

## The MEANS Procedure

Quantity=1

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sales	Sales	3	73.3333333	36.4737348	33.0000000	104.0000000
Profit	Profit	3	45.6266667	32.9286825	20.8800000	83.0000000
Discount	Discount	3	0.0366667	0.0115470	0.0300000	0.0500000
Shipping_cost	Shipping Cost	3	4.5626667	3.2928683	2.0880000	8.3000000

Quantity=2

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sales	Sales	6	162.0000000	60.1232068	65.0000000	220.0000000
Profit	Profit	6	84.9733333	43.8111432	28.7800000	135.6000000
Discount	Discount	6	0.0200000	0.0109545	0.0100000	0.0400000
Shipping_cost	Shipping Cost	6	8.4973333	4.3811143	2.8780000	13.5600000

Quantity=3

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sales	Sales	9	198.1111111	41.8582263	130.0000000	250.0000000
Profit	Profit	9	102.6811111	36.2804791	46.1000000	133.4000000
Discount	Discount	9	0.0244444	0.0181046	0.0100000	0.0500000
Shipping_cost	Shipping Cost	9	10.2681111	3.6280479	4.6100000	13.3400000

Quantity=4

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sales	Sales	7	121.4285714	64.3890704	33.0000000	222.0000000
Profit	Profit	7	46.5557143	37.3793583	8.2500000	115.3600000
Discount	Discount	7	0.0271429	0.0179947	0.0100000	0.0500000
Shipping_cost	Shipping Cost	7	4.6555714	3.7379358	0.8250000	11.5360000

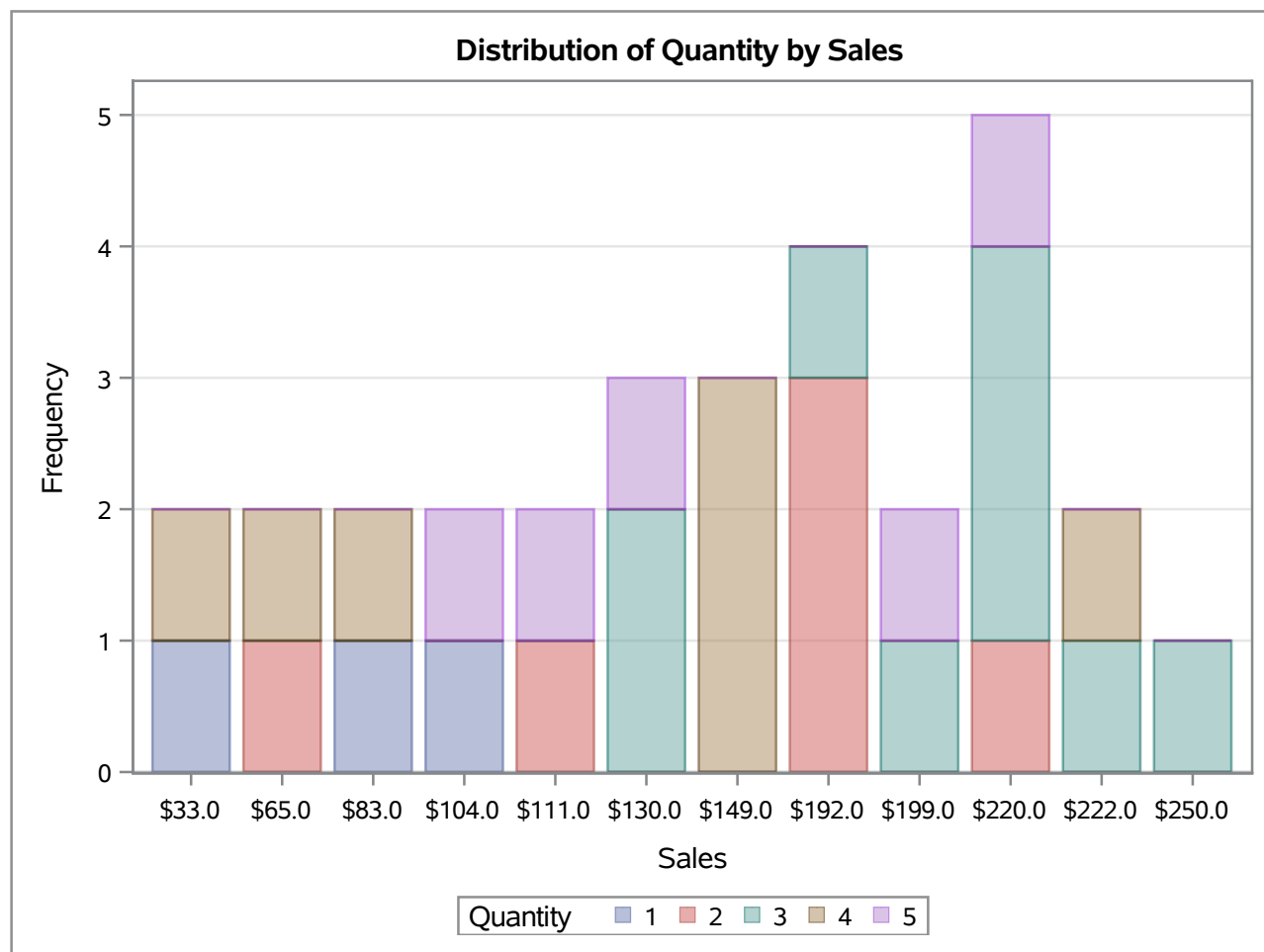
Quantity=5

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
Sales	Sales	5	152.8000000	53.1479068	104.0000000	220.0000000
Profit	Profit	5	53.2900000	47.8499269	3.2500000	107.0000000
Discount	Discount	5	0.0260000	0.0151658	0.0100000	0.0500000
Shipping_cost	Shipping Cost	5	5.3290000	4.7849927	0.3250000	10.7000000

## The FREQ Procedure

Frequency

Table of Quantity by Sales													
Quantity(Quantity)	Sales(Sales)												
	\$33.0	\$65.0	\$83.0	\$104.0	\$111.0	\$130.0	\$149.0	\$192.0	\$199.0	\$220.0	\$222.0	\$250.0	Total
1	1	0	1	1	0	0	0	0	0	0	0	0	3
2	0	1	0	0	1	0	0	3	0	1	0	0	6
3	0	0	0	0	0	2	0	1	1	3	1	1	9
4	1	1	1	0	0	0	3	0	0	0	1	0	7
5	0	0	0	1	1	1	0	0	1	1	0	0	5
Total	2	2	2	2	2	3	3	4	2	5	2	1	30



