

The SAS System

The REG Procedure

Model: MODEL1

Dependent Variable: TotalPrice TotalPrice

Number of Observations Read	351
Number of Observations Used	351

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	19615765122	9807882561	2168.39	<.0001
Error	348	1574044410	4523116		
Corrected Total	350	21189809533			

Root MSE	2126.76189	R-Square	0.9257
Dependent Mean	7450.01168	Adj R-Sq	0.9253
Coeff Var	28.54709		

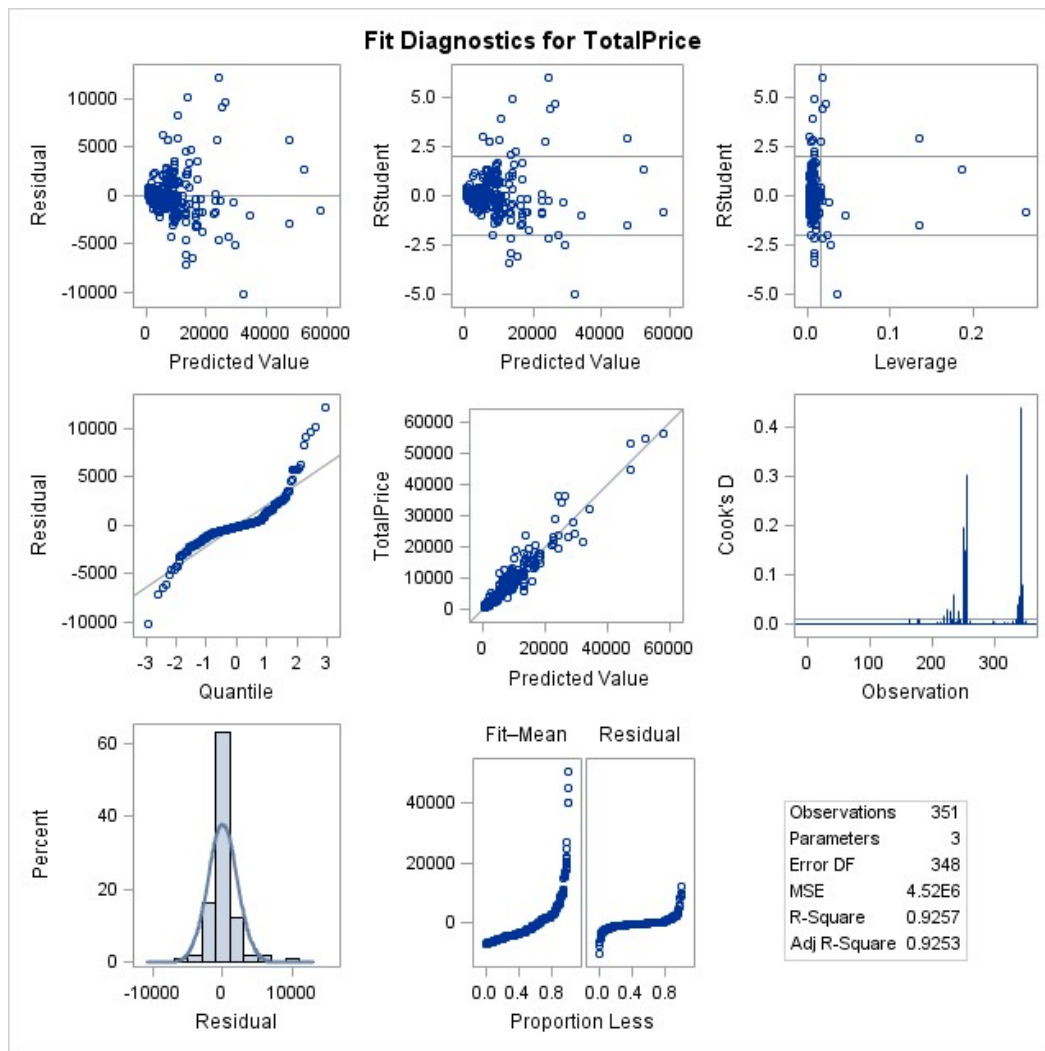
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-522.70215	466.29203	-1.12	0.2631
Carat	Carat	1	2385.98623	752.54477	3.17	0.0017
Caratsq		1	4498.20620	263.03915	17.10	<.0001

