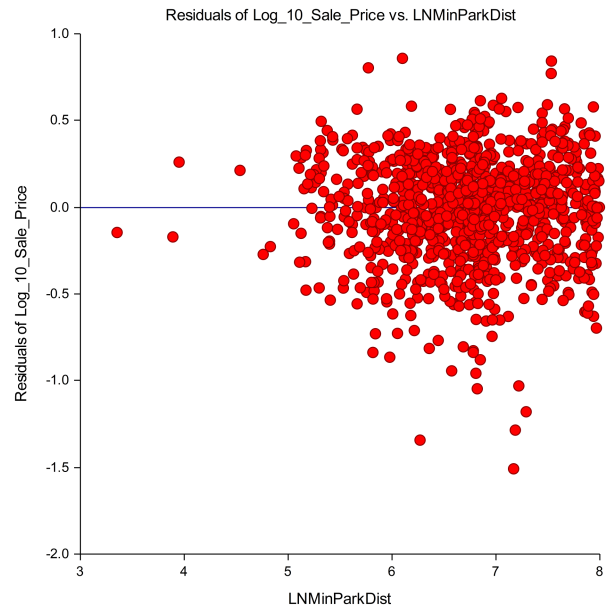
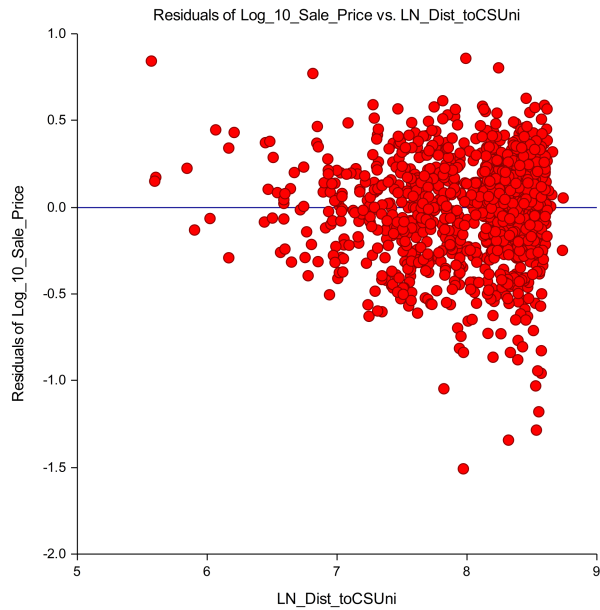
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Dependent Log_10_Sale_Price

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!

Residuals vs X Plots (Continued)



