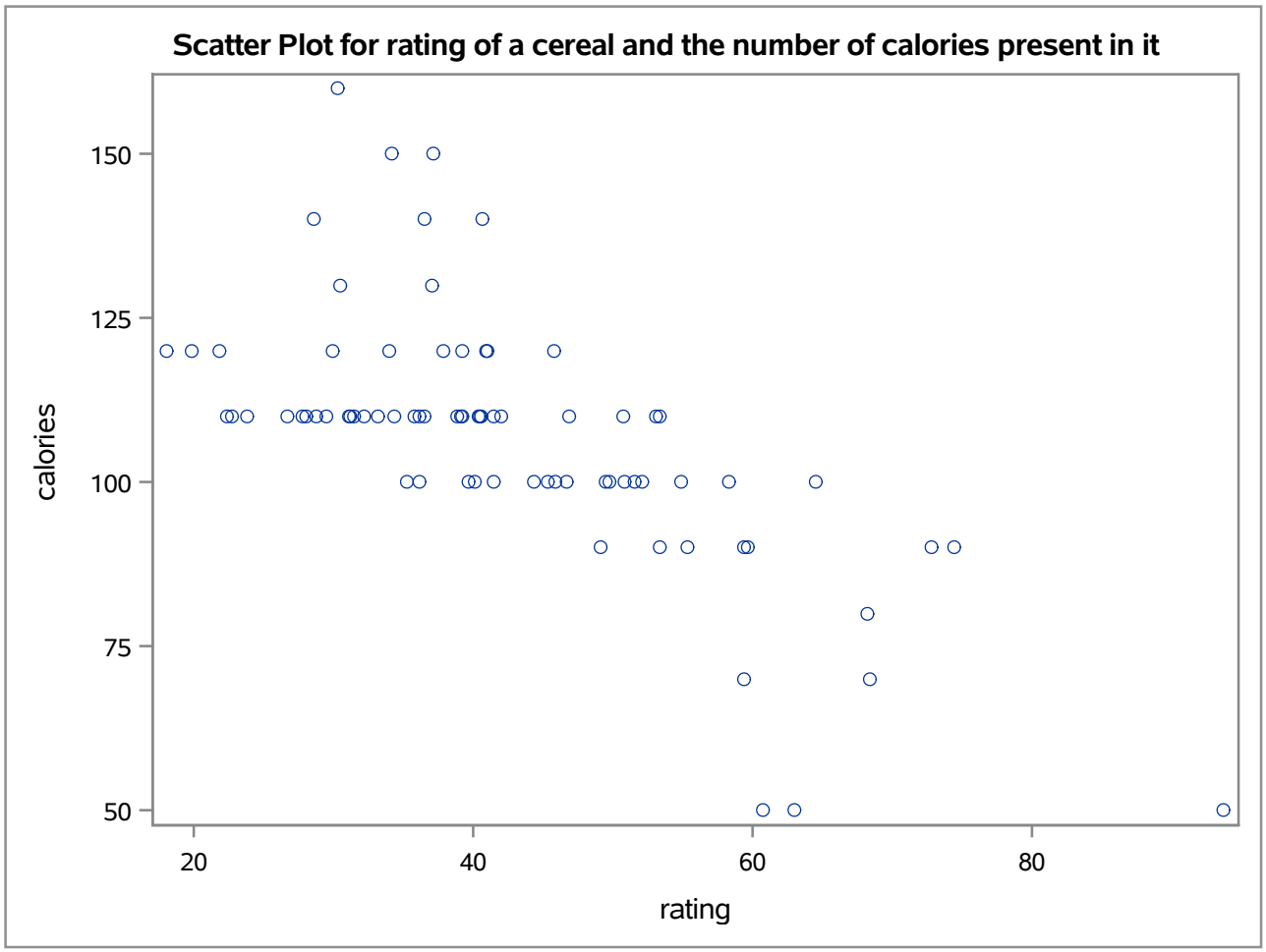
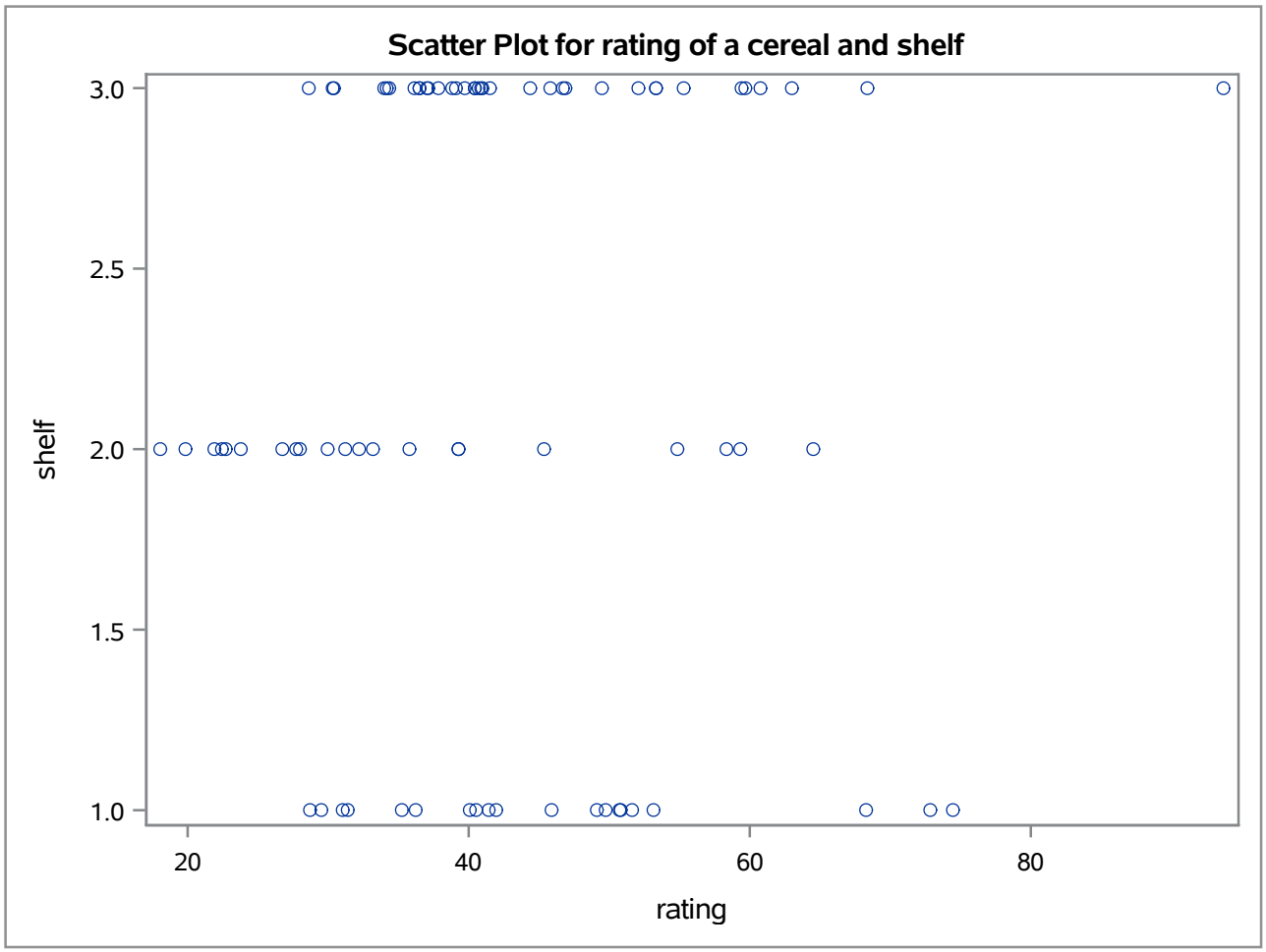