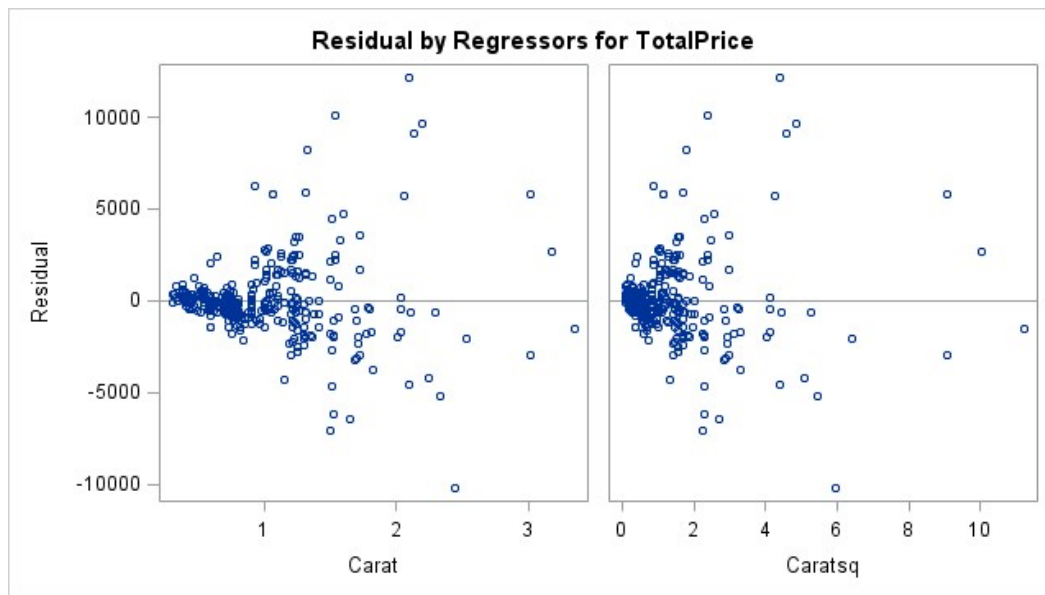
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	19616098308	6538699436	1441.77	<.0001
Error	347	1573711225	4535191		
Corrected Total	350	21189809533			

Root MSE	2129.59875	R-Square	0.9257
Dependent Mean	7450.01168	Adj R-Sq	0.9251
Coeff Var	28.58517		

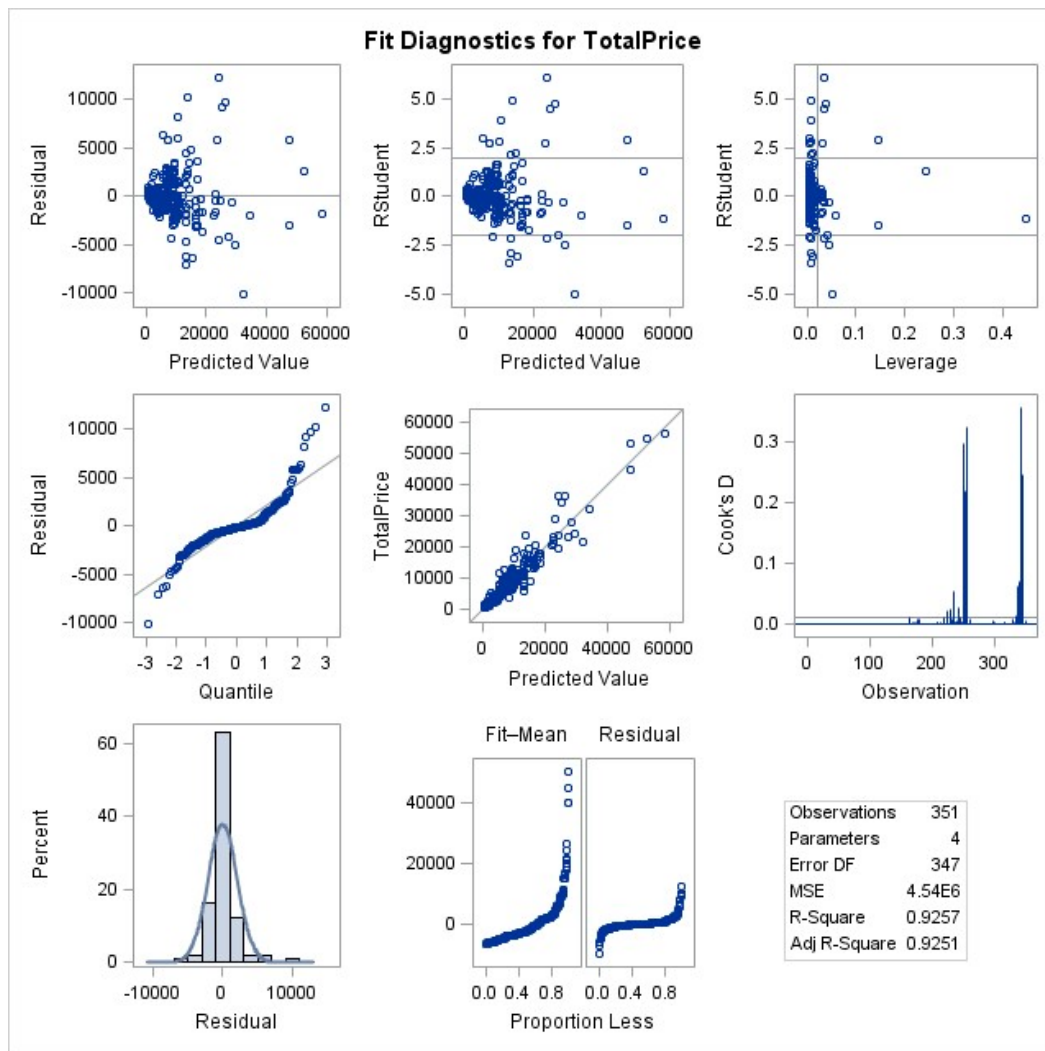
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-723.44177	875.50453	-0.83	0.4092
Carat	Carat	1	2942.01621	2185.43660	1.35	0.1791
Caratsq		1	4077.64889	1573.79849	2.59	0.0100
Caratcb		1	87.92222	324.37968	0.27	0.7865