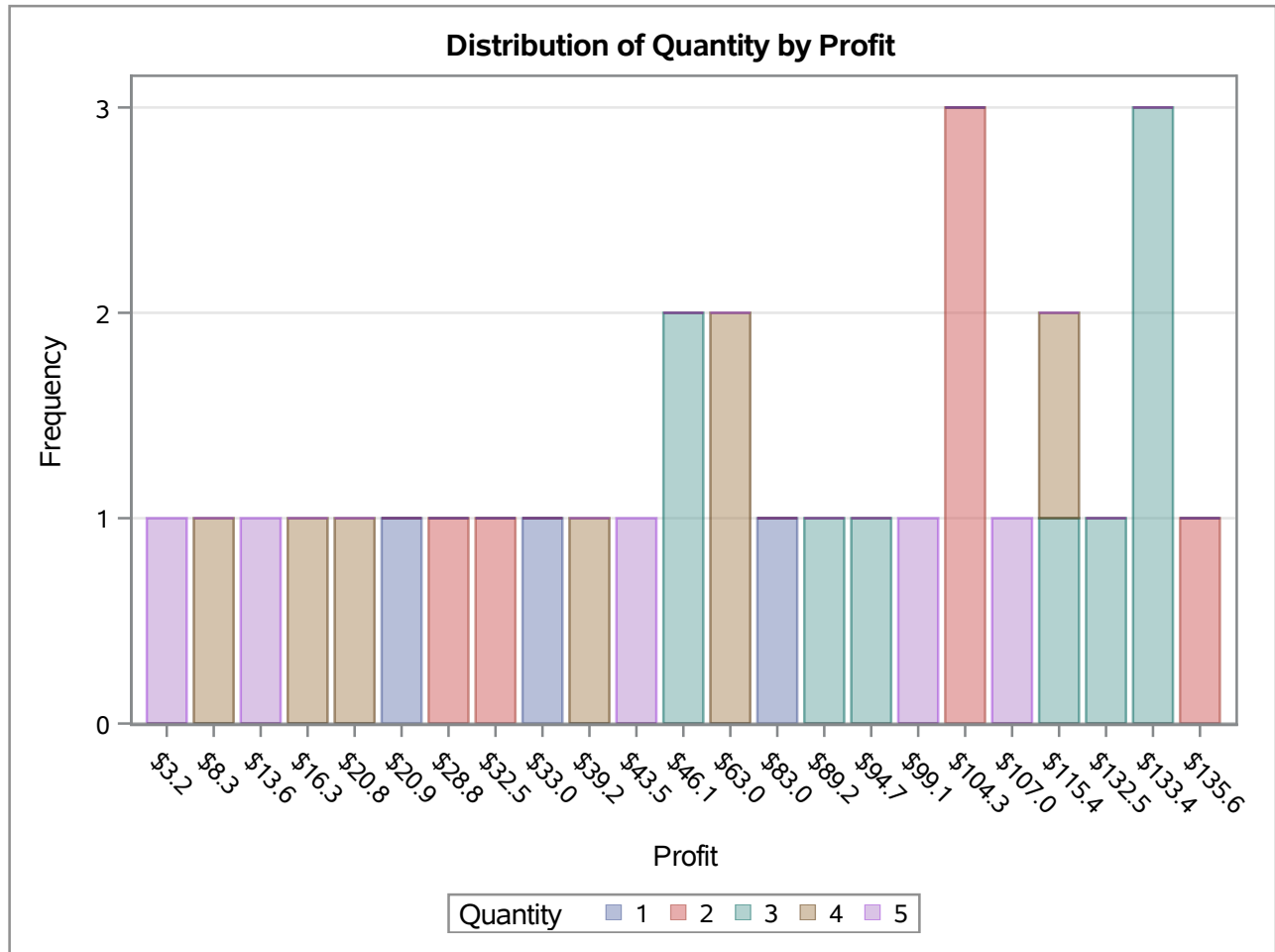
## The FREQ Procedure

Frequency

Table of Quantity by Profit													
Quantity(Quantity)	Profit(Profit)												
	\$3.2	\$8.3	\$13.6	\$16.3	\$20.8	\$20.9	\$28.8	\$32.5	\$33.0	\$39.2	\$43.5	\$46.1	\$63.0
1	0	0	0	0	0	1	0	0	1	0	0	0	0
2	0	0	0	0	0	0	1	1	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	2	0
4	0	1	0	1	1	0	0	0	0	1	0	0	2
5	1	0	1	0	0	0	0	0	0	0	1	0	0
Total	1	1	1	1	1	1	1	1	1	1	1	2	2

Table of Quantity by Profit											
Quantity(Quantity)	Profit(Profit)										
	\$83.0	\$89.2	\$94.7	\$99.1	\$104.3	\$107.0	\$115.4	\$132.5	\$133.4	\$135.6	Total
1	1	0	0	0	0	0	0	0	0	0	3
2	0	0	0	0	3	0	0	0	0	1	6
3	0	1	1	0	0	0	1	1	3	0	9
4	0	0	0	0	0	0	1	0	0	0	7
5	0	0	0	1	0	1	0	0	0	0	5
Total	1	1	1	1	3	1	2	1	3	1	30

## The FREQ Procedure



**The UNIVARIATE Procedure**  
**Variable: Sales (Sales)**

Moments			
<b>N</b>	30	<b>Sum Weights</b>	30
<b>Mean</b>	152.966667	<b>Sum Observations</b>	4589
<b>Std Deviation</b>	63.1759903	<b>Variance</b>	3991.20575
<b>Skewness</b>	-0.3528421	<b>Kurtosis</b>	-1.063775
<b>Uncorrected SS</b>	817709	<b>Corrected SS</b>	115744.967
<b>Coeff Variation</b>	41.3004948	<b>Std Error Mean</b>	11.534305

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	152.9667	<b>Std Deviation</b>	63.17599
<b>Median</b>	149.0000	<b>Variance</b>	3991
<b>Mode</b>	220.0000	<b>Range</b>	217.00000
		<b>Interquartile Range</b>	116.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
<b>Student's t</b>	t	13.26189	Pr >  t	<.0001
<b>Sign</b>	M	15	Pr >=  M	<.0001
<b>Signed Rank</b>	S	232.5	Pr >=  S	<.0001

Tests for Normality				
Test	Statistic		p Value	
<b>Shapiro-Wilk</b>	W	0.924993	Pr < W	0.0362
<b>Kolmogorov-Smirnov</b>	D	0.19833	Pr > D	<0.0100
<b>Cramer-von Mises</b>	W-Sq	0.135438	Pr > W-Sq	0.0367
<b>Anderson-Darling</b>	A-Sq	0.835125	Pr > A-Sq	0.0281