Scatter Plot for rating of a cereal and the number of calories present in it
calories
150
125
100
75
50
20
40
60
80
rating


Scatter Plot for rating of a cereal and shelf
3.0
2.5
2.0
1.5
1.0
shelf
20
40
60
80
rating

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Number of Observations Read	77
Number of Observations Used	77

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	8.71574	4.35787	4.79	0.0110
Error	74	67.28426	0.90925		
Corrected Total	76	76.00000			

Root MSE	0.95354	**R-Square**	0.1147
Dependent Mean	2.16277E-18	**Adj R-Sq**	0.0908
Coeff Var	4.408899E19		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	2.10104E-17	0.10867	0.00	1.0000
shelf	1	-0.02742	0.11070	-0.25	0.8050
shelf2	1	-0.34178	0.11070	-3.09	0.0028

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	1.8322	0.1818	0.1589	1.6503	0.940	1.755	0.029
2	-0.6181	0.1818	0.1589	-0.7999	0.940	-0.851	0.007
3	1.1931	0.1818	0.1589	1.0113	0.940	1.076	0.011
4	3.6334	0.1818	0.1589	3.4515	0.940	3.671	0.128
5	-0.5895	0.1818	0.1589	-0.7713	0.940	-0.820	0.006
6	-0.9366	0.2477	0.2132	-1.1843	0.929	-1.274	0.028
7	-0.6757	-0.5476	0.2081	-0.1280	0.931	-0.138	0.000
8	-0.4006	0.1818	0.1589	-0.5824	0.940	-0.619	0.004
9	0.4595	0.2477	0.2132	0.2118	0.929	0.228	0.001
10	0.7580	0.1818	0.1589	0.5762	0.940	0.613	0.004
11	-1.7529	-0.5476	0.2081	-1.2052	0.931	-1.295	0.028
12	0.5766	0.2477	0.2132	0.3289	0.929	0.354	0.002
13	-1.6261	-0.5476	0.2081	-1.0784	0.931	-1.159	0.022
14	-0.1613	0.1818	0.1589	-0.3431	0.940	-0.365	0.001
15	-1.4187	-0.5476	0.2081	-0.8711	0.931	-0.936	0.015
16	-0.0869	0.2477	0.2132	-0.3346	0.929	-0.360	0.002
17	0.2276	0.2477	0.2132	-0.0201	0.929	-0.022	0.000
18	-0.4900	-0.5476	0.2081	0.0577	0.931	0.062	0.000
19	-1.4429	-0.5476	0.2081	-0.8953	0.931	-0.962	0.015
20	-0.1578	0.1818	0.1589	-0.3397	0.940	-0.361	0.001
21	1.5567	-0.5476	0.2081	2.1044	0.931	2.261	0.085
22	0.3011	0.1818	0.1589	0.1193	0.940	0.127	0.000
23	-0.4620	0.1818	0.1589	-0.6438	0.940	-0.685	0.004
24	0.1185	0.1818	0.1589	-0.0633	0.940	-0.067	0.000
25	-0.7445	-0.5476	0.2081	-0.1969	0.931	-0.212	0.001
26	-0.7994	0.2477	0.2132	-1.0471	0.929	-1.127	0.022
27	1.1162	-0.5476	0.2081	1.6638	0.931	1.788	0.053
28	-0.1245	0.1818	0.1589	-0.3063	0.940	-0.326	0.001
29	-0.1175	0.1818	0.1589	-0.2993	0.940	-0.318	0.001
30	-1.0422	-0.5476	0.2081	-0.4945	0.931	-0.531	0.005
31	-0.5277	0.2477	0.2132	-0.7755	0.929	-0.834	0.012
32	-1.3427	-0.5476	0.2081	-0.7951	0.931	-0.854	0.012
33	0.6700	0.1818	0.1589	0.4881	0.940	0.519	0.003