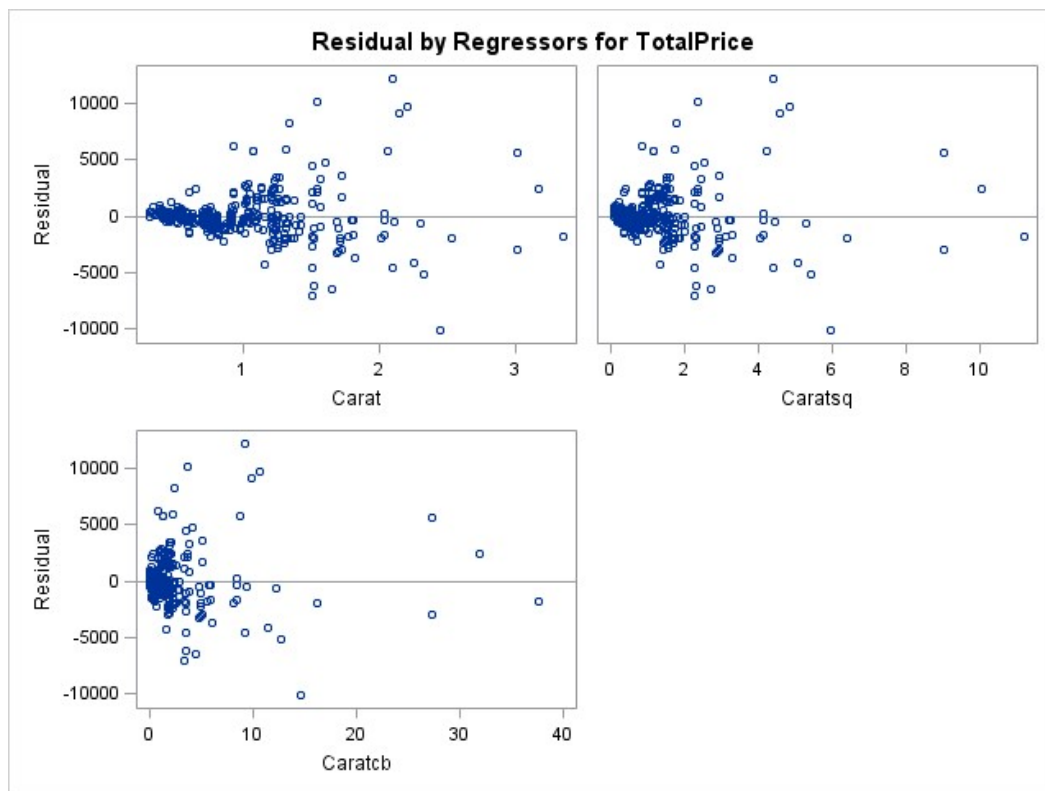
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1006009273	503004636	8.67	0.0002
Error	348	20183800260	57999426		
Corrected Total	350	21189809533			

Root MSE	7615.73542	R-Square	0.0475
Dependent Mean	7450.01168	Adj R-Sq	0.0420
Coeff Var	102.22448		