Robust Multiple Regression Report

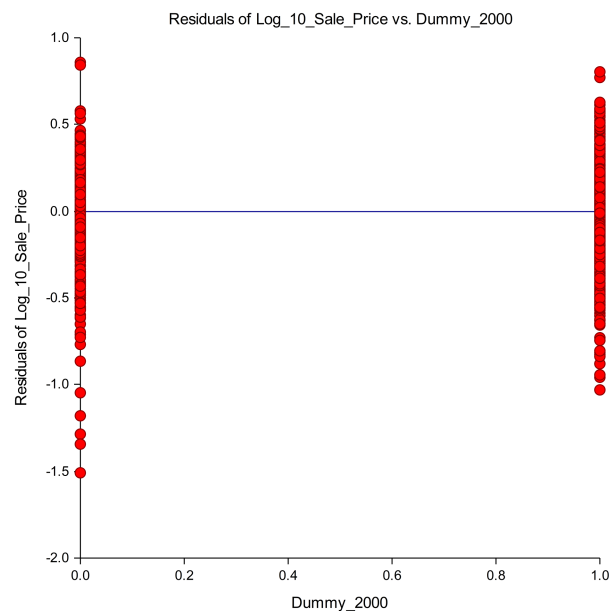
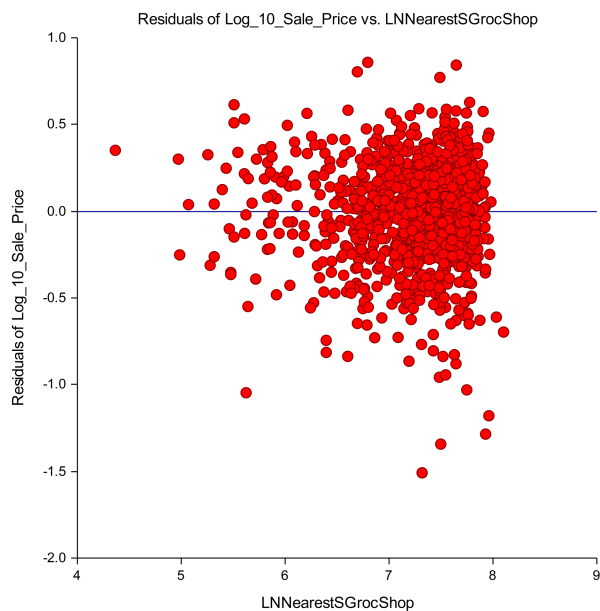
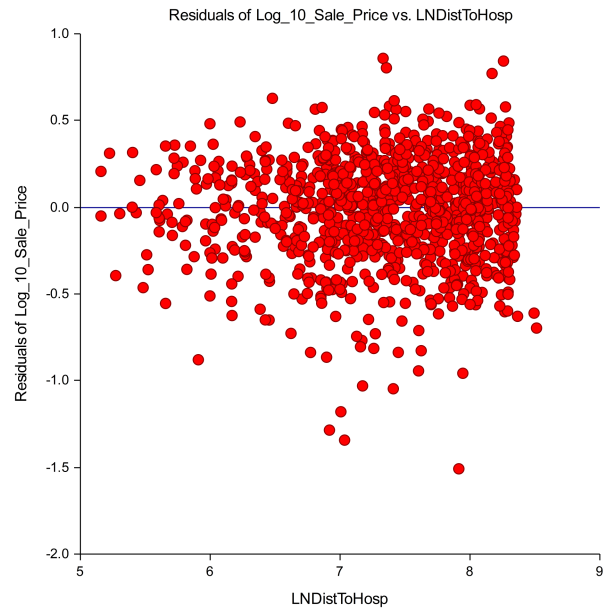
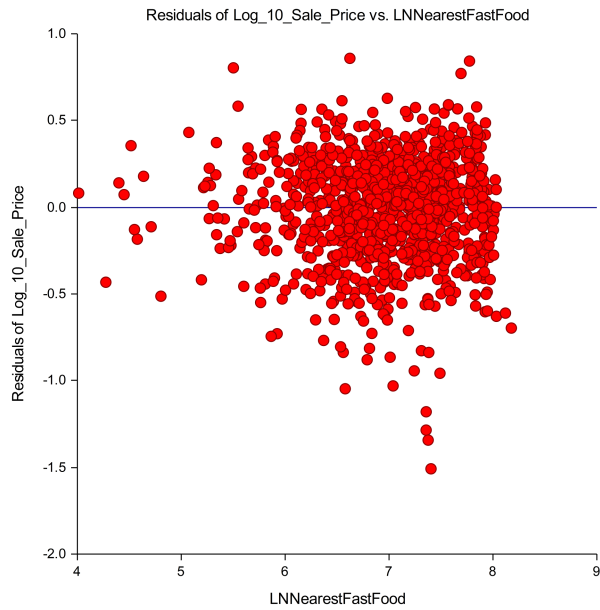
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Dependent Log_10_Sale_Price

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!

Residuals vs X Plots (Continued)