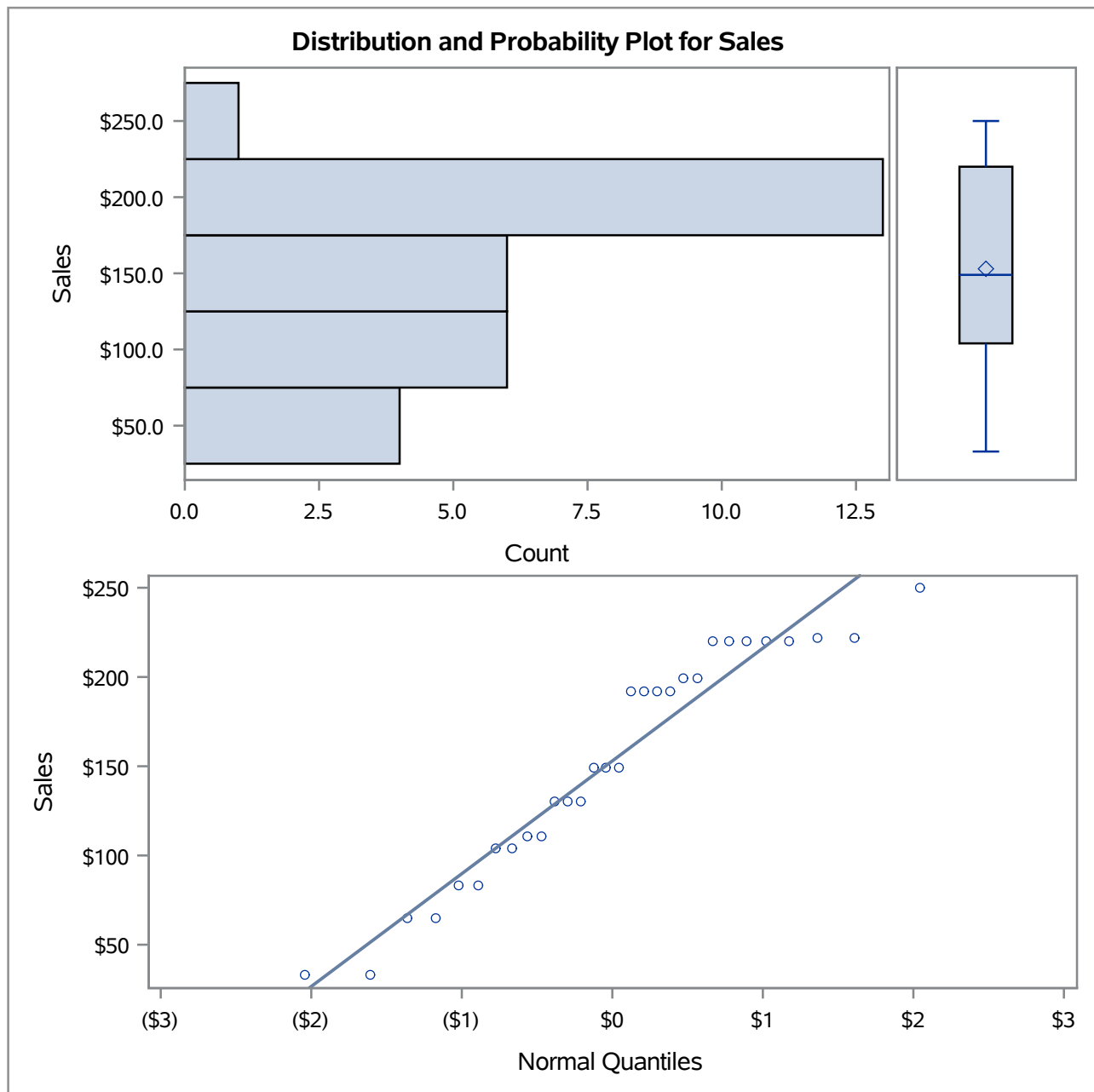
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	250
<b>99%</b>	250
<b>95%</b>	222
<b>90%</b>	221
<b>75% Q3</b>	220
<b>50% Median</b>	149
<b>25% Q1</b>	104

**The UNIVARIATE Procedure**  
**Variable: Sales (Sales)**

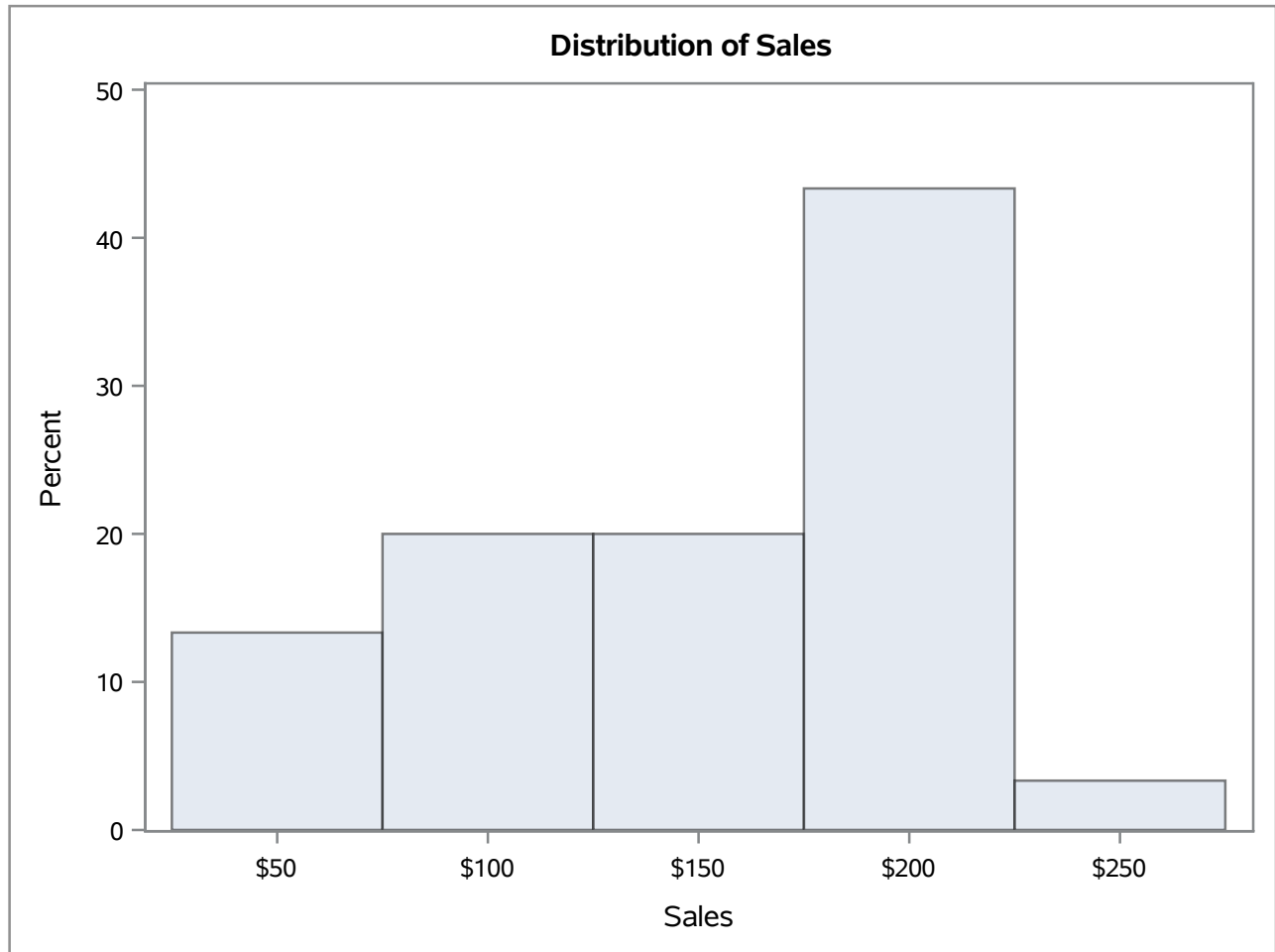
Quantiles (Definition 5)	
Level	Quantile
10%	65
5%	33
1%	33
0% Min	33