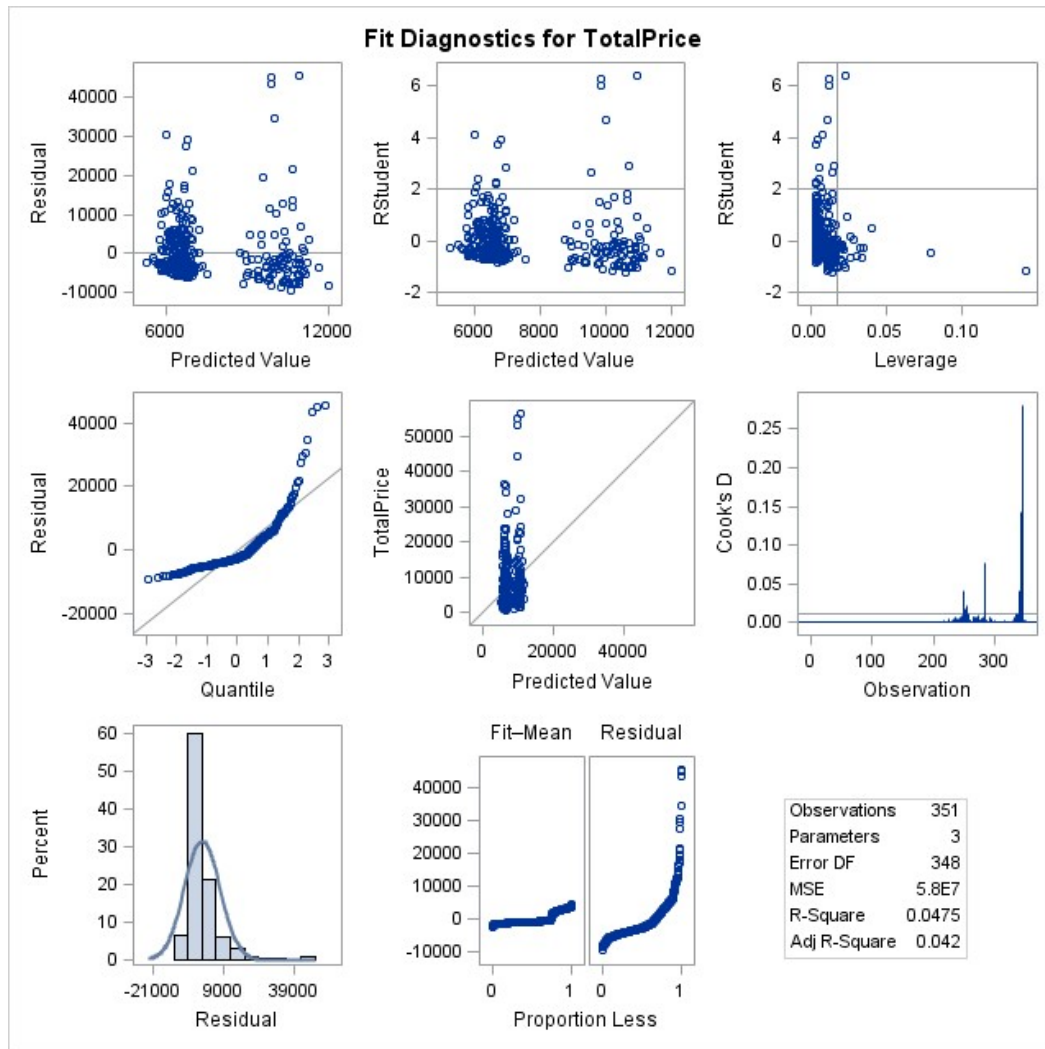
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-28407	112212	-0.25	0.8003
Depth	Depth	1	766.36929	3353.22155	0.23	0.8194
Depthsq		1	-3.23309	24.86860	-0.13	0.8966

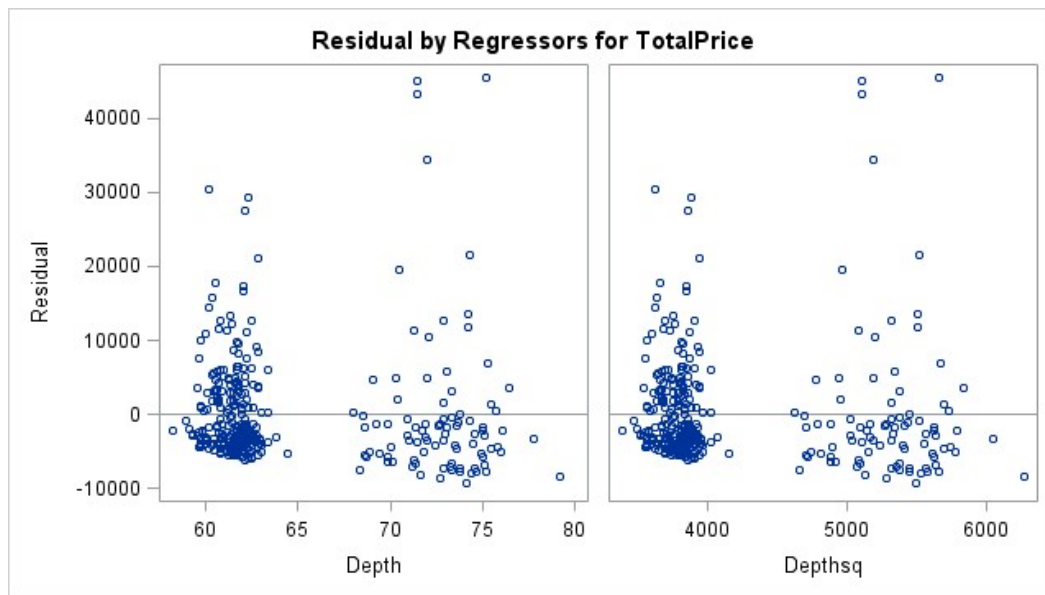
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	18443341048	9221670524	1168.46	<.0001
Error	348	2746468485	7892151		
Corrected Total	350	21189809533			