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	0.7621	0.1818	0.1589	0.5803	0.940	0.617	0.004
35	0.2240	0.1818	0.1589	0.0421	0.940	0.045	0.000
36	-1.4803	-0.5476	0.2081	-0.9327	0.931	-1.002	0.017
37	-0.8253	0.2477	0.2132	-1.0730	0.929	-1.155	0.023
38	-0.9912	0.2477	0.2132	-1.2389	0.929	-1.333	0.031
39	-0.4372	0.1818	0.1589	-0.6191	0.940	-0.658	0.004
40	-0.4410	0.1818	0.1589	-0.6228	0.940	-0.662	0.004
41	-0.2438	-0.5476	0.2081	0.3039	0.931	0.327	0.002
42	0.1895	-0.5476	0.2081	0.7372	0.931	0.792	0.010
43	-1.1341	-0.5476	0.2081	-0.5865	0.931	-0.630	0.007
44	0.8674	-0.5476	0.2081	1.4151	0.931	1.521	0.039
45	-0.3936	0.1818	0.1589	-0.5754	0.940	-0.612	0.004
46	-0.6069	0.1818	0.1589	-0.7888	0.940	-0.839	0.007
47	-0.8793	0.1818	0.1589	-1.0612	0.940	-1.129	0.012
48	-0.1822	0.2477	0.2132	-0.4299	0.929	-0.463	0.004
49	-0.9070	-0.5476	0.2081	-0.3594	0.931	-0.386	0.002
50	-0.1405	0.1818	0.1589	-0.3223	0.940	-0.343	0.001
51	1.2086	0.1818	0.1589	1.0267	0.940	1.092	0.011
52	-0.8696	0.1818	0.1589	-1.0514	0.940	-1.118	0.012
53	-0.3435	0.1818	0.1589	-0.5253	0.940	-0.559	0.003
54	-0.0827	0.1818	0.1589	-0.2646	0.940	-0.281	0.001
55	1.2878	0.1818	0.1589	1.1060	0.940	1.176	0.013
56	1.4480	0.1818	0.1589	1.2661	0.940	1.347	0.017
57	0.4874	0.1818	0.1589	0.3055	0.940	0.325	0.001
58	0.5811	0.2477	0.2132	0.3334	0.929	0.359	0.002
59	-0.2425	-0.5476	0.2081	0.3051	0.931	0.328	0.002
60	-0.2109	0.1818	0.1589	-0.3927	0.940	-0.418	0.002
61	0.9018	0.1818	0.1589	0.7199	0.940	0.766	0.006
62	-0.0475	0.2477	0.2132	-0.2952	0.929	-0.318	0.002
63	-0.1499	0.2477	0.2132	-0.3976	0.929	-0.428	0.003
64	1.8203	0.2477	0.2132	1.5726	0.929	1.692	0.050
65	2.2643	0.2477	0.2132	2.0166	0.929	2.170	0.083
66	2.1453	0.2477	0.2132	1.8976	0.929	2.042	0.073

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
67	-0.8141	-0.5476	0.2081	-0.2664	0.931	-0.286	0.001
68	0.7450	0.2477	0.2132	0.4973	0.929	0.535	0.005
69	1.1887	-0.5476	0.2081	1.7364	0.931	1.866	0.058
70	-0.2724	0.1818	0.1589	-0.4542	0.940	-0.483	0.002
71	-1.0018	0.1818	0.1589	-1.1837	0.940	-1.259	0.015
72	0.2843	0.1818	0.1589	0.1024	0.940	0.109	0.000
73	-0.2534	0.1818	0.1589	-0.4352	0.940	-0.463	0.002
74	-1.0616	-0.5476	0.2081	-0.5139	0.931	-0.552	0.005
75	0.5070	0.2477	0.2132	0.2593	0.929	0.279	0.001
76	0.6355	0.2477	0.2132	0.3877	0.929	0.417	0.003
77	-0.4612	0.2477	0.2132	-0.7089	0.929	-0.763	0.010