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
33	21	220	18
33	2	220	27
65	23	222	13
65	7	222	20
83	22	250	11

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure





**The UNIVARIATE Procedure**  
**Variable: Quantity (Quantity)**

Moments			
<b>N</b>	30	<b>Sum Weights</b>	30
<b>Mean</b>	3.1666667	<b>Sum Observations</b>	95
<b>Std Deviation</b>	1.2340942	<b>Variance</b>	1.52298851
<b>Skewness</b>	-0.1026539	<b>Kurtosis</b>	-0.8300463
<b>Uncorrected SS</b>	345	<b>Corrected SS</b>	44.1666667
<b>Coeff Variation</b>	38.9713959	<b>Std Error Mean</b>	0.22531374

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	3.166667	<b>Std Deviation</b>	1.23409
<b>Median</b>	3.000000	<b>Variance</b>	1.52299
<b>Mode</b>	3.000000	<b>Range</b>	4.00000
		<b>Interquartile Range</b>	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	14.05448	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	15	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	232.5	<b>Pr &gt;=  S </b>	<.0001

Tests for Normality				
Test	Statistic		p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.91766	<b>Pr &lt; W</b>	0.0233
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.153715	<b>Pr &gt; D</b>	0.0702
<b>Cramer-von Mises</b>	<b>W-Sq</b>	0.147372	<b>Pr &gt; W-Sq</b>	0.0241
<b>Anderson-Darling</b>	<b>A-Sq</b>	0.892125	<b>Pr &gt; A-Sq</b>	0.0210

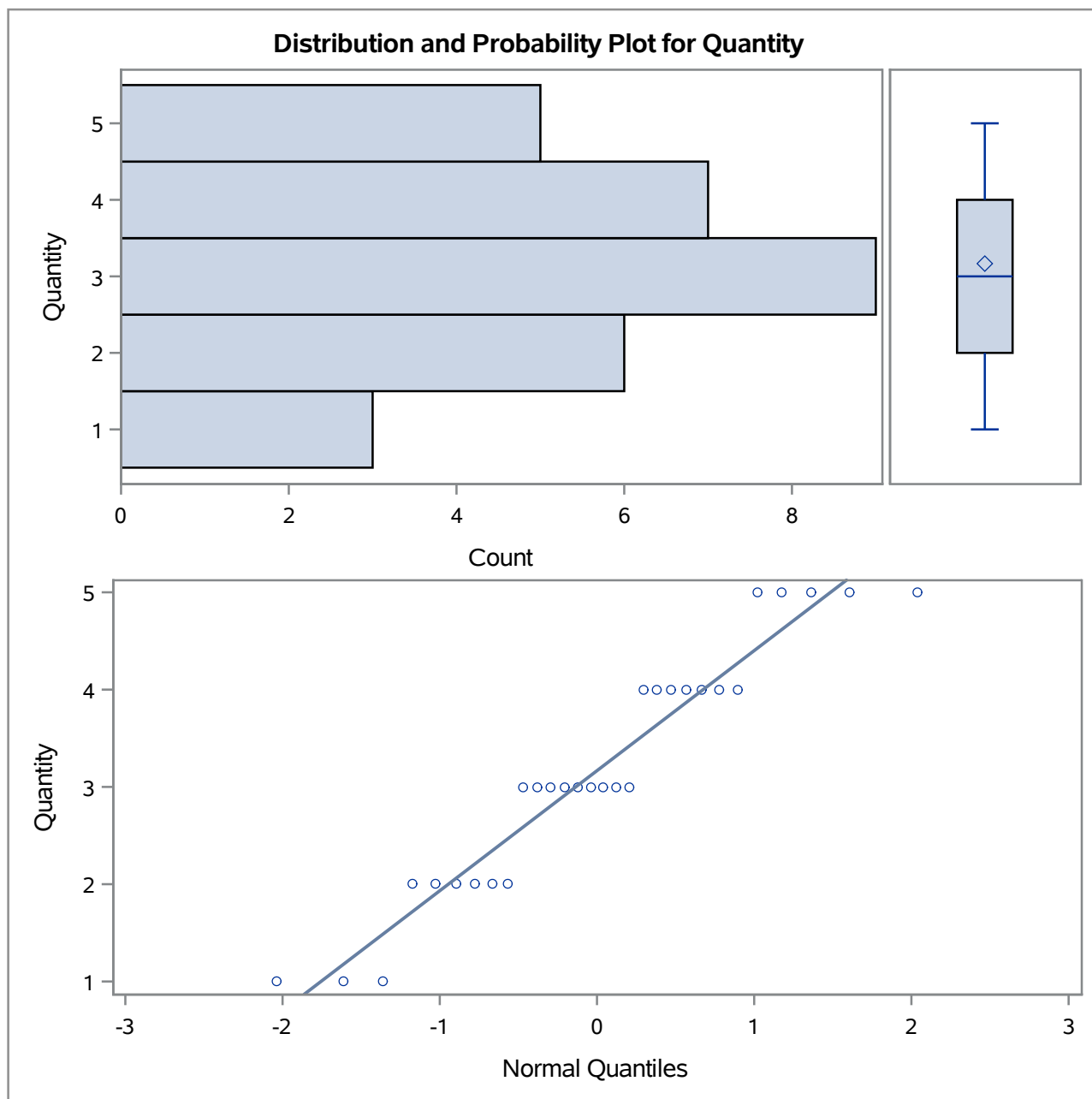
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	5.0
<b>99%</b>	5.0
<b>95%</b>	5.0
<b>90%</b>	5.0
<b>75% Q3</b>	4.0
<b>50% Median</b>	3.0
<b>25% Q1</b>	2.0