Root MSE	2809.29721	R-Square	0.8704
Dependent Mean	7450.01168	Adj R-Sq	0.8696
Coeff Var	37.70863		

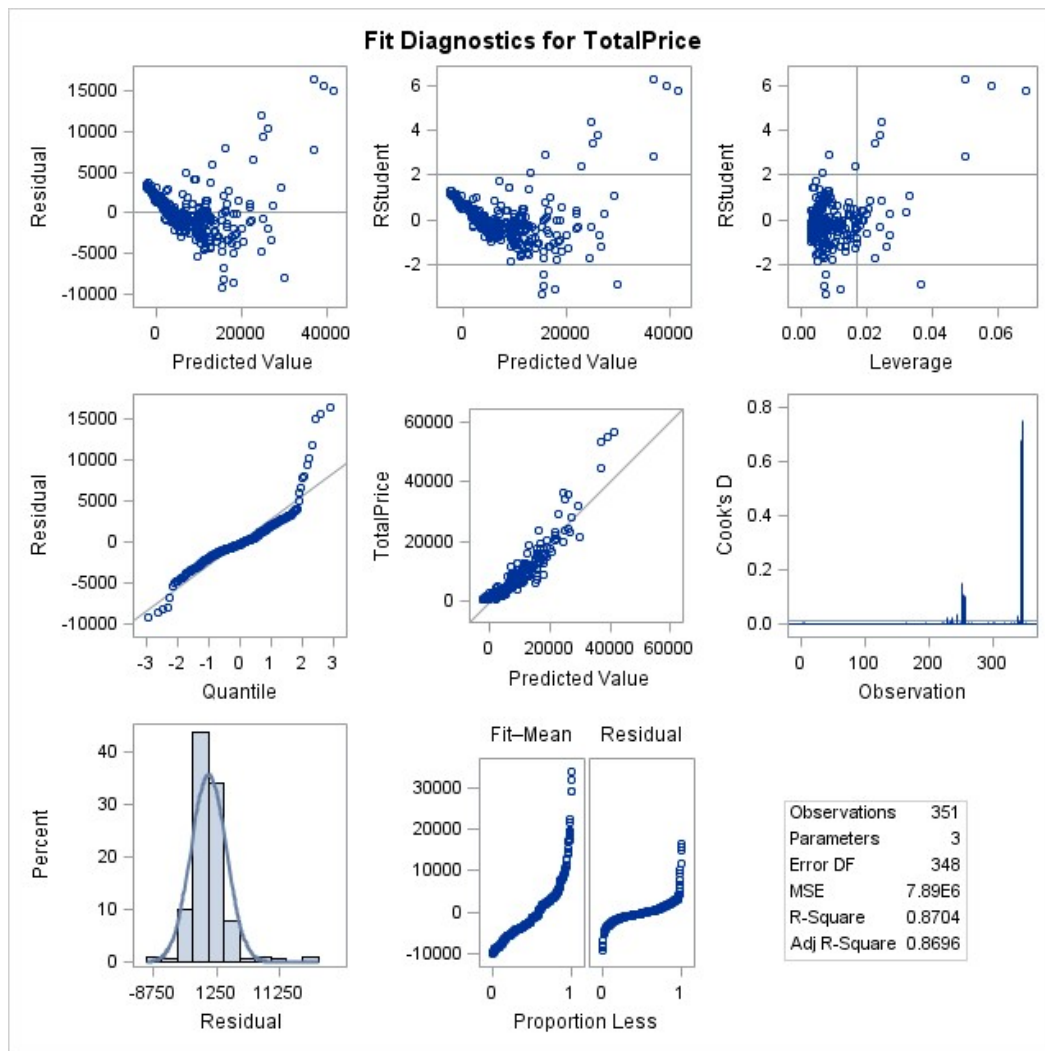
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	1059.24494	1918.36027	0.55	0.5812
Carat	Carat	1	15087	320.95841	47.01	<.0001
Depth	Depth	1	-134.94471	30.92045	-4.36	<.0001