The REG Procedure
Model: MODEL1
Dependent Variable: rating

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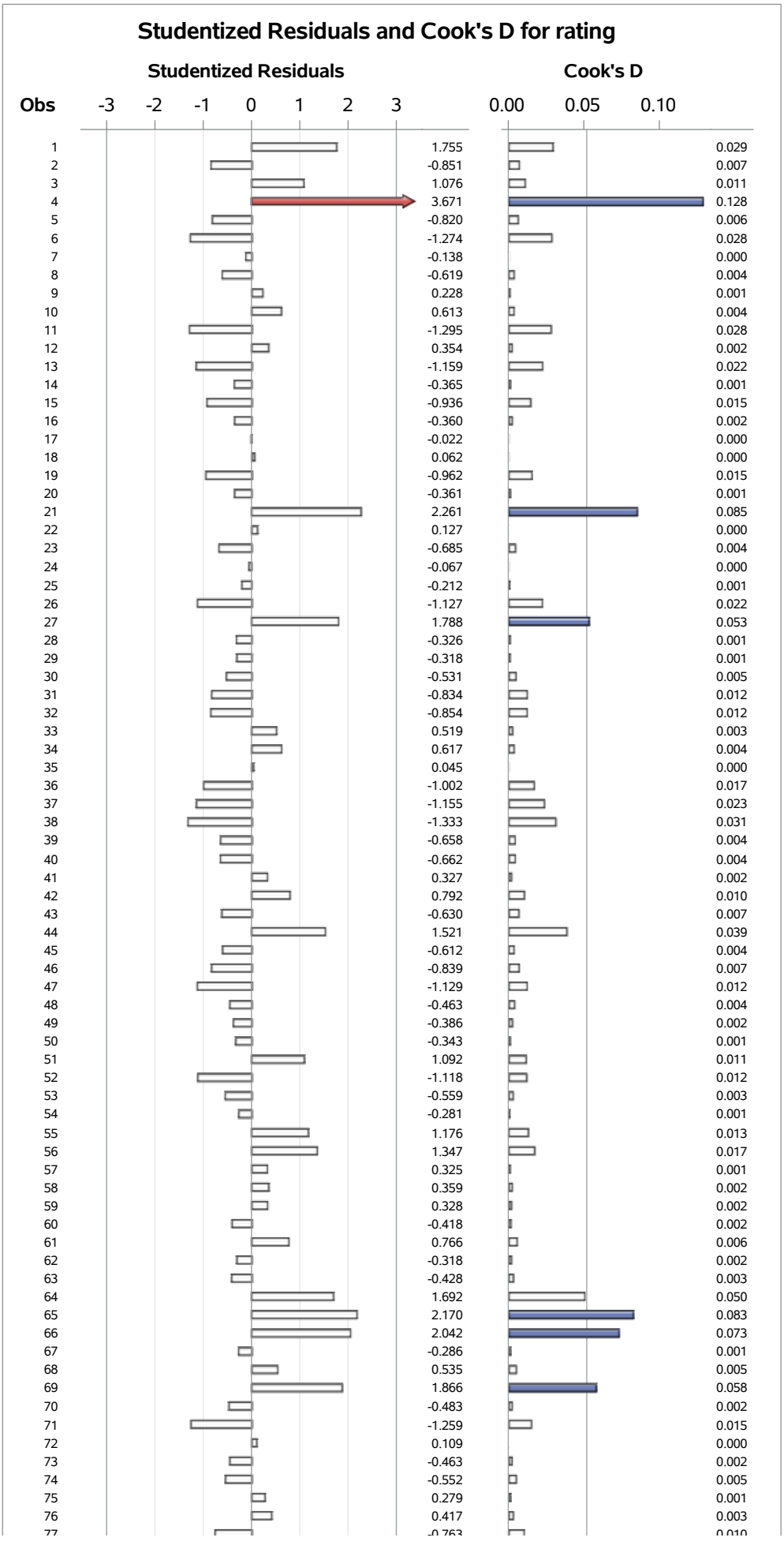
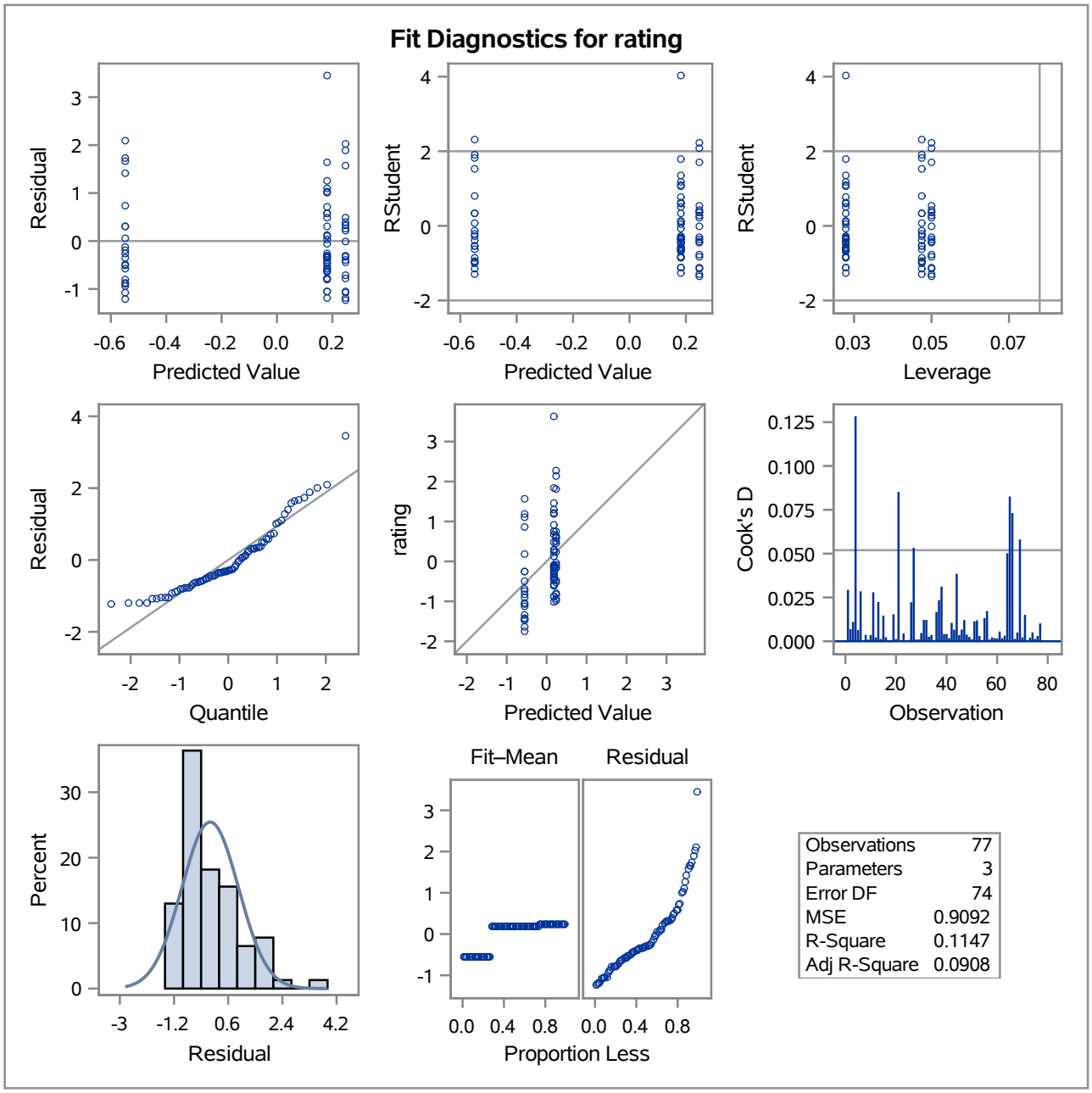
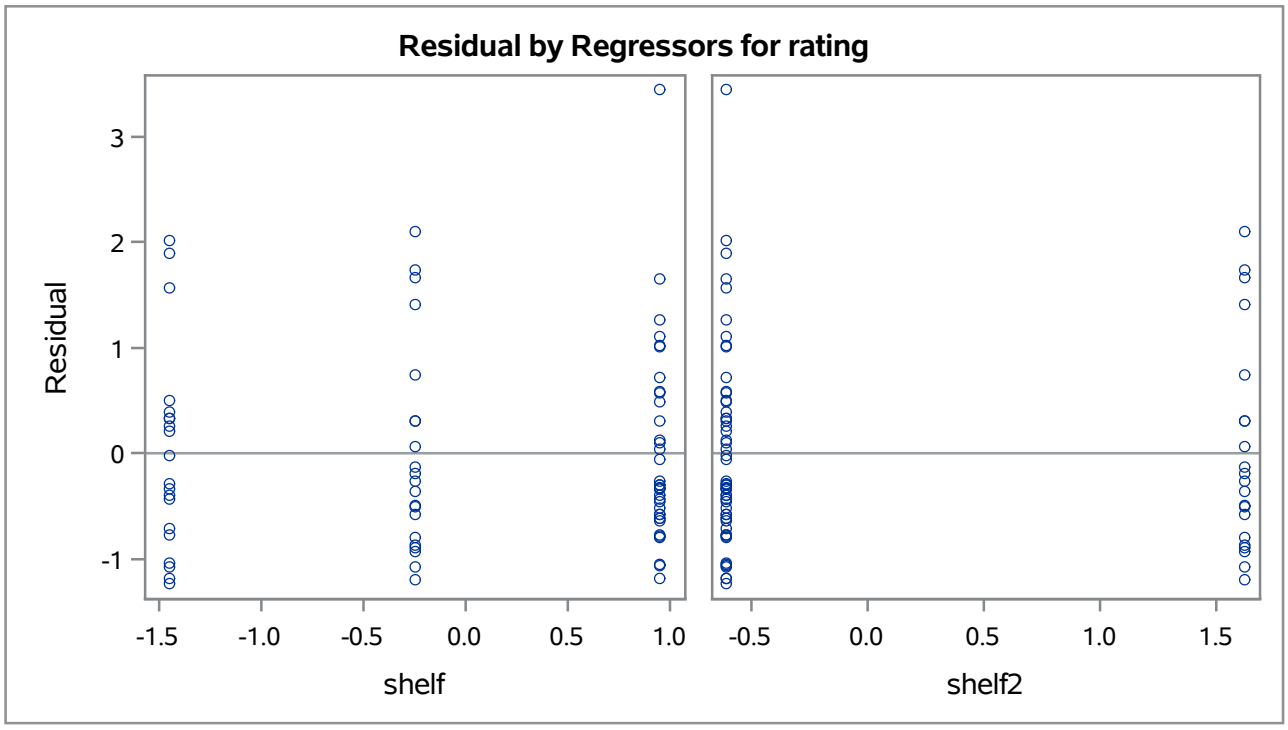


