The CONTENTS Procedure

Data Set Name	WORK.IMPORT	**Observations**	30
Member Type	DATA	**Variables**	7
Engine	V9	**Indexes**	0
Created	04/06/2020 12:50:49	**Observation Length**	56
Last Modified	04/06/2020 12:50:49	**Deleted Observations**	0
Protection		**Compressed**	NO
Data Set Type		**Sorted**	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	2334
Obs in First Data Page	30
Number of Data Set Repairs	0
Filename	/saswork/SAS_work653900005185_odaws01-apse1.oda.sas.com/SAS_workD26400005185_odaws01-apse1.oda.sas.com/import.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	1074801965
Access Permission	rw-r--r--
Owner Name	u48510292
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes						
#	Variable	Type	Len	Format	Informat	Label
5	Discount	Num	8	BEST.		Discount
1	Order_ID	Num	8	BEST.		Order_ID
2	Products	Char	8	$8.	$8.	Products
6	Profit	Num	8	NLMNY15.1		Profit
4	Quantity	Num	8	BEST.		Quantity
3	Sales	Num	8	NLMNY15.1		Sales
7	Shipping_Cost	Num	8	NLMNY15.1		Shipping_Cost

The MEANS Procedure

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Order_ID	Order_ID	30	110015.50	8.8034084	110001.00	110030.00
Sales	Sales	30	152.9666667	63.1759903	33.0000000	250.0000000
Quantity	Quantity	30	3.1666667	1.2340942	1.0000000	5.0000000
Discount	Discount	30	0.0256667	0.0154659	0.0100000	0.0500000
Profit	Profit	30	72.1063333	44.6008984	3.2500000	135.6000000
Shipping_Cost	Shipping_Cost	30	7.2106333	4.4600898	0.3250000	13.5600000

The MEANS Procedure

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Order_ID	Order_ID	30	110015.50	8.8034084	110001.00	110030.00
Sales	Sales	30	152.9666667	63.1759903	33.0000000	250.0000000
Quantity	Quantity	30	3.1666667	1.2340942	1.0000000	5.0000000
Discount	Discount	30	0.0256667	0.0154659	0.0100000	0.0500000
Profit	Profit	30	72.1063333	44.6008984	3.2500000	135.6000000
Shipping_Cost	Shipping_Cost	30	7.2106333	4.4600898	0.3250000	13.5600000
Total_Sales		30	491.1000000	265.3040351	33.0000000	1100.00

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Order_ID	Order_ID	30	110015.50	8.8034084	110001.00	110030.00
Sales	Sales	30	152.9666667	63.1759903	33.0000000	250.0000000
Quantity	Quantity	30	3.1666667	1.2340942	1.0000000	5.0000000
Discount	Discount	30	0.0256667	0.0154659	0.0100000	0.0500000
Profit	Profit	30	72.1063333	44.6008984	3.2500000	135.6000000
Shipping_Cost	Shipping_Cost	30	7.2106333	4.4600898	0.3250000	13.5600000
Total_Sales		30	491.1000000	265.3040351	33.0000000	1100.00

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Number of Observations Read	30
Number of Observations Used	30

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	870480	870480	20.82	<.0001
Error	28	1170721	41811		
Corrected Total	29	2041201			

Root MSE	204.47849	R-Square	0.4265
Dependent Mean	491.10000	Adj R-Sq	0.4060
Coeff Var	41.63683		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	46.53585	104.33962	0.45	0.6590
Quantity	Quantity	1	140.38868	30.76807	4.56	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Fit Diagnostics for Total_Sales

Observations	30
Parameters	2
Error DF	28
MSE	41811
R-Square	0.4265
Adj R-Square	0.406

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Residuals for Total_Sales

Fit Plot for Total_Sales

Observations	30
Parameters	2
Error DF	28
MSE	41811
R-Square	0.4265
Adj R-Square	0.406