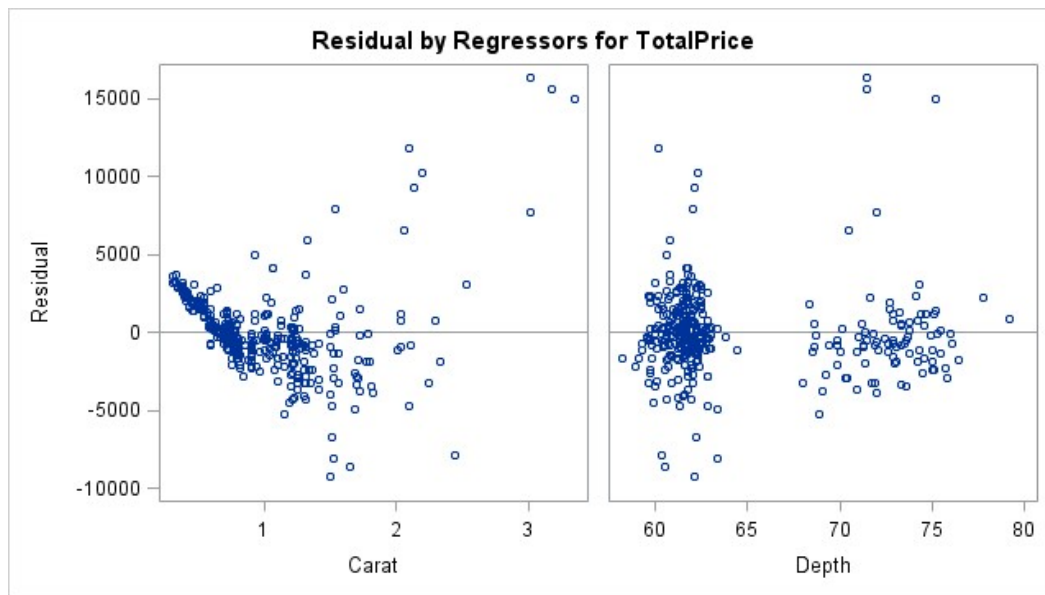
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	18858539949	6286179983	935.67	<.0001
Error	347	2331269584	6718356		
Corrected Total	350	21189809533			

Root MSE	2591.97920	R-Square	0.8900
Dependent Mean	7450.01168	Adj R-Sq	0.8890
Coeff Var	34.79161		

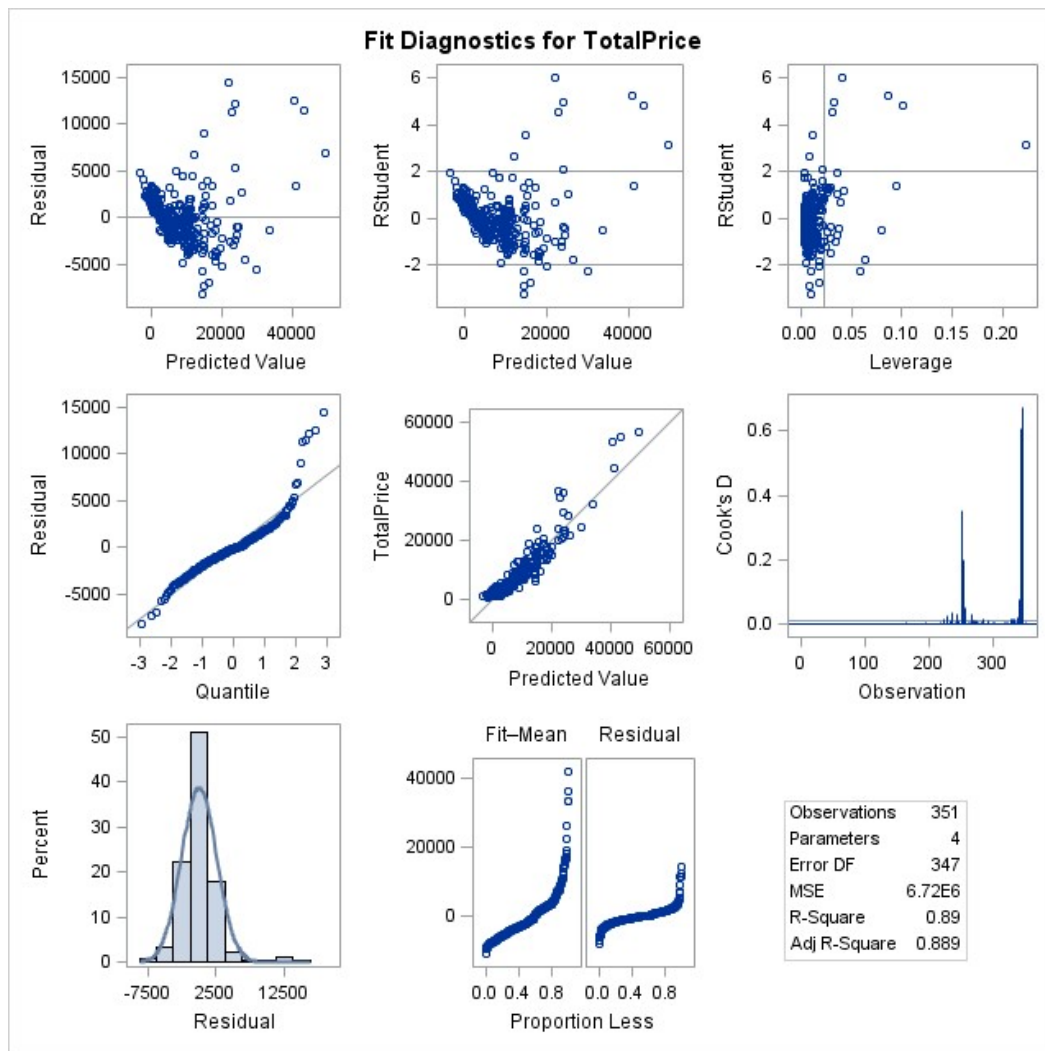
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	31171	4219.57501	7.39	<.0001
Carat	Carat	1	-11828	3436.46716	-3.44	0.0006
Depth	Depth	1	-598.18238	65.46874	-9.14	<.0001
CaratDepth		1	408.44615	51.95630	7.86	<.0001