The REG Procedure
Model: MODEL1
Dependent Variable: rating

Sum of Residuals	0
Sum of Squared Residuals	67.28426
Predicted Residual SS (PRESS)	72.94926



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1
Dependent Variable: rating

Number of Observations Read	77
Number of Observations Used	77

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	9.49246	9.49246	0.05	0.8281
Error	75	14987	199.83077		
Corrected Total	76	14997			

Root MSE	14.13615	**R-Square**	0.0006
Dependent Mean	42.66570	**Adj R-Sq**	-0.0127
Coeff Var	33.13235		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	41.72848	4.59202	9.09	<.0001
shelf	1	0.42451	1.94772	0.22	0.8281

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	68.4	43.0020	2.2307	25.4010	13.959	1.820	0.042
2	34.0	43.0020	2.2307	-9.0183	13.959	-0.646	0.005
3	59.4	43.0020	2.2307	16.4235	13.959	1.177	0.018
4	93.7	43.0020	2.2307	50.7029	13.959	3.632	0.168
5	34.4	43.0020	2.2307	-8.6172	13.959	-0.617	0.005
6	29.5	42.1530	2.8512	-12.6434	13.846	-0.913	0.018
7	33.2	42.5775	1.6610	-9.4034	14.038	-0.670	0.003
8	37.0	43.0020	2.2307	-5.9634	13.959	-0.427	0.002
9	49.1	42.1530	2.8512	6.9673	13.846	0.503	0.005
10	53.3	43.0020	2.2307	10.3118	13.959	0.739	0.007
11	18.0	42.5775	1.6610	-24.5346	14.038	-1.748	0.021
12	50.8	42.1530	2.8512	8.6120	13.846	0.622	0.008
13	19.8	42.5775	1.6610	-22.7539	14.038	-1.621	0.018
14	40.4	43.0020	2.2307	-2.6018	13.959	-0.186	0.000
15	22.7	42.5775	1.6610	-19.8410	14.038	-1.413	0.014
16	41.4	42.1530	2.8512	-0.7080	13.846	-0.051	0.000
17	45.9	42.1530	2.8512	3.7103	13.846	0.268	0.002
18	35.8	42.5775	1.6610	-6.7947	14.038	-0.484	0.002
19	22.4	42.5775	1.6610	-20.1810	14.038	-1.438	0.014
20	40.4	43.0020	2.2307	-2.5532	13.959	-0.183	0.000
21	64.5	42.5775	1.6610	21.9563	14.038	1.564	0.017
22	46.9	43.0020	2.2307	3.8936	13.959	0.279	0.001
23	36.2	43.0020	2.2307	-6.8258	13.959	-0.489	0.003
24	44.3	43.0020	2.2307	1.3289	13.959	0.095	0.000
25	32.2	42.5775	1.6610	-10.3699	14.038	-0.739	0.004
26	31.4	42.1530	2.8512	-10.7170	13.846	-0.774	0.013
27	58.3	42.5775	1.6610	15.7676	14.038	1.123	0.009
28	40.9	43.0020	2.2307	-2.0850	13.959	-0.149	0.000
29	41.0	43.0020	2.2307	-1.9865	13.959	-0.142	0.000
30	28.0	42.5775	1.6610	-14.5517	14.038	-1.037	0.008
31	35.3	42.1530	2.8512	-6.9005	13.846	-0.498	0.005
32	23.8	42.5775	1.6610	-18.7735	14.038	-1.337	0.013
33	52.1	43.0020	2.2307	9.0749	13.959	0.650	0.005