**The UNIVARIATE Procedure**  
**Variable: Quantity (Quantity)**

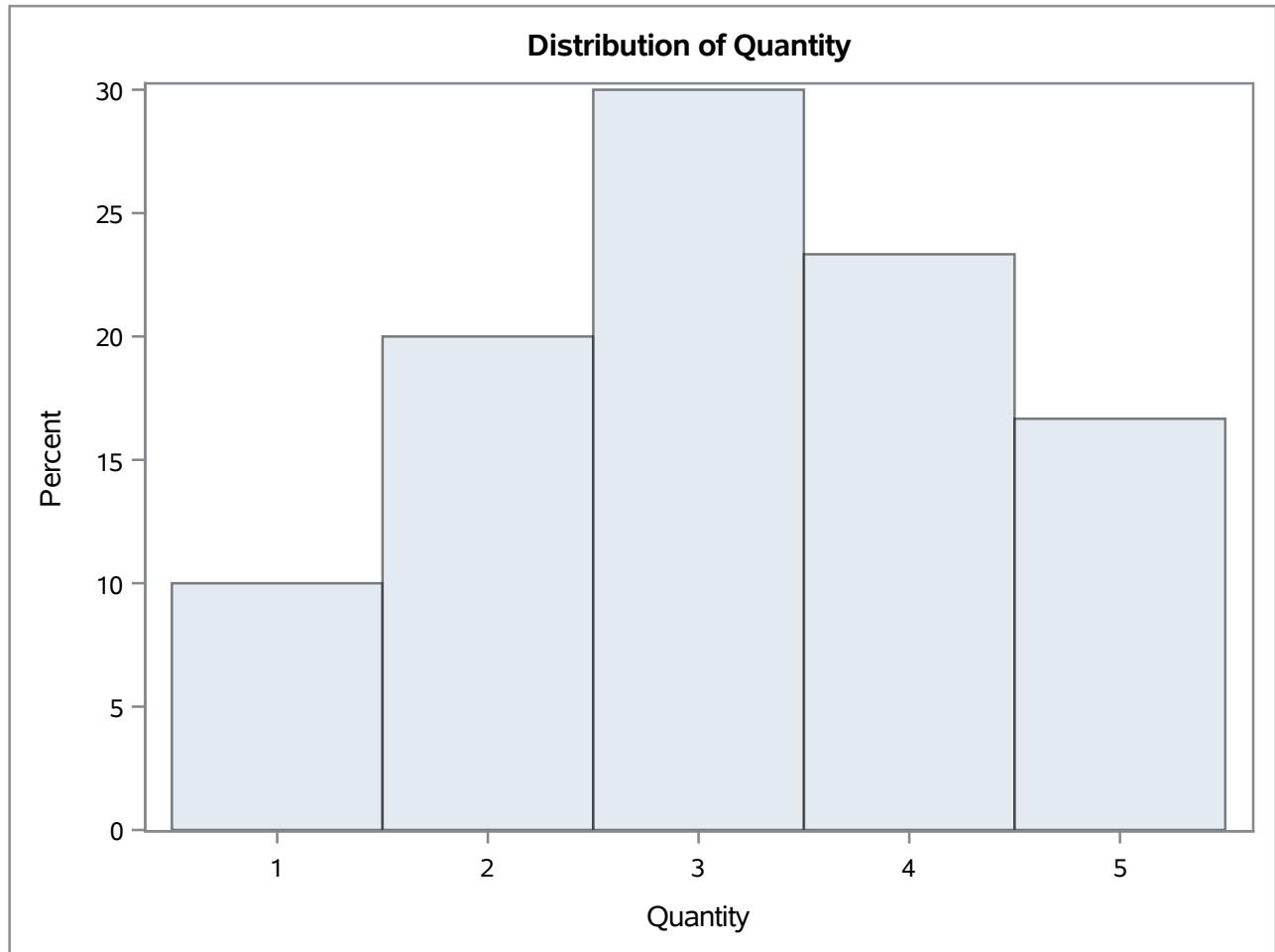
Quantiles (Definition 5)	
Level	Quantile
10%	1.5
5%	1.0
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	3	5	26
1	2	5	27
1	1	5	28
2	9	5	29
2	8	5	30

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: Discount (Discount)**

Moments			
<b>N</b>	30	<b>Sum Weights</b>	30
<b>Mean</b>	0.02566667	<b>Sum Observations</b>	0.77
<b>Std Deviation</b>	0.01546594	<b>Variance</b>	0.0002392
<b>Skewness</b>	0.49553381	<b>Kurtosis</b>	-1.2184066
<b>Uncorrected SS</b>	0.0267	<b>Corrected SS</b>	0.00693667
<b>Coeff Variation</b>	60.256922	<b>Std Error Mean</b>	0.00282368

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	0.025667	<b>Std Deviation</b>	0.01547
<b>Median</b>	0.020000	<b>Variance</b>	0.0002392
<b>Mode</b>	0.010000	<b>Range</b>	0.04000
		<b>Interquartile Range</b>	0.03000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	9.089787	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	15	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	232.5	<b>Pr &gt;=  S </b>	<.0001

Tests for Normality				
Test	Statistic		p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.829335	<b>Pr &lt; W</b>	0.0002
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.211131	<b>Pr &gt; D</b>	<0.0100
<b>Cramer-von Mises</b>	<b>W-Sq</b>	0.24746	<b>Pr &gt; W-Sq</b>	<0.0050
<b>Anderson-Darling</b>	<b>A-Sq</b>	1.783277	<b>Pr &gt; A-Sq</b>	<0.0050

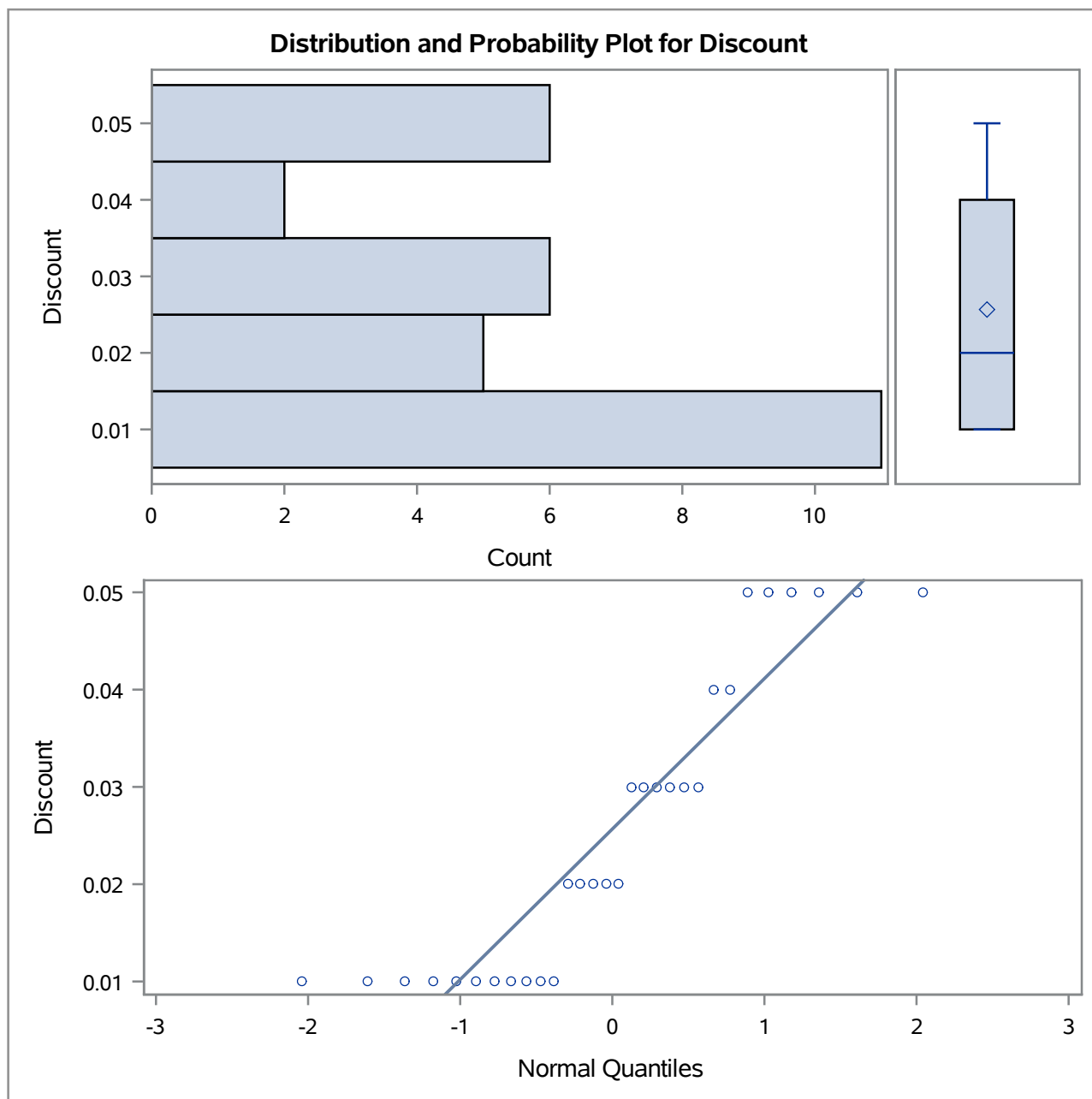
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	0.05
<b>99%</b>	0.05
<b>95%</b>	0.05
<b>90%</b>	0.05
<b>75% Q3</b>	0.04
<b>50% Median</b>	0.02
<b>25% Q1</b>	0.01