Robust Multiple Regression Report

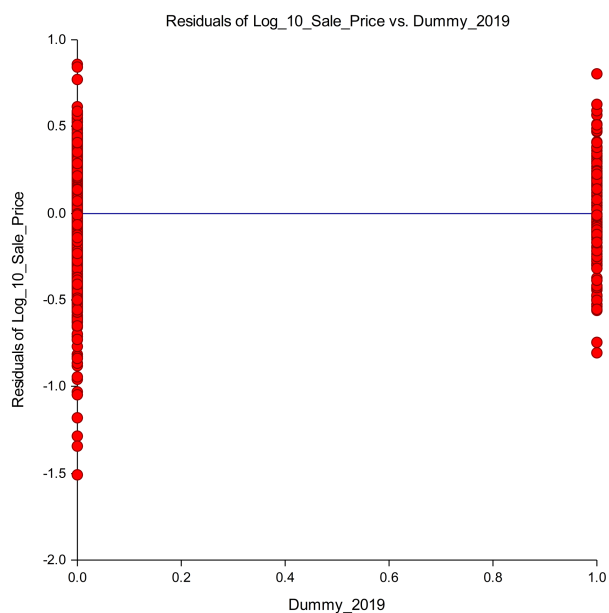
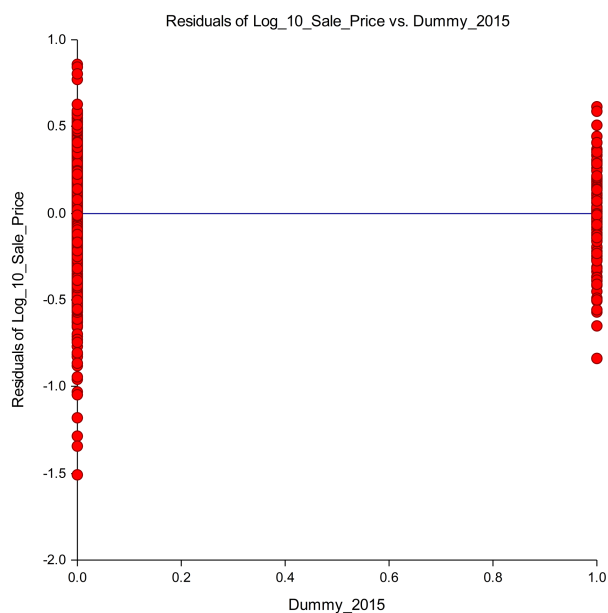
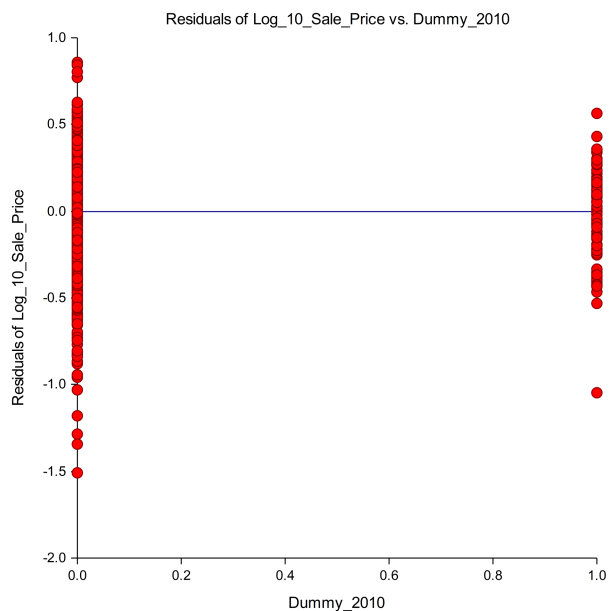
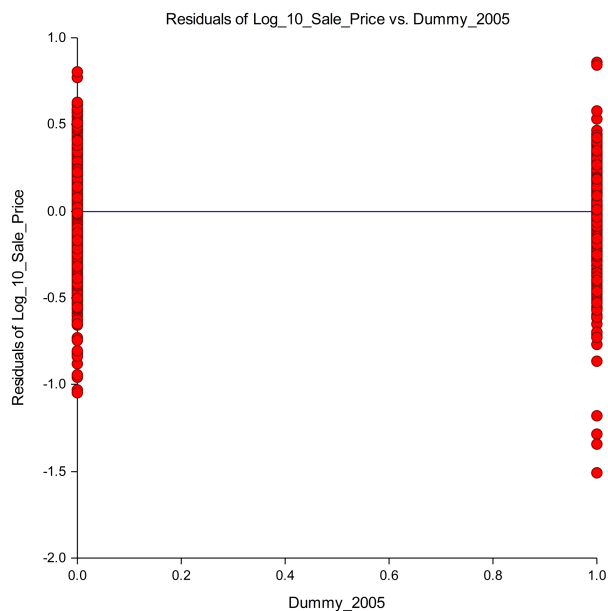
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Dependent Log_10_Sale_Price

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!

Residuals vs X Plots (Continued)



Robust Multiple Regression Report

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

Dependent Log_10_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!

Procedure Input Settings**Autosaved Template File**

C:\Users\Dr_Ia\Documents\NCSS 2022\Procedure Templates\Autosave\Robust Regression - Autosaved 2023_4_11-14_24_17.t158

Variables, Model Tab

-- Variables -----

Y: Log_10_Sale_Price

Numeric X's: LNBlock_area_sqm, LNHouse_area_sqm, LNHouse_Floor_area_sqm, LNBedrooms, LNBathrooms, LNCarSpaces, LnDistMM, LNDistToRailwayStation, LNDIST_PubPrimSch, LNNearestHighSch, LNDistance_to_AqCentre, LNDistance_to_Clink, LN_Dist_toCSUni, LNMinParkDist, LNComHealthCentre, LNClosest_Petrol, LNNearestFastFood, LNDistToHosp, LNNearestSGrocShop, 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

-- 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

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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

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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

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Dependent Log_10_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

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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