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
34	53.4	43.0020	2.2307	10.3690	13.959	0.743	0.007
35	45.8	43.0020	2.2307	2.8097	13.959	0.201	0.001
36	21.9	42.5775	1.6610	-20.7062	14.038	-1.475	0.015
37	31.1	42.1530	2.8512	-11.0808	13.846	-0.800	0.014
38	28.7	42.1530	2.8512	-13.4106	13.846	-0.969	0.020
39	36.5	43.0020	2.2307	-6.4783	13.959	-0.464	0.003
40	36.5	43.0020	2.2307	-6.5305	13.959	-0.468	0.003
41	39.2	42.5775	1.6610	-3.3364	14.038	-0.238	0.000
42	45.3	42.5775	1.6610	2.7506	14.038	0.196	0.000
43	26.7	42.5775	1.6610	-15.8430	14.038	-1.129	0.009
44	54.9	42.5775	1.6610	12.2734	14.038	0.874	0.005
45	37.1	43.0020	2.2307	-5.8651	13.959	-0.420	0.002
46	34.1	43.0020	2.2307	-8.8622	13.959	-0.635	0.005
47	30.3	43.0020	2.2307	-12.6887	13.959	-0.909	0.011
48	40.1	42.1530	2.8512	-2.0470	13.846	-0.148	0.000
49	29.9	42.5775	1.6610	-12.6532	14.038	-0.901	0.006
50	40.7	43.0020	2.2307	-2.3097	13.959	-0.165	0.000
51	59.6	43.0020	2.2307	16.6408	13.959	1.192	0.018
52	30.5	43.0020	2.2307	-12.5512	13.959	-0.899	0.010
53	37.8	43.0020	2.2307	-5.1614	13.959	-0.370	0.002
54	41.5	43.0020	2.2307	-1.4985	13.959	-0.107	0.000
55	60.8	43.0020	2.2307	17.7541	13.959	1.272	0.021
56	63.0	43.0020	2.2307	20.0036	13.959	1.433	0.026
57	49.5	43.0020	2.2307	6.5099	13.959	0.466	0.003
58	50.8	42.1530	2.8512	8.6754	13.846	0.627	0.008
59	39.3	42.5775	1.6610	-3.3183	14.038	-0.236	0.000
60	39.7	43.0020	2.2307	-3.2986	13.959	-0.236	0.001
61	55.3	43.0020	2.2307	12.3311	13.959	0.883	0.010
62	42.0	42.1530	2.8512	-0.1541	13.846	-0.011	0.000
63	40.6	42.1530	2.8512	-1.5928	13.846	-0.115	0.000
64	68.2	42.1530	2.8512	26.0829	13.846	1.884	0.075
65	74.5	42.1530	2.8512	32.3200	13.846	2.334	0.116
66	72.8	42.1530	2.8512	30.6488	13.846	2.214	0.104

The REG Procedure
Model: MODEL1
Dependent Variable: rating

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
67	31.2	42.5775	1.6610	-11.3474	14.038	-0.808	0.005
68	53.1	42.1530	2.8512	10.9783	13.846	0.793	0.013
69	59.4	42.5775	1.6610	16.7865	14.038	1.196	0.010
70	38.8	43.0020	2.2307	-4.1623	13.959	-0.298	0.001
71	28.6	43.0020	2.2307	-14.4092	13.959	-1.032	0.014
72	46.7	43.0020	2.2307	3.6568	13.959	0.262	0.001
73	39.1	43.0020	2.2307	-3.8958	13.959	-0.279	0.001
74	27.8	42.5775	1.6610	-14.8242	14.038	-1.056	0.008
75	49.8	42.1530	2.8512	7.6345	13.846	0.551	0.006
76	51.6	42.1530	2.8512	9.4392	13.846	0.682	0.010
77	36.2	42.1530	2.8512	-5.9654	13.846	-0.431	0.004