**The UNIVARIATE Procedure**  
**Variable: Discount (Discount)**

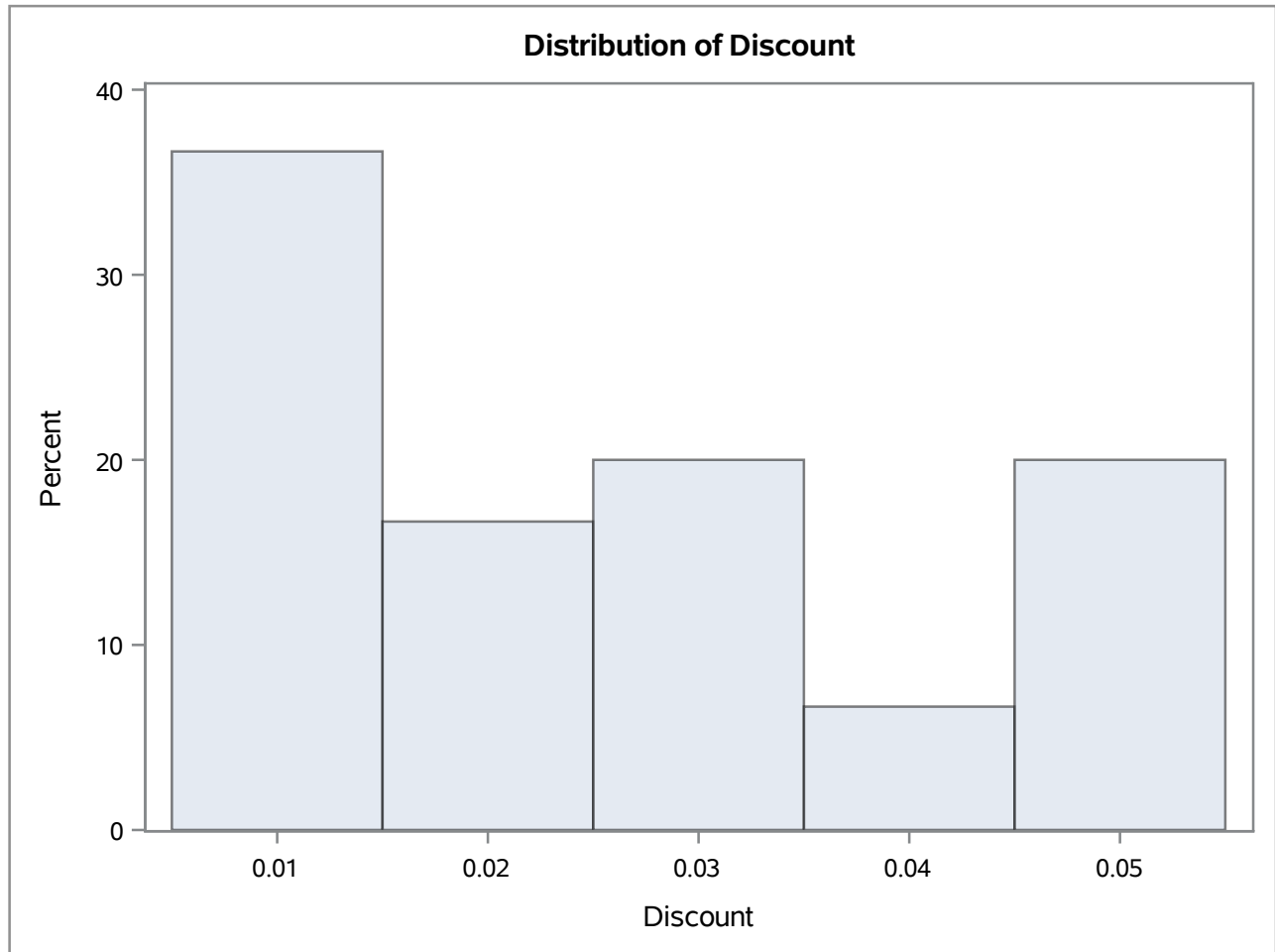
Quantiles (Definition 5)	
Level	Quantile
10%	0.01
5%	0.01
1%	0.01
0% Min	0.01

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	26	0.05	10
0.01	25	0.05	11
0.01	21	0.05	22
0.01	19	0.05	24
0.01	18	0.05	30

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure





**The UNIVARIATE Procedure**  
**Variable: Profit (Profit)**

Moments			
<b>N</b>	30	<b>Sum Weights</b>	30
<b>Mean</b>	72.1063333	<b>Sum Observations</b>	2163.19
<b>Std Deviation</b>	44.6008984	<b>Variance</b>	1989.24014
<b>Skewness</b>	-0.0087696	<b>Kurtosis</b>	-1.5149638
<b>Uncorrected SS</b>	213667.663	<b>Corrected SS</b>	57687.9641
<b>Coeff Variation</b>	61.8543426	<b>Std Error Mean</b>	8.14297272

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	72.1063	<b>Std Deviation</b>	44.60090
<b>Median</b>	73.0200	<b>Variance</b>	1989
<b>Mode</b>	104.3200	<b>Range</b>	132.35000
		<b>Interquartile Range</b>	74.50000

**Note: The mode displayed is the smallest of 2 modes with a count of 3.**

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	8.855038	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	15	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	232.5	<b>Pr &gt;=  S </b>	<.0001

Tests for Normality				
Test	Statistic		p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.910096	<b>Pr &lt; W</b>	0.0150
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.153417	<b>Pr &gt; D</b>	0.0713
<b>Cramer-von Mises</b>	<b>W-Sq</b>	0.151311	<b>Pr &gt; W-Sq</b>	0.0221
<b>Anderson-Darling</b>	<b>A-Sq</b>	0.915882	<b>Pr &gt; A-Sq</b>	0.0187