Fit — 95% Confidence Limits — — 95% Prediction Limits
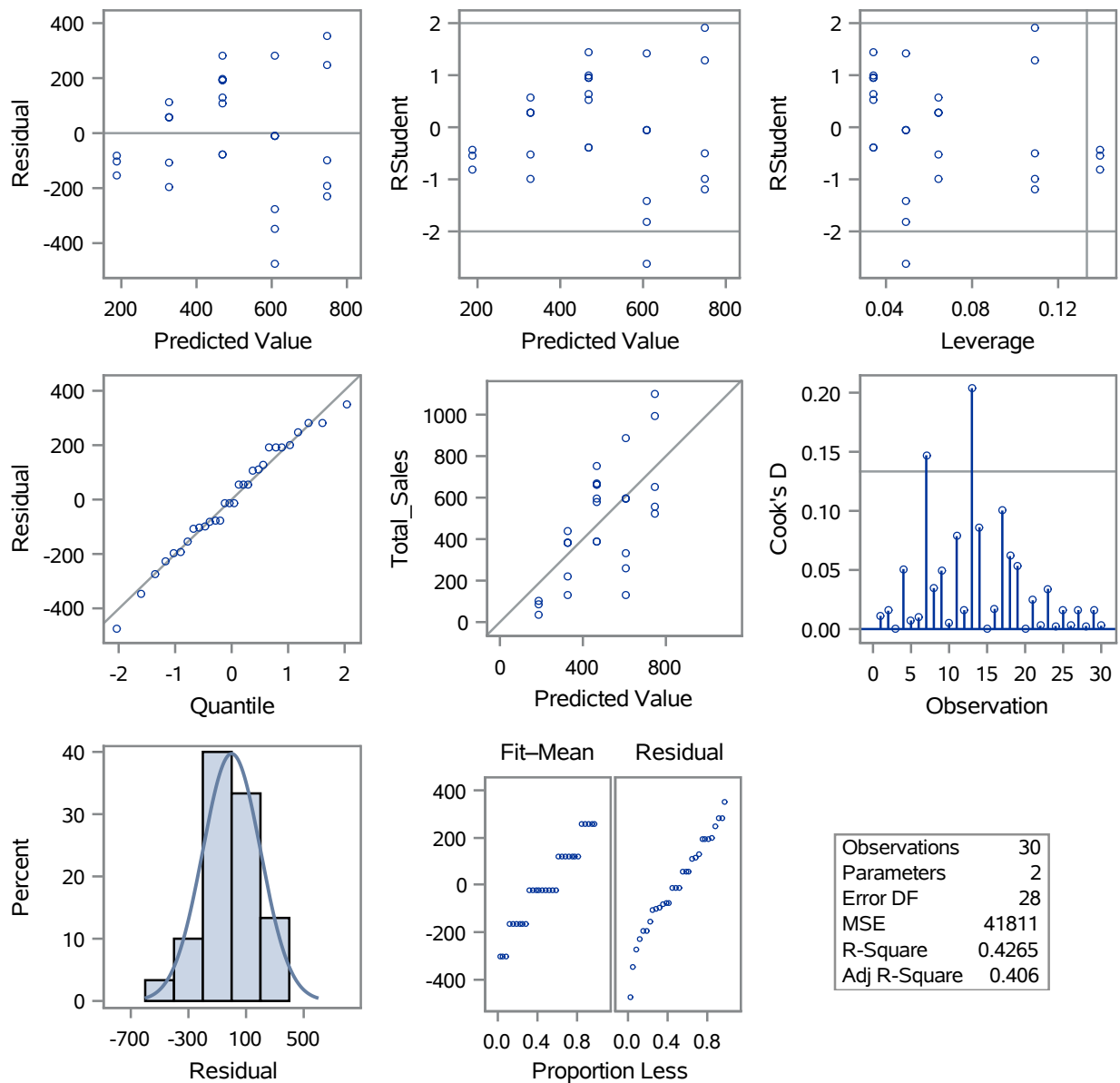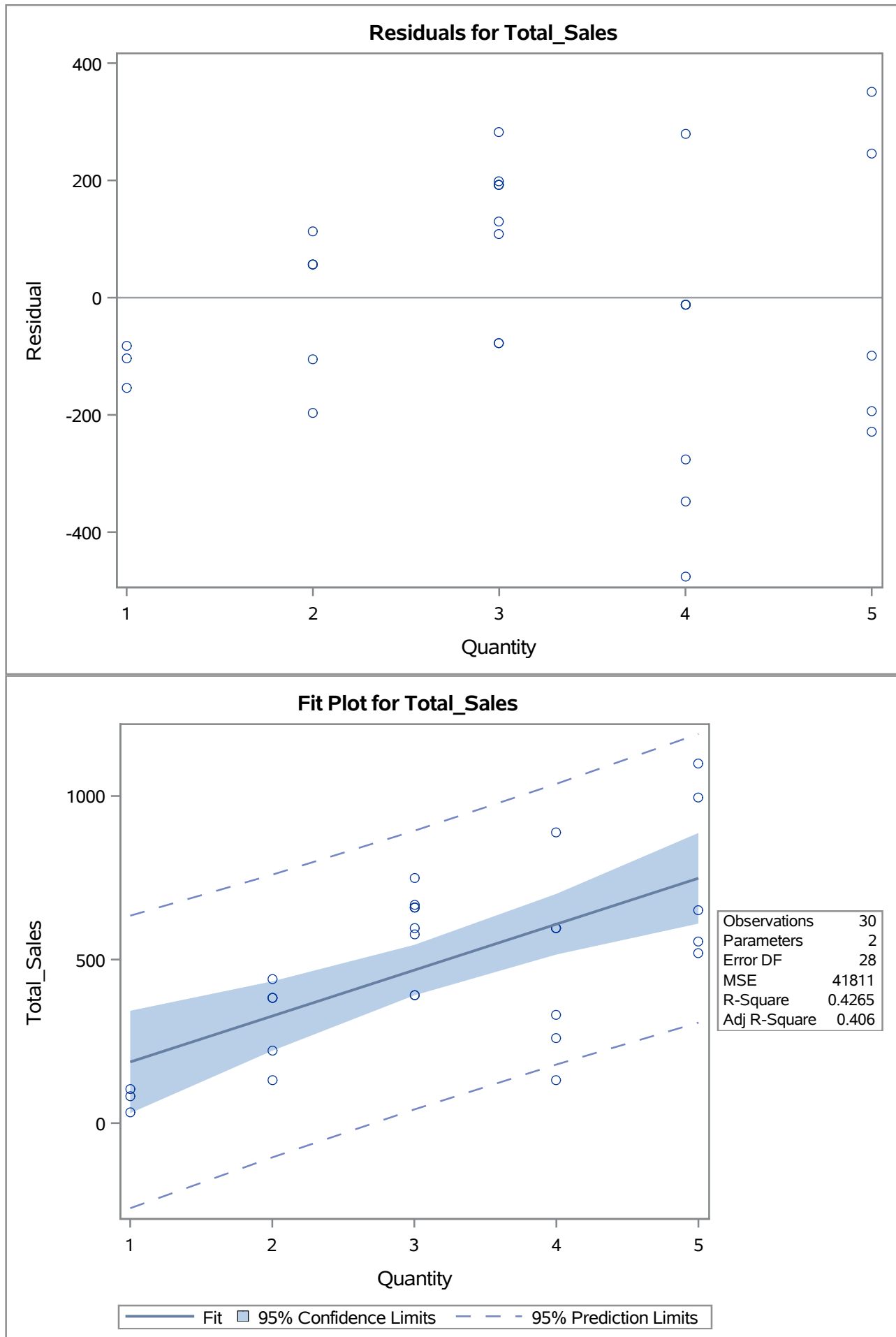
The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Number of Observations Read	30
Number of Observations Used	30

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	618834	618834	12.18	0.0016
Error	28	1422366	50799		
Corrected Total	29	2041201			

Root MSE	225.38590	R-Square	0.3032
Dependent Mean	491.10000	Adj R-Sq	0.2783
Coeff Var	45.89409		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	254.93367	79.19411	3.22	0.0032
Profit	Profit	1	3.27525	0.93839	3.49	0.0016

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Fit Diagnostics for Total_Sales

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Residuals for Total_Sales

Fit Plot for Total_Sales

Observations	30
Parameters	2
Error DF	28
MSE	50799
R-Square	0.3032
Adj R-Square	0.2783