The REG Procedure
Model: MODEL1
Dependent Variable: rating

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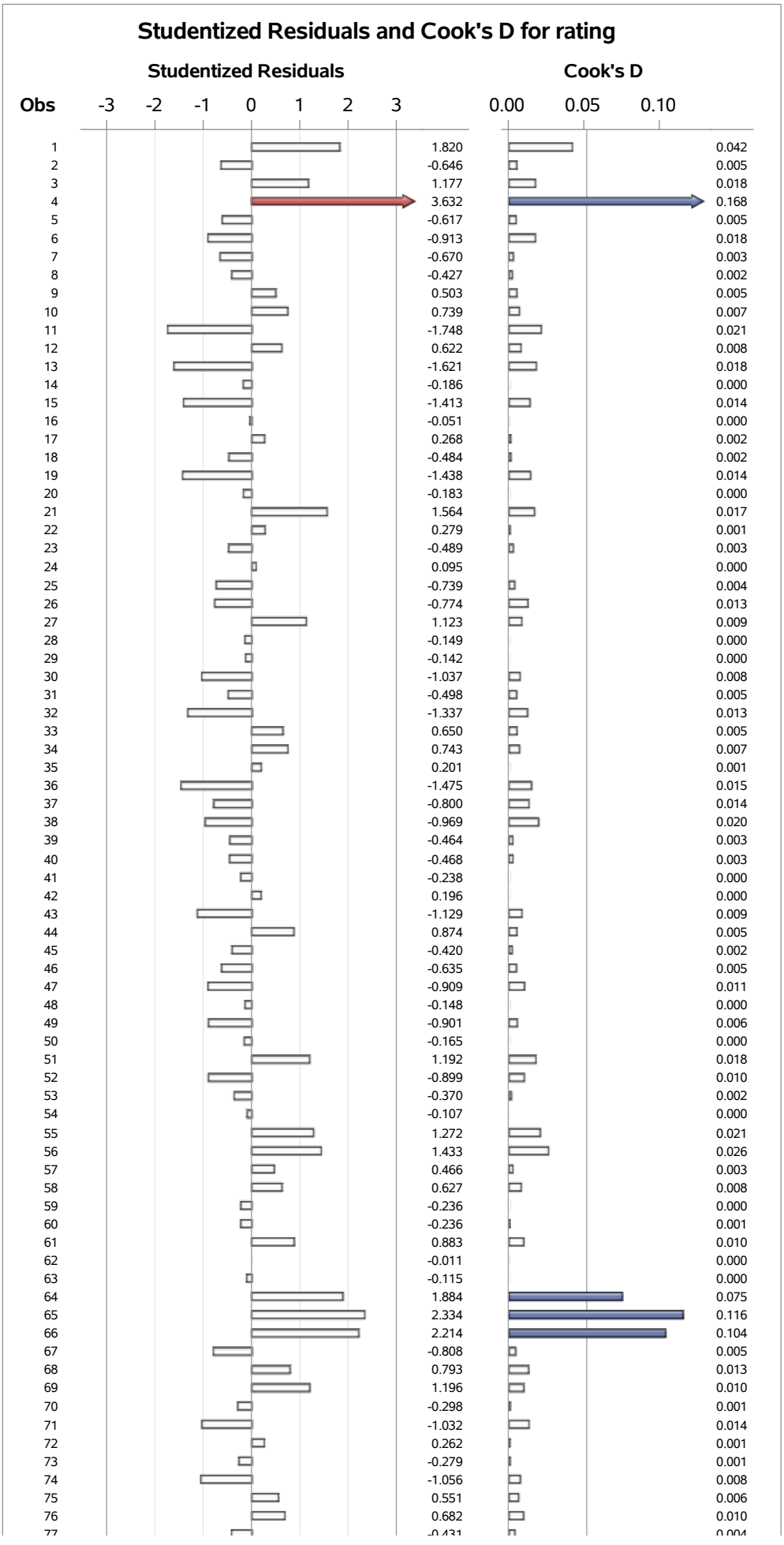
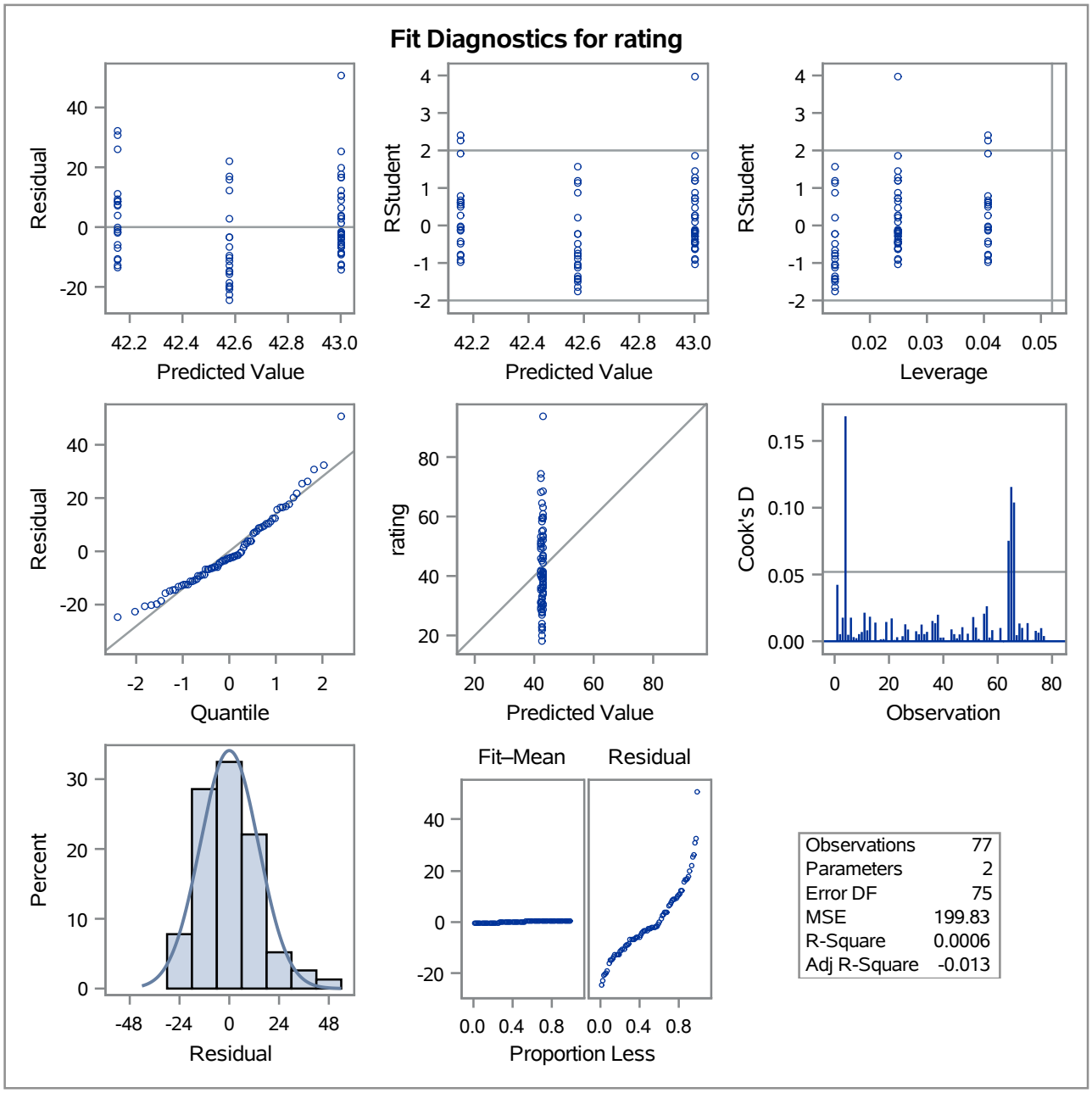
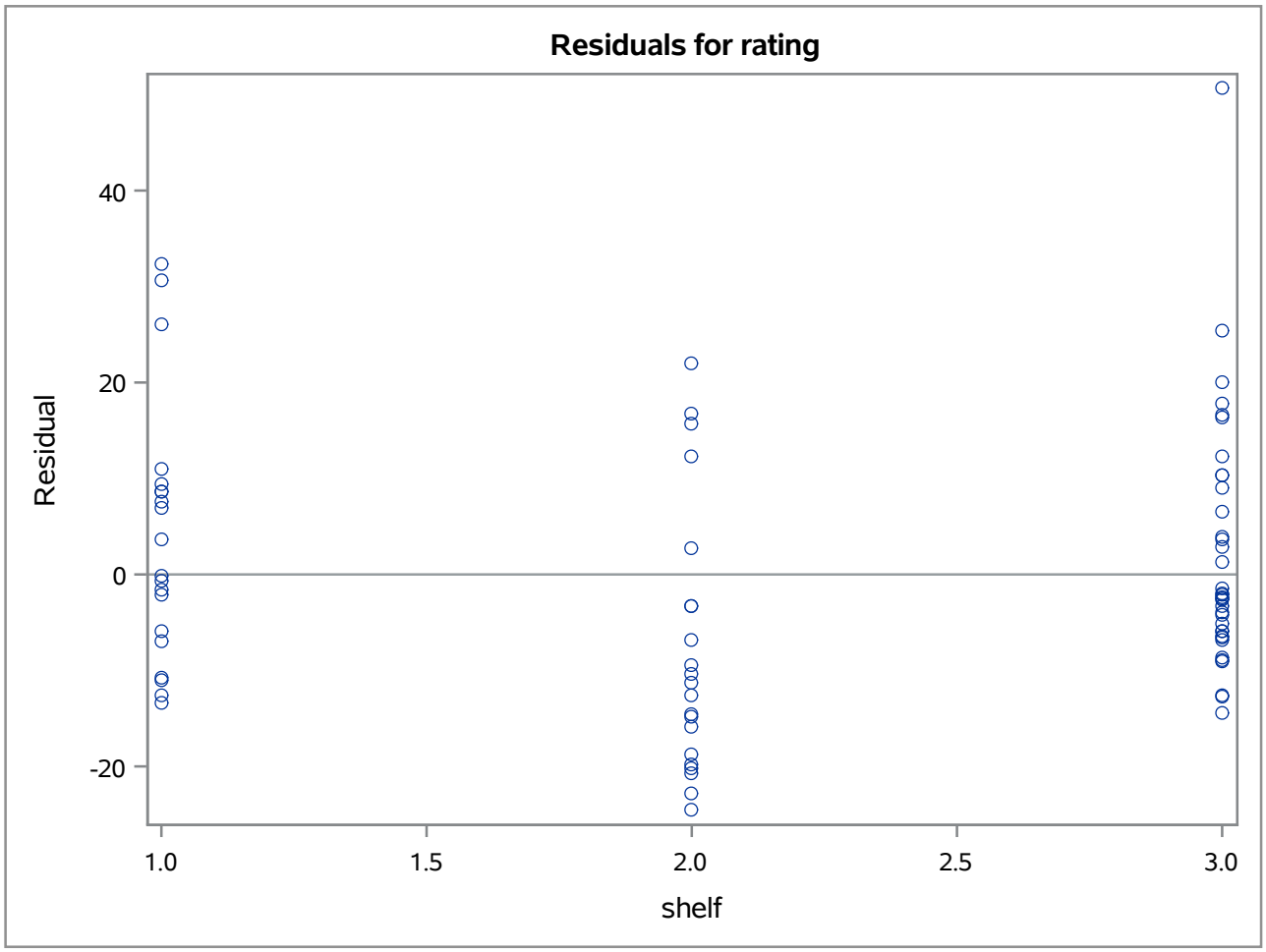