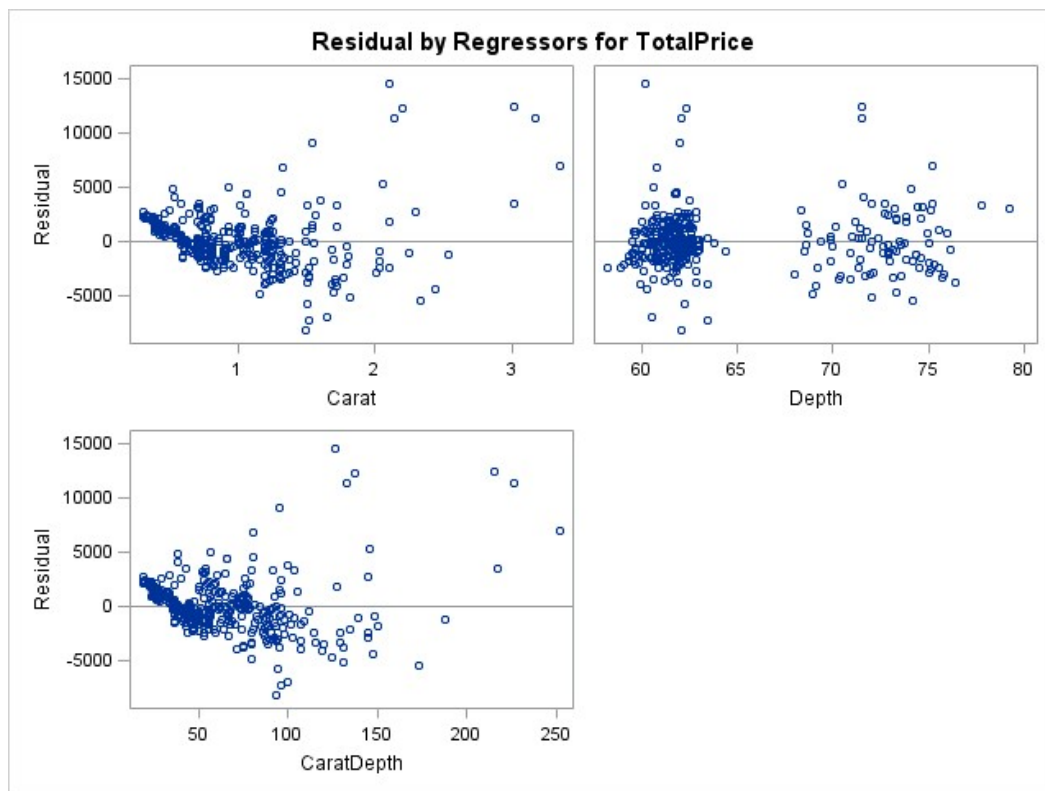
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	19735107439	3947021488	936.08	<.0001
Error	345	1454702094	4216528		
Corrected Total	350	21189809533			

Root MSE	2053.41857	R-Square	0.9313
Dependent Mean	7450.01168	Adj R-Sq	0.9304
Coeff Var	27.56262		