Fit   95% Confidence Limits   95% Prediction Limits
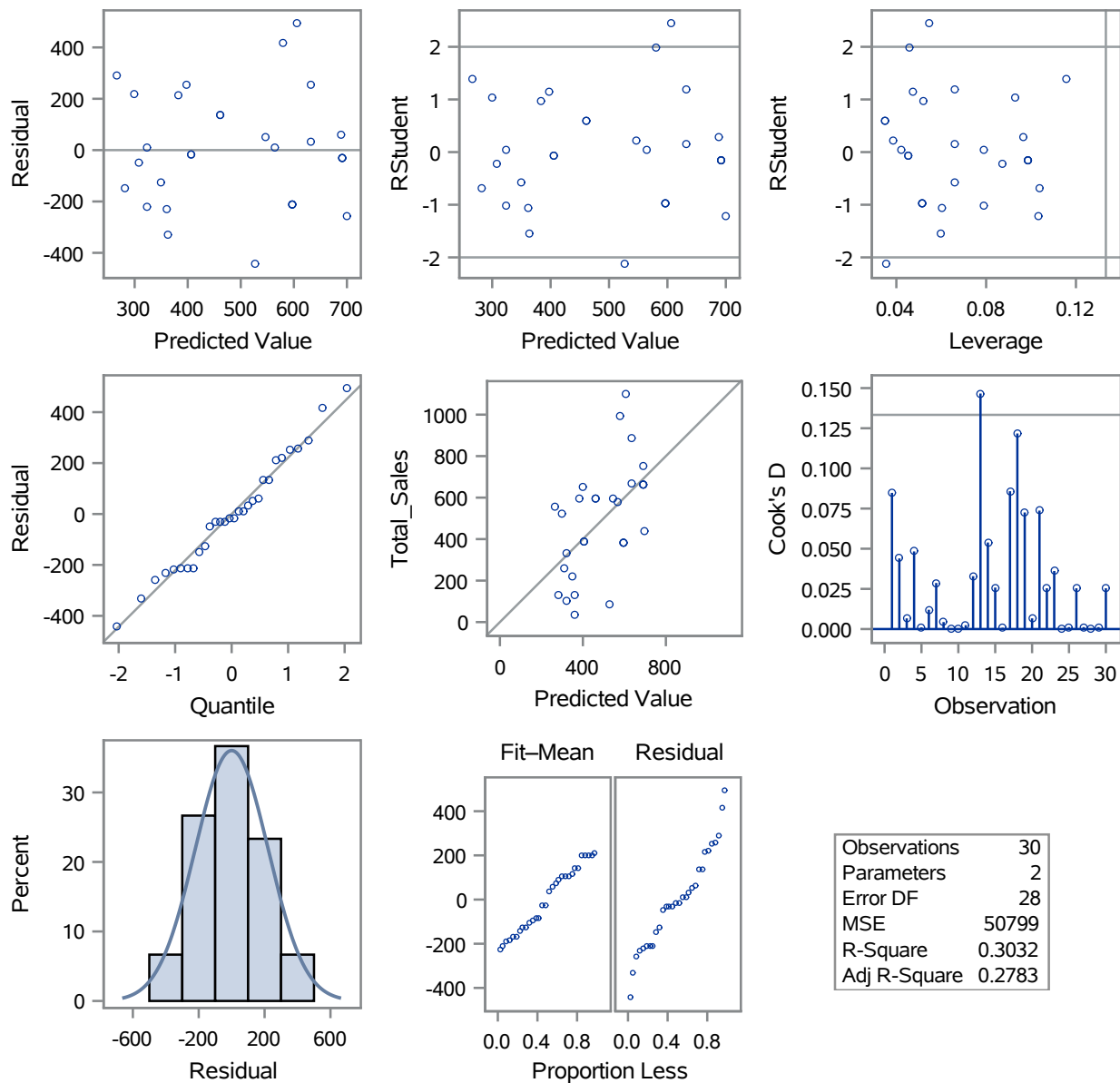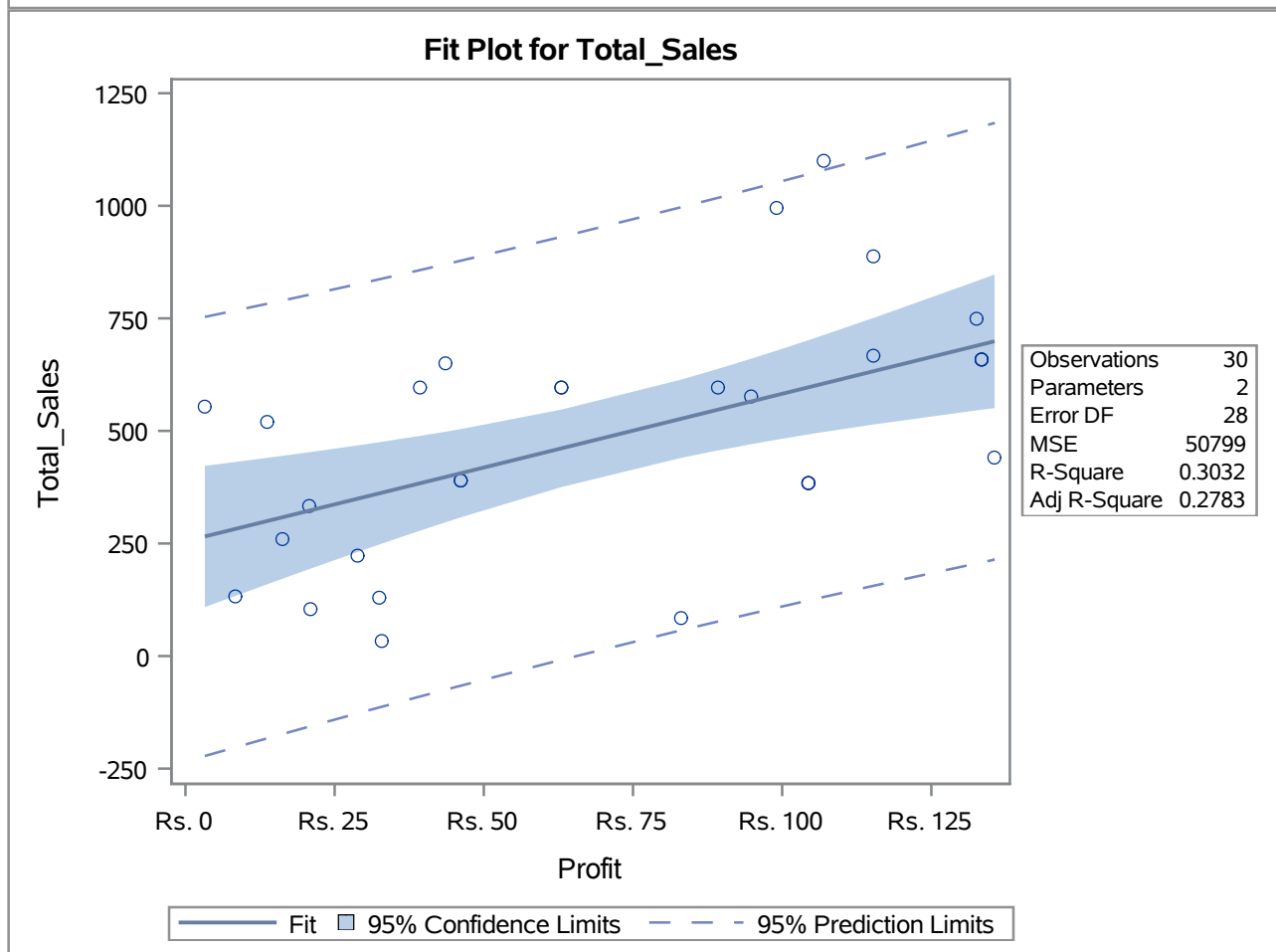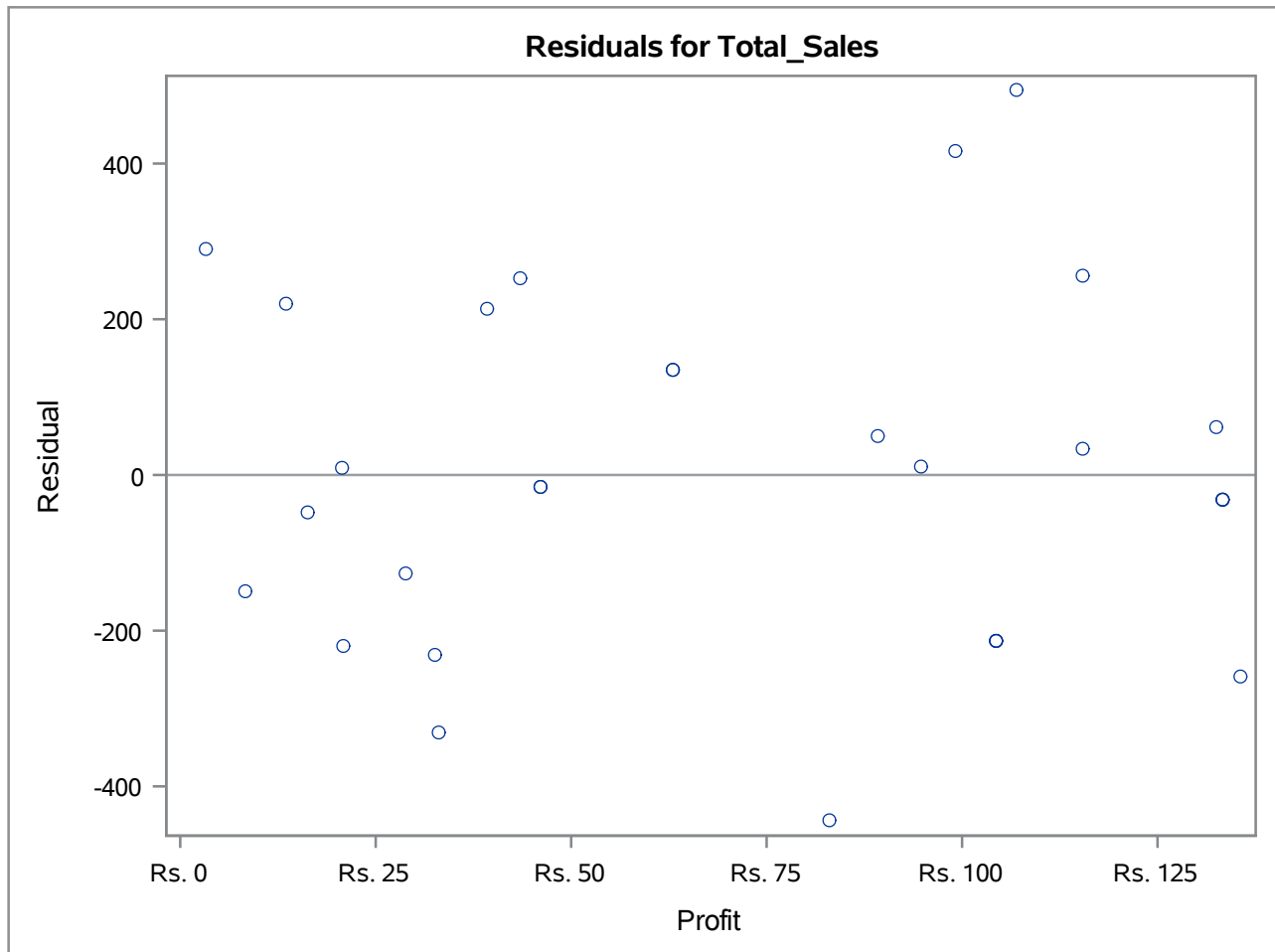
The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Number of Observations Read	30
Number of Observations Used	30