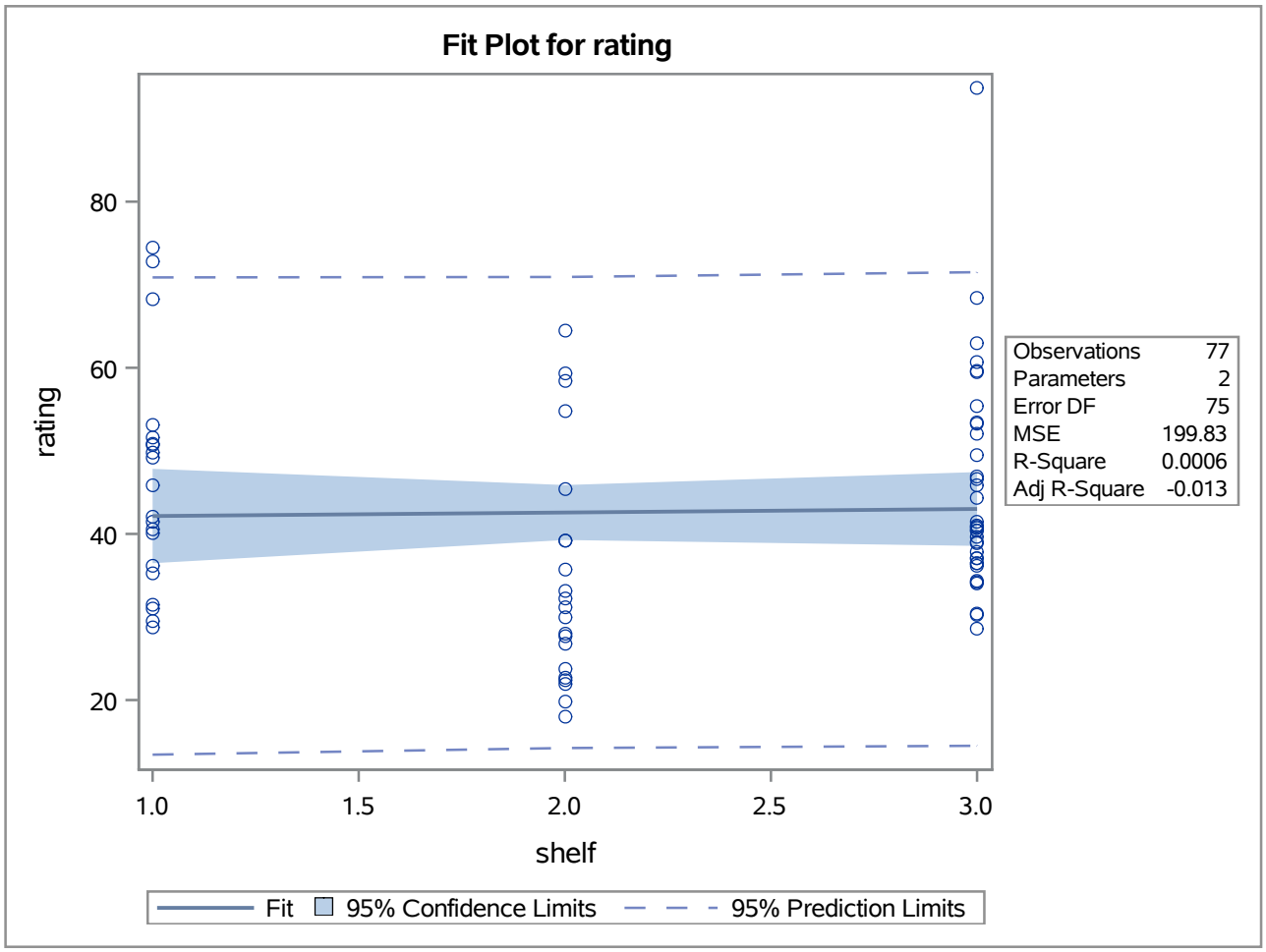


The REG Procedure
Model: MODEL1
Dependent Variable: rating

Sum of Residuals	0
Sum of Squared Residuals	14987
Predicted Residual SS (PRESS)	15775



The REG Procedure
Model: MODEL1



The REG Procedure
Model: MODEL1