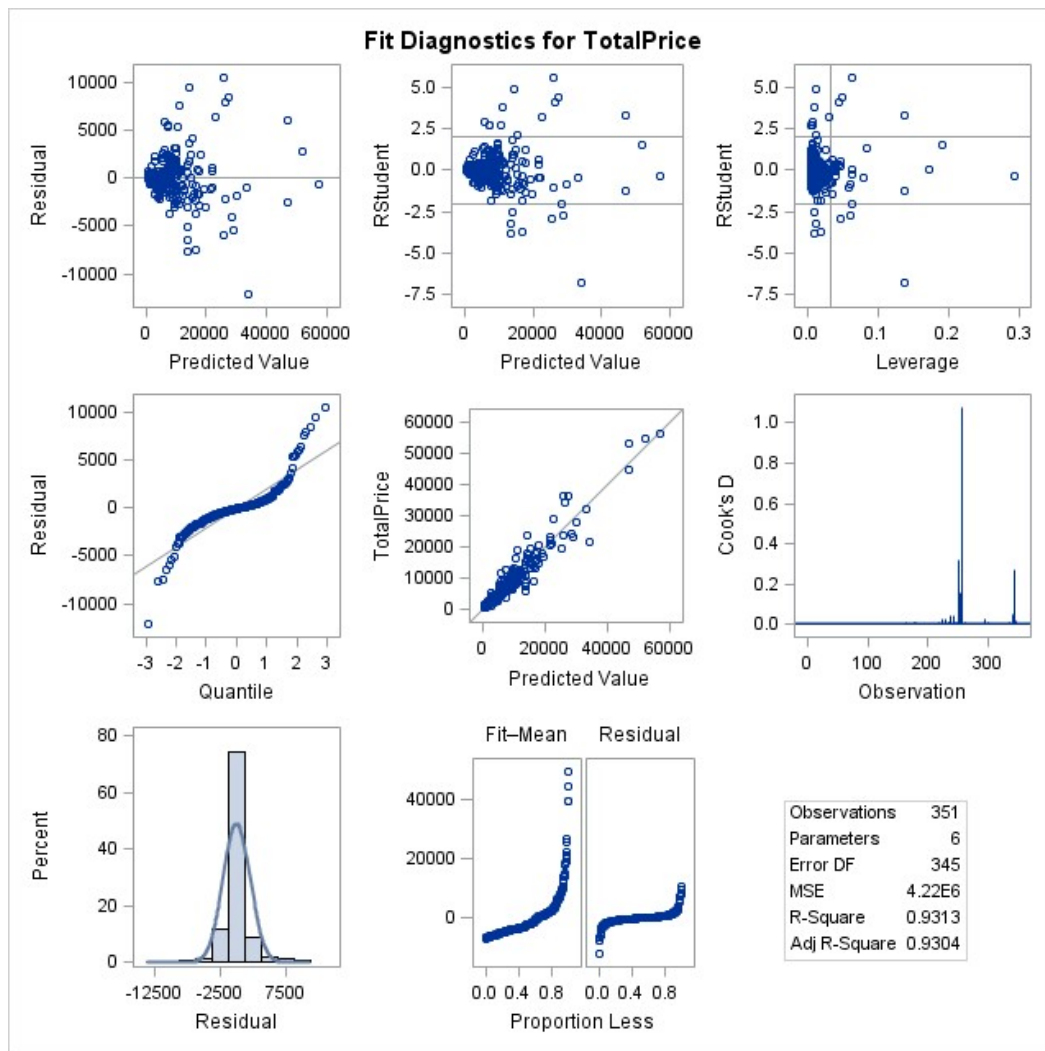
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	24339	30298	0.80	0.4223
Carat	Carat	1	7573.62012	3040.78679	2.49	0.0132
Caratsq		1	4761.59224	330.24557	14.42	<.0001
Depth	Depth	1	-728.69965	904.43909	-0.81	0.4210
Depthsq		1	5.27624	6.72655	0.78	0.4333
CaratDepth		1	-83.89095	53.53018	-1.57	0.1180

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	244.51775	48.90355	919.88	<.0001
Error	345	18.34126	0.05316		
Corrected Total	350	262.85901			

Root MSE	0.23057	R-Square	0.9302
Dependent Mean	8.53353	Adj R-Sq	0.9292
Coeff Var	2.70194		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	13.50496	3.40205	3.97	<.0001
Carat	Carat	1	2.58635	0.34144	7.57	<.0001
Caratsq		1	-0.57141	0.03708	-15.41	<.0001
Depth	Depth	1	-0.20277	0.10156	-2.00	0.0467
Depthsq		1	0.00134	0.00075530	1.77	0.0773
CaratDepth		1	0.00959	0.00601	1.60	0.1114

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