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2954.40591	2954.40591	0.04	0.8418
Error	28	2038246	72795		
Corrected Total	29	2041201			

Root MSE	269.80458	R-Square	0.0014
Dependent Mean	491.10000	Adj R-Sq	-0.0342
Coeff Var	54.93883		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	507.85055	96.64267	5.25	<.0001
Discount	Discount	1	-652.61893	3239.46955	-0.20	0.8418

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Fit Diagnostics for Total_Sales

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Residuals for Total_Sales

Fit Plot for Total_Sales

Observations	30
Parameters	2
Error DF	28
MSE	72795
R-Square	0.0014
Adj R-Square	-0.034

Fit — 95% Confidence Limits — — 95% Prediction Limits
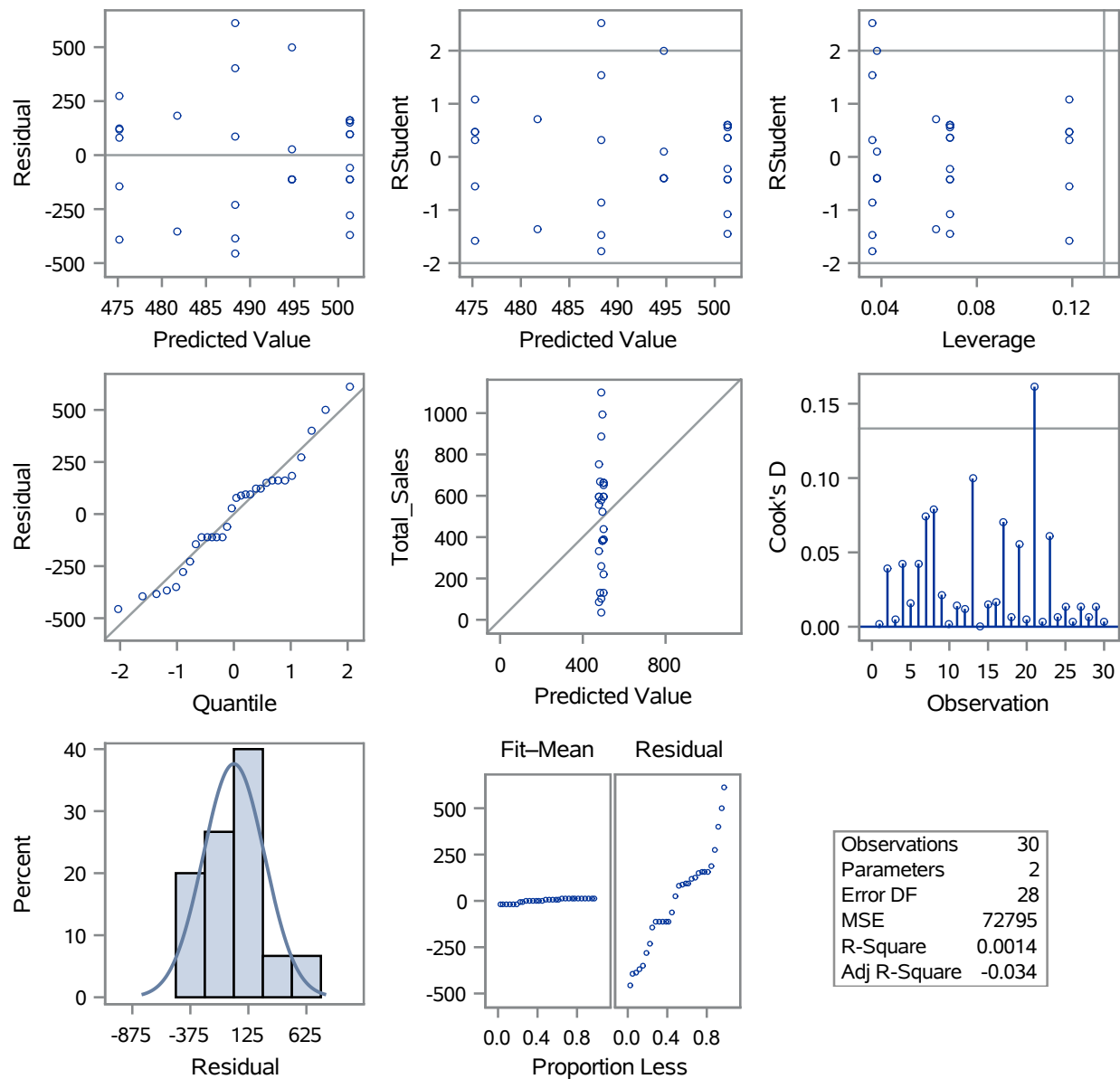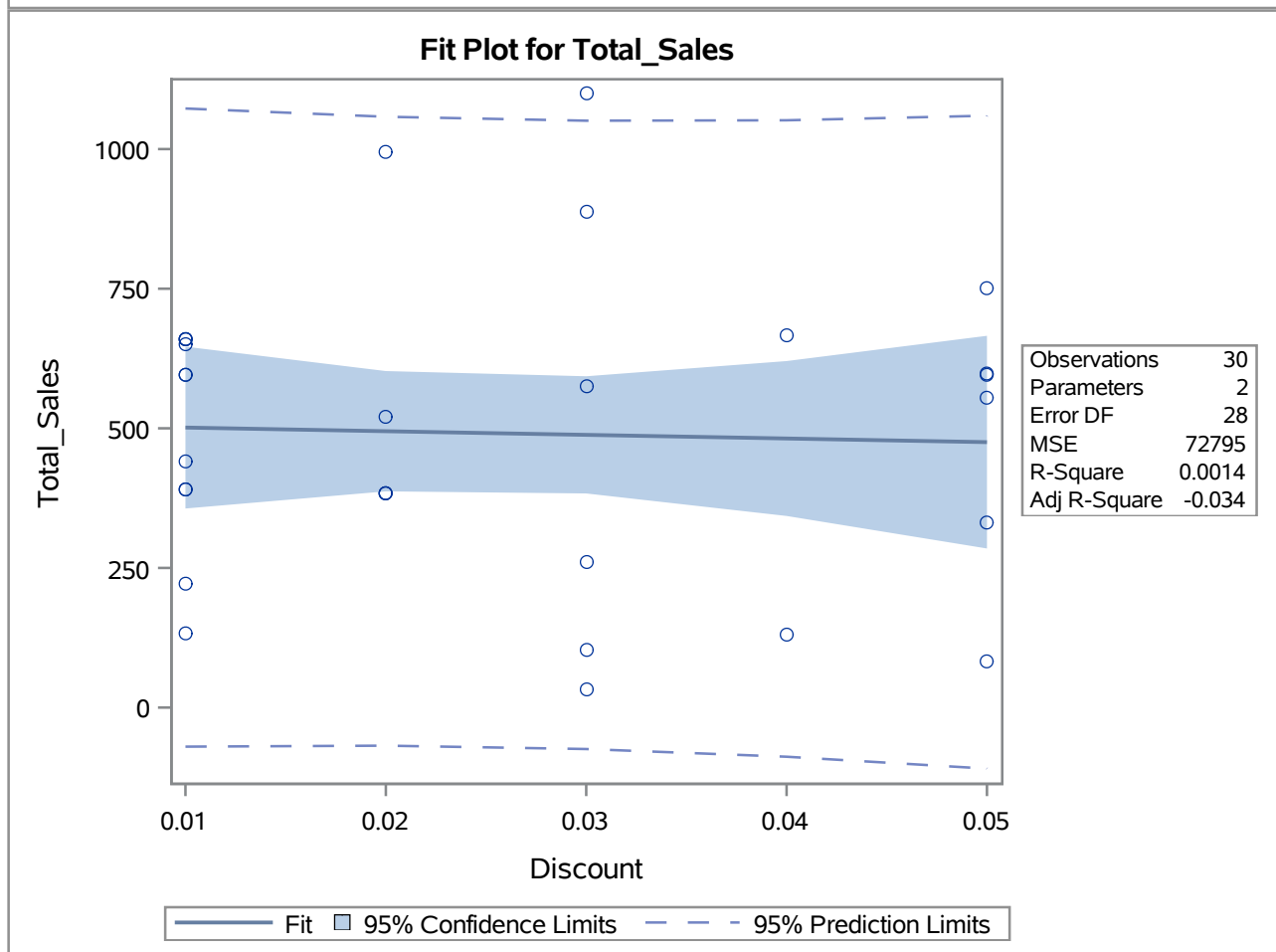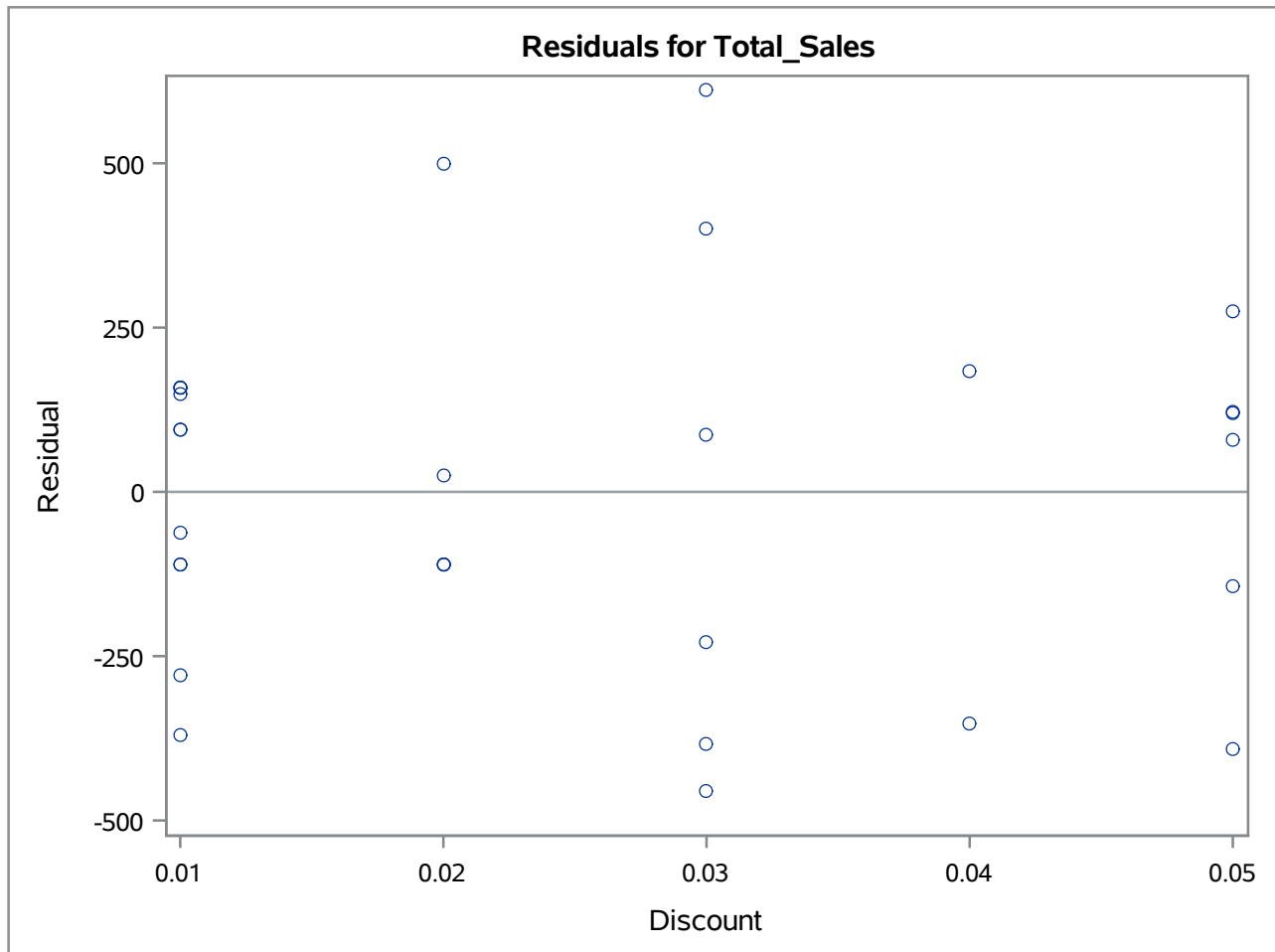
The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Number of Observations Read	30
Number of Observations Used	30

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1809545	904772	105.45	<.0001
Error	27	231656	8579.85375		
Corrected Total	29	2041201			