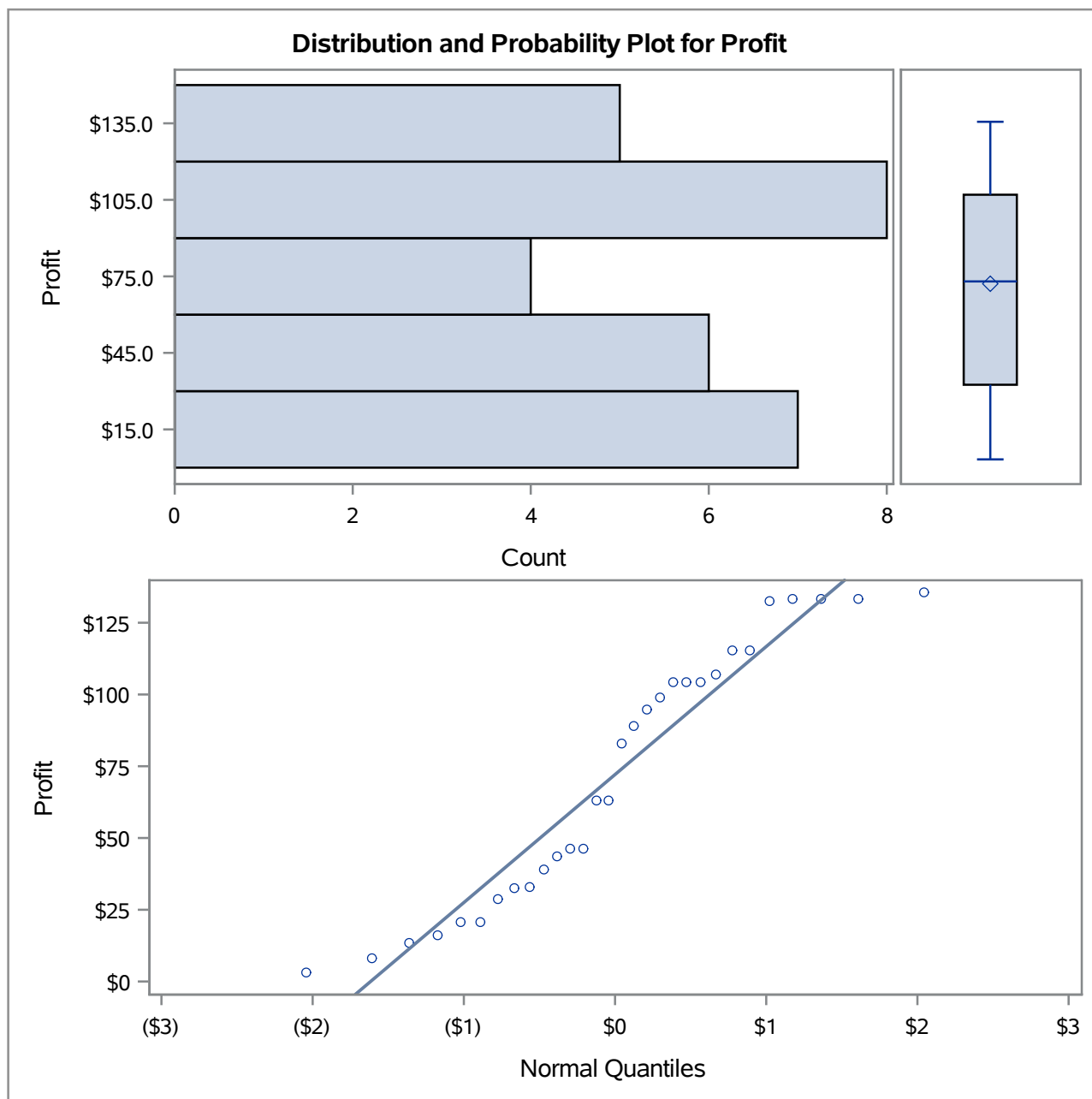
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	135.600
<b>99%</b>	135.600
<b>95%</b>	133.400
<b>90%</b>	133.400
<b>75% Q3</b>	107.000
<b>50% Median</b>	73.020

**The UNIVARIATE Procedure**  
**Variable: Profit (Profit)**

Quantiles (Definition 5)	
Level	Quantile
25% Q1	32.500
10%	14.925
5%	8.250
1%	3.250
0% Min	3.250

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.25	30	132.5	11
8.25	21	133.4	15
13.60	28	133.4	16
16.25	23	133.4	18
20.75	22	135.6	4

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure



**The UNIVARIATE Procedure**  
**Variable: Shipping\_cost (Shipping Cost)**

Moments			
<b>N</b>	30	<b>Sum Weights</b>	30
<b>Mean</b>	7.21063333	<b>Sum Observations</b>	216.319
<b>Std Deviation</b>	4.46008984	<b>Variance</b>	19.8924014
<b>Skewness</b>	-0.0087696	<b>Kurtosis</b>	-1.5149638
<b>Uncorrected SS</b>	2136.67663	<b>Corrected SS</b>	576.879641
<b>Coeff Variation</b>	61.8543426	<b>Std Error Mean</b>	0.81429727

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	7.21063	<b>Std Deviation</b>	4.46009
<b>Median</b>	7.30200	<b>Variance</b>	19.89240
<b>Mode</b>	10.43200	<b>Range</b>	13.23500
		<b>Interquartile Range</b>	7.45000

**Note: The mode displayed is the smallest of 2 modes with a count of 3.**

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	8.855038	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	15	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	232.5	<b>Pr &gt;=  S </b>	<.0001

Tests for Normality				
Test	Statistic		p Value	
<b>Shapiro-Wilk</b>	<b>W</b>	0.910096	<b>Pr &lt; W</b>	0.0150
<b>Kolmogorov-Smirnov</b>	<b>D</b>	0.153417	<b>Pr &gt; D</b>	0.0713
<b>Cramer-von Mises</b>	<b>W-Sq</b>	0.151311	<b>Pr &gt; W-Sq</b>	0.0221
<b>Anderson-Darling</b>	<b>A-Sq</b>	0.915882	<b>Pr &gt; A-Sq</b>	0.0187