Root MSE	92.62750	R-Square	0.8865
Dependent Mean	491.10000	Adj R-Sq	0.8781
Coeff Var	18.86123		

Note: Model is not full rank. Least-squares solutions for the parameters are not unique. Some statistics will be misleading. A reported DF of 0 or B means that the estimate is biased.
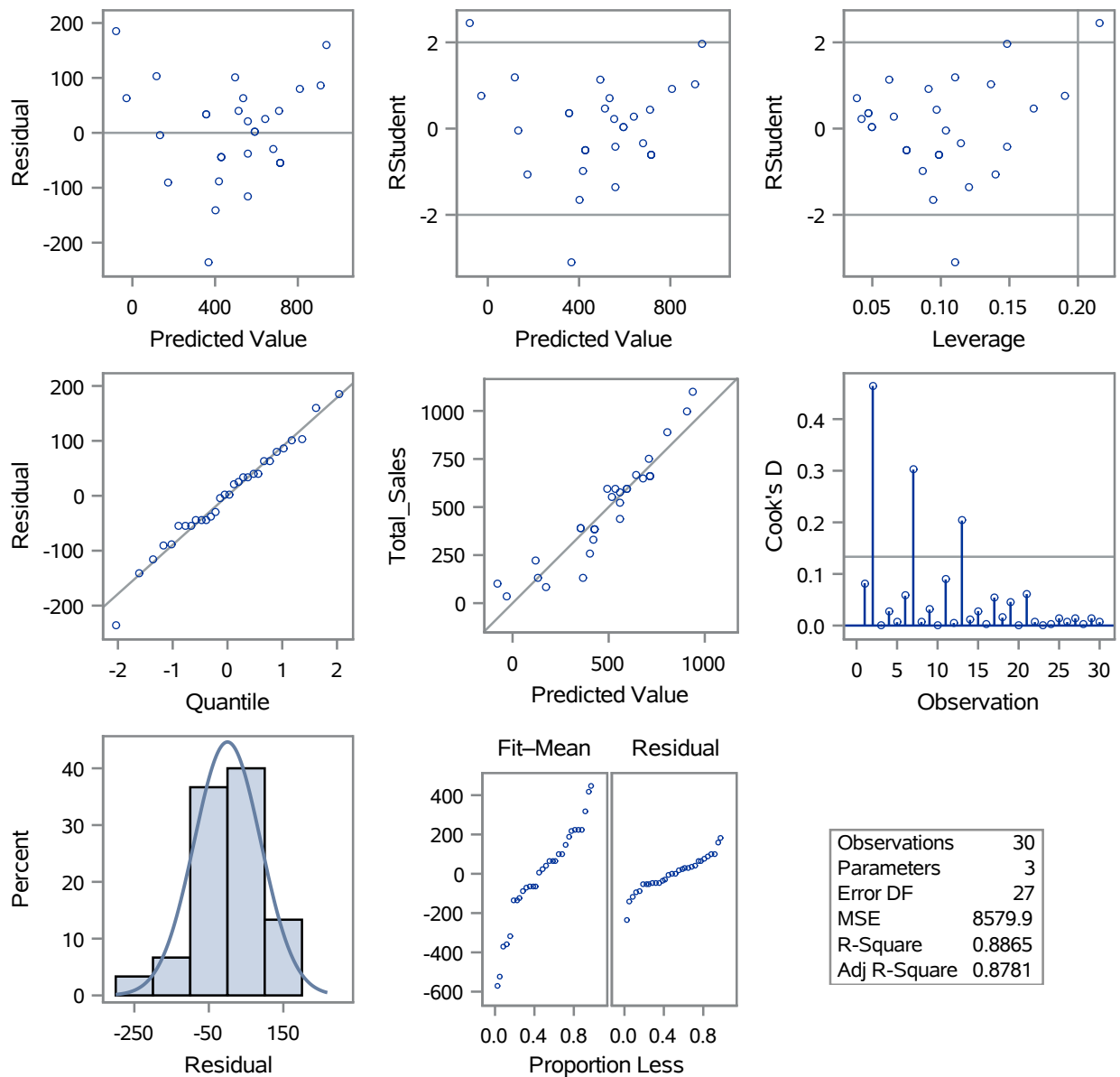
Note: The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

Shipping_Cost =	0.1 * Profit

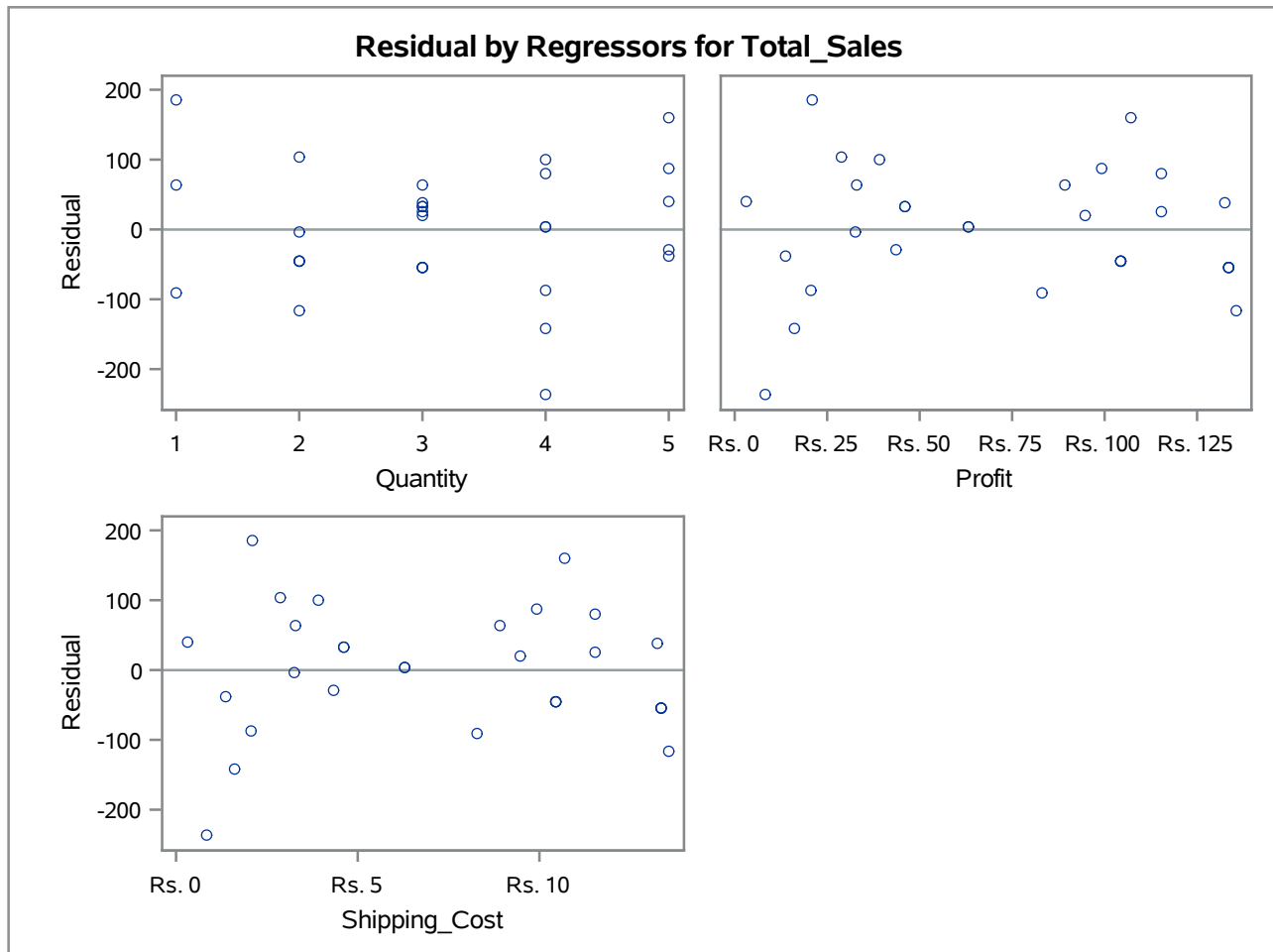| Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	-333.04421	59.58531	-5.59	<.0001
Quantity	Quantity	1	166.88150	14.16593	11.78	<.0001
Profit	Profit	B	4.10070	0.39197	10.46	<.0001
Shipping_Cost	Shipping_Cost	0	0	.	.	.

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Fit Diagnostics for Total_Sales

Observations	30
Parameters	3
Error DF	27
MSE	8579.9
R-Square	0.8865
Adj R-Square	0.8781

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Residual by Regressors for Total_Sales

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Number of Observations Read	30
Number of Observations Used	30

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1823605	607868	72.63	<.0001
Error	26	217595	8369.04811		
Corrected Total	29	2041201			

Root MSE	91.48250	R-Square	0.8934
Dependent Mean	491.10000	Adj R-Sq	0.8811
Coeff Var	18.62808		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	-378.71173	68.58927	-5.52	<.0001
Quantity	Quantity	1	167.95517	14.01532	11.98	<.0001
Profit	Profit	1	4.17438	0.39127	10.67	<.0001
Discount	Discount	1	1439.79360	1110.79329	1.30	0.2063

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales

Fit Diagnostics for Total_Sales

Observations	30
Parameters	4
Error DF	26
MSE	8369
R-Square	0.8934
Adj R-Square	0.8811

The REG Procedure
Model: MODEL1
Dependent Variable: Total_Sales
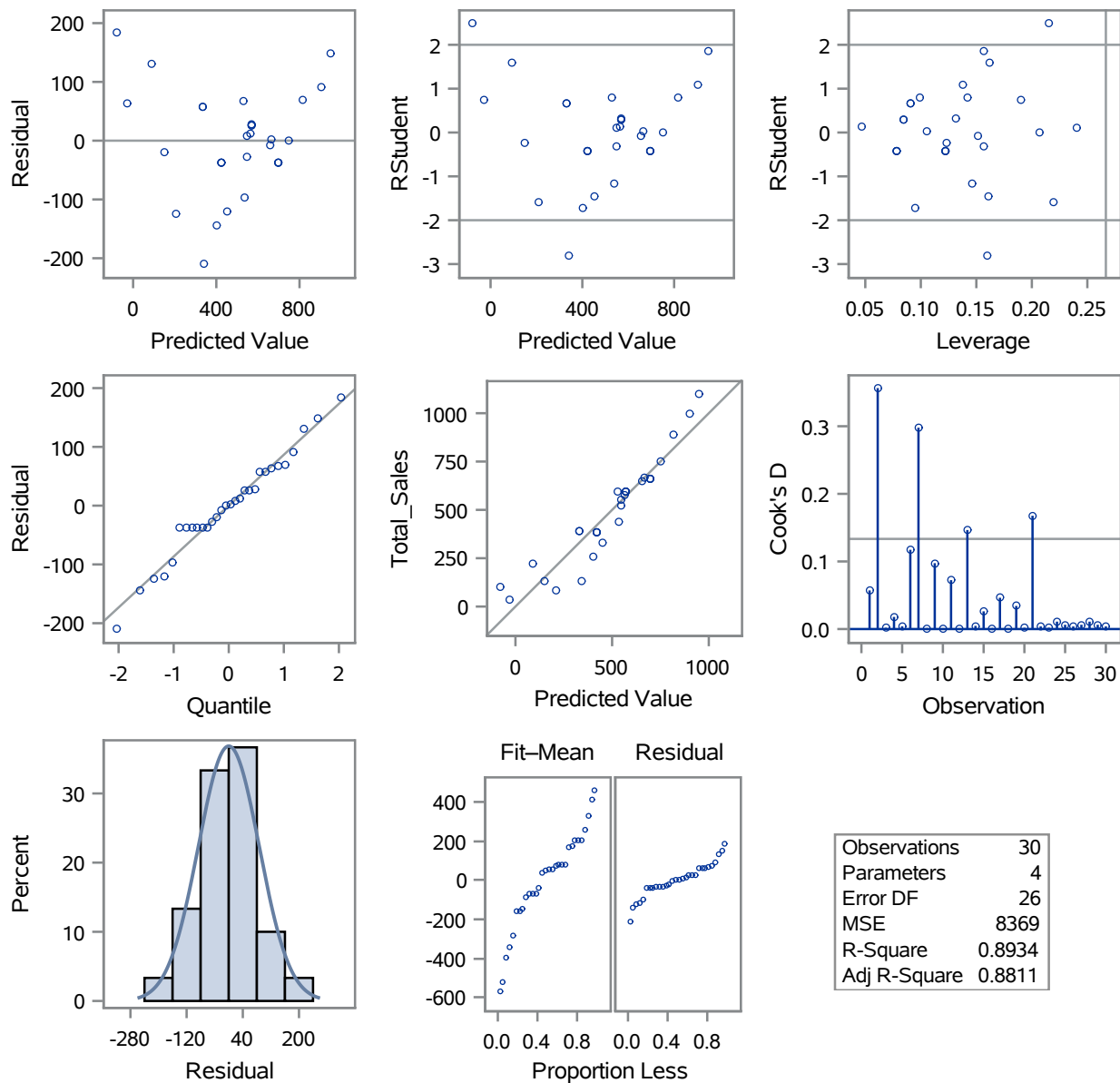
Residual by Regressors for Total_Sales

The TRANSREG Procedure

Box-Cox Analysis for Total_Sales
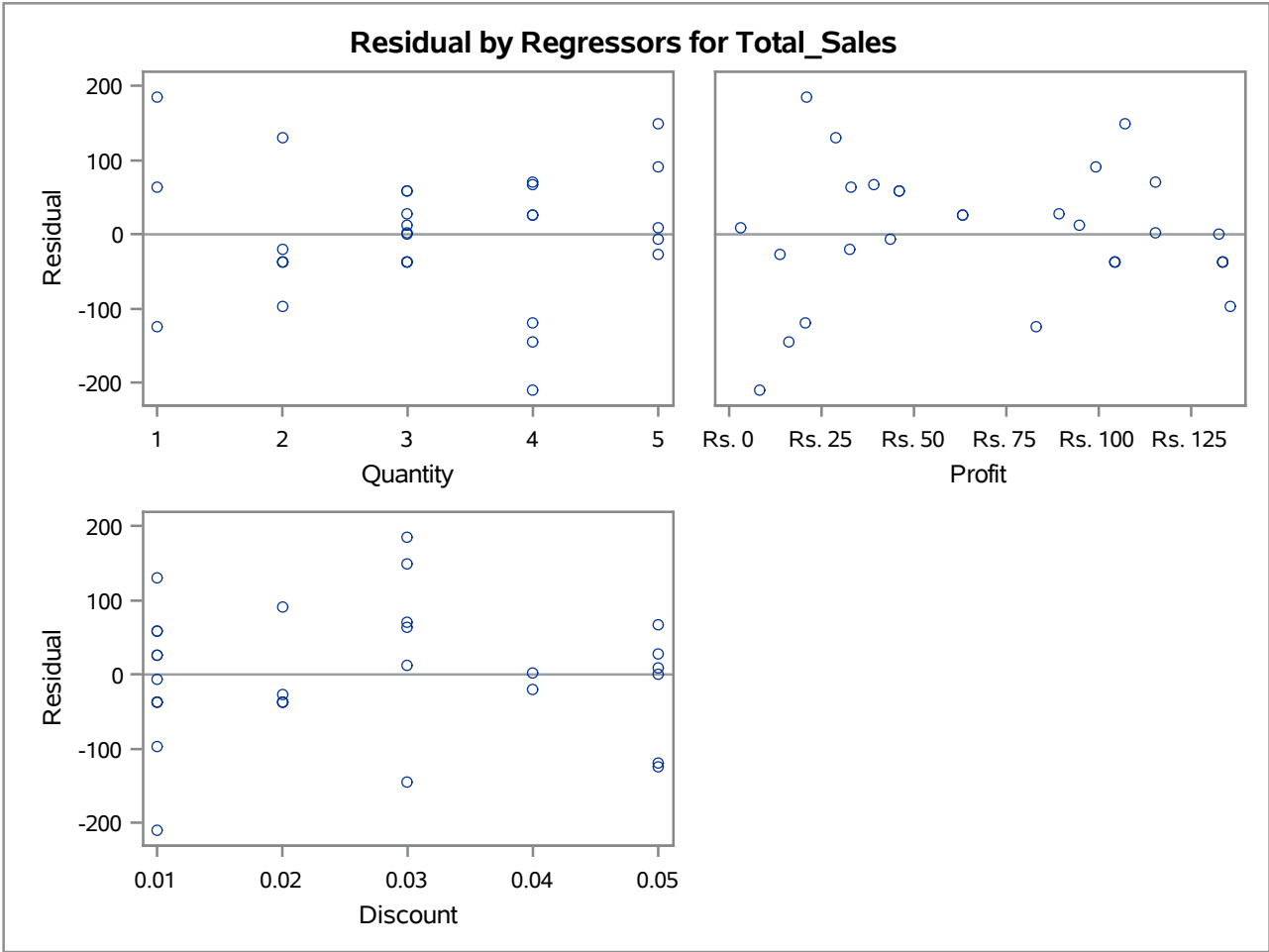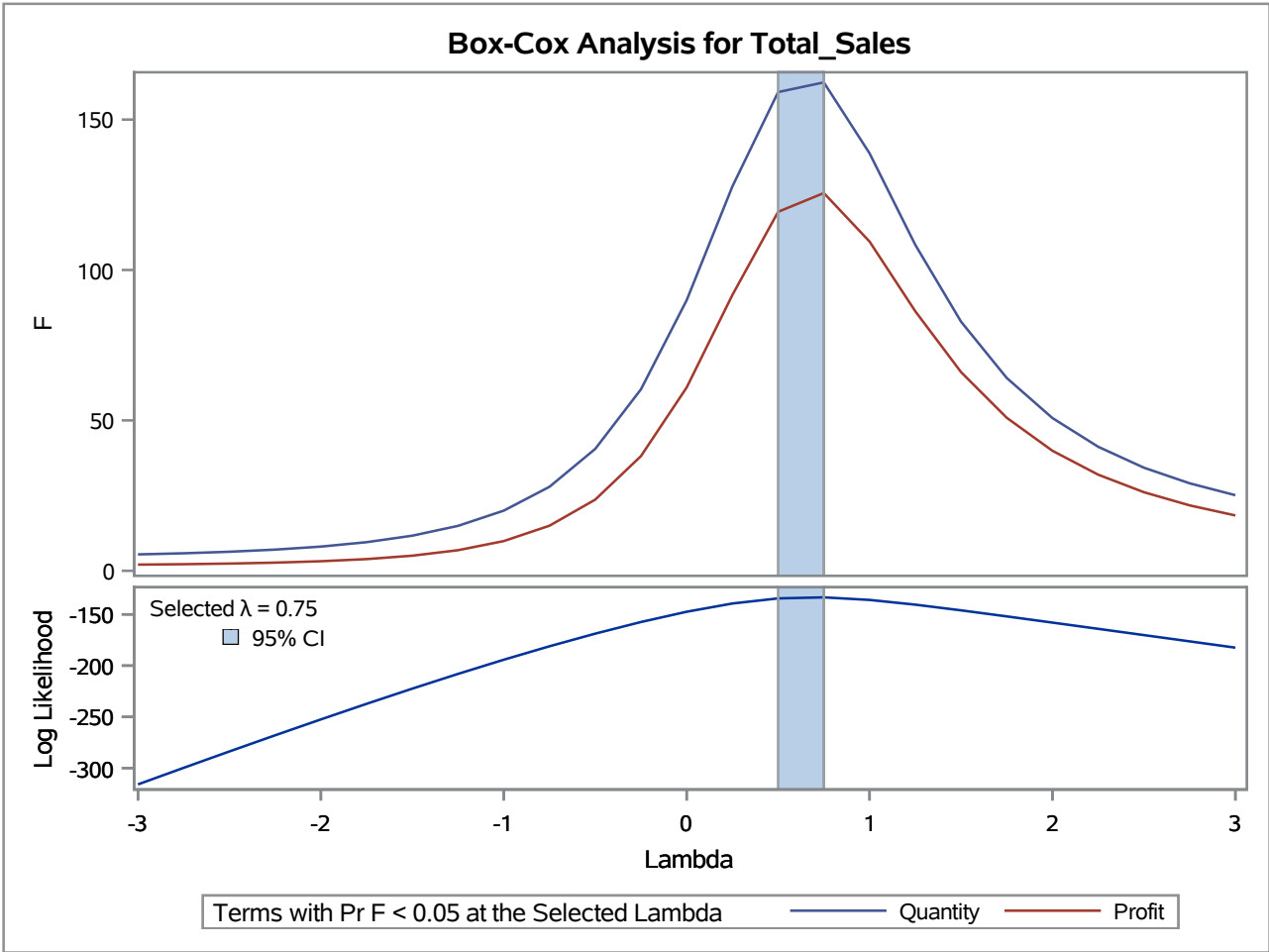
Dependent Variable BoxCox(Total_Sales)

Number of Observations Read	30
Number of Observations Used	30

The TRANSREG Procedure

The TRANSREG Procedure Hypothesis Tests for BoxCox(Total_Sales)

Univariate ANOVA Table Based on the Usual Degrees of Freedom					
Source	DF	Sum of Squares	Mean Square	F Value	Liberal p
Model	2	89620.20	44810.10	122.35	>= <.0001
Error	27	9888.45	366.24		
Corrected Total	29	99508.64			
The above statistics are not adjusted for the fact that the dependent variable was transformed and so are generally liberal.					

Root MSE	19.13737	**R-Square**	0.9006
Dependent Mean	133.38822	**Adj R-Sq**	0.8933
Coeff Var	14.34712	**Lambda**	0.7500