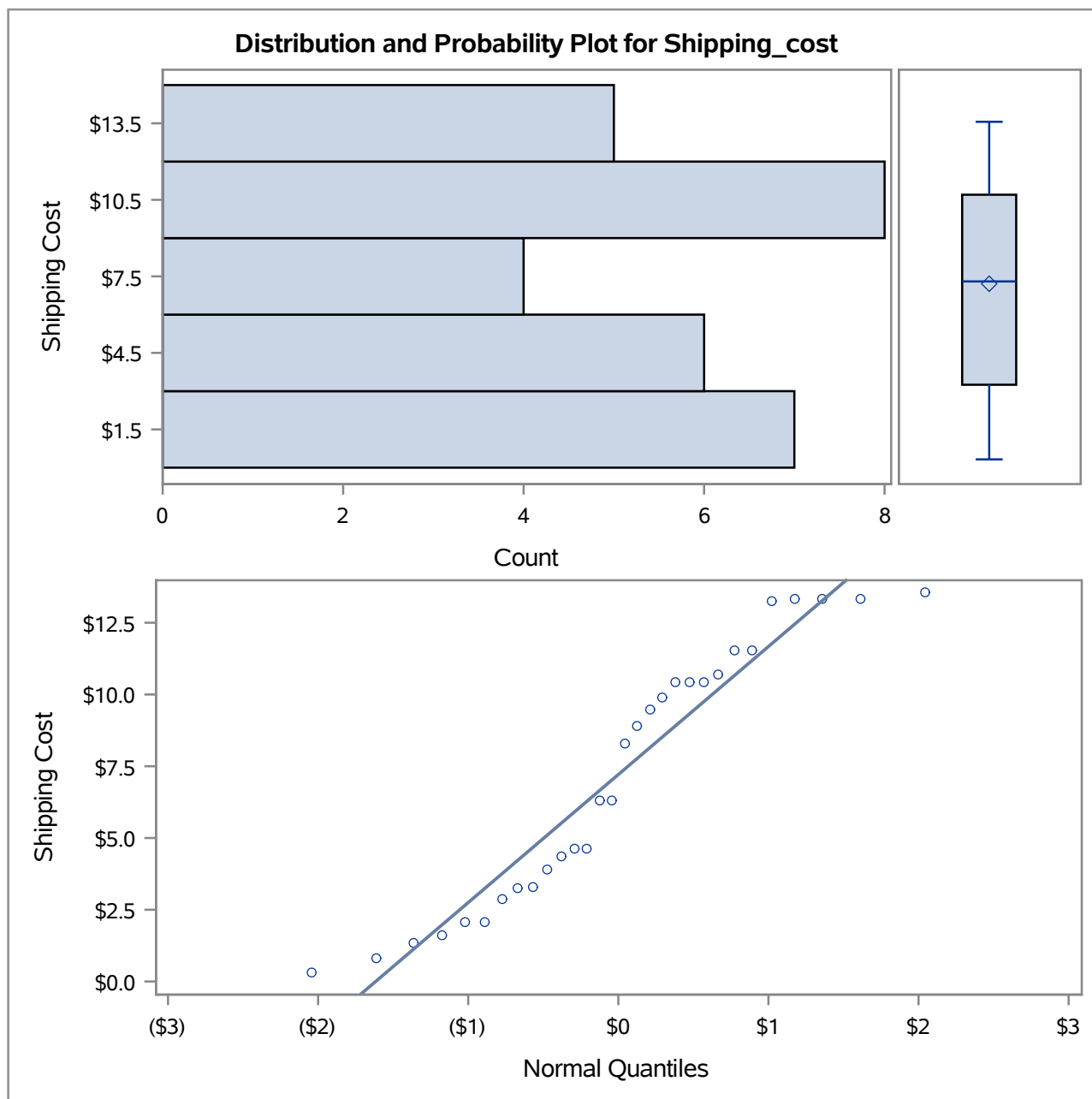
Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	13.5600
<b>99%</b>	13.5600
<b>95%</b>	13.3400
<b>90%</b>	13.3400
<b>75% Q3</b>	10.7000
<b>50% Median</b>	7.3020

**The UNIVARIATE Procedure**  
**Variable: Shipping\_cost (Shipping Cost)**

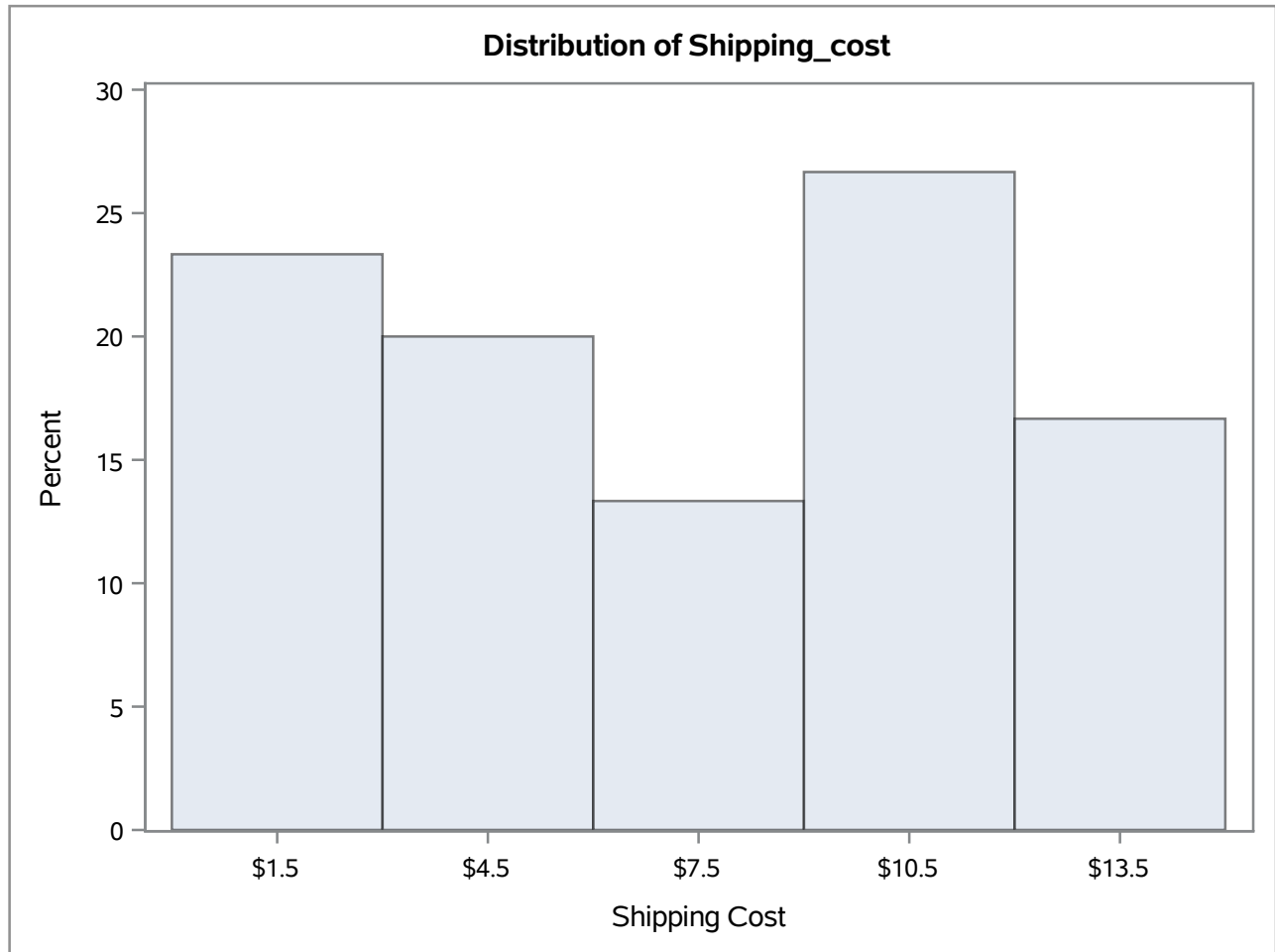
Quantiles (Definition 5)	
Level	Quantile
25% Q1	3.2500
10%	1.4925
5%	0.8250
1%	0.3250
0% Min	0.3250

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.325	30	13.25	11
0.825	21	13.34	15
1.360	28	13.34	16
1.625	23	13.34	18
2.075	22	13.56	4

## The UNIVARIATE Procedure



## The UNIVARIATE Procedure





**The ANOVA Procedure**

Class Level Information		
Class	Levels	Values
Quantity	5	1 2 3 4 5

Number of Observations Read	30
Number of Observations Used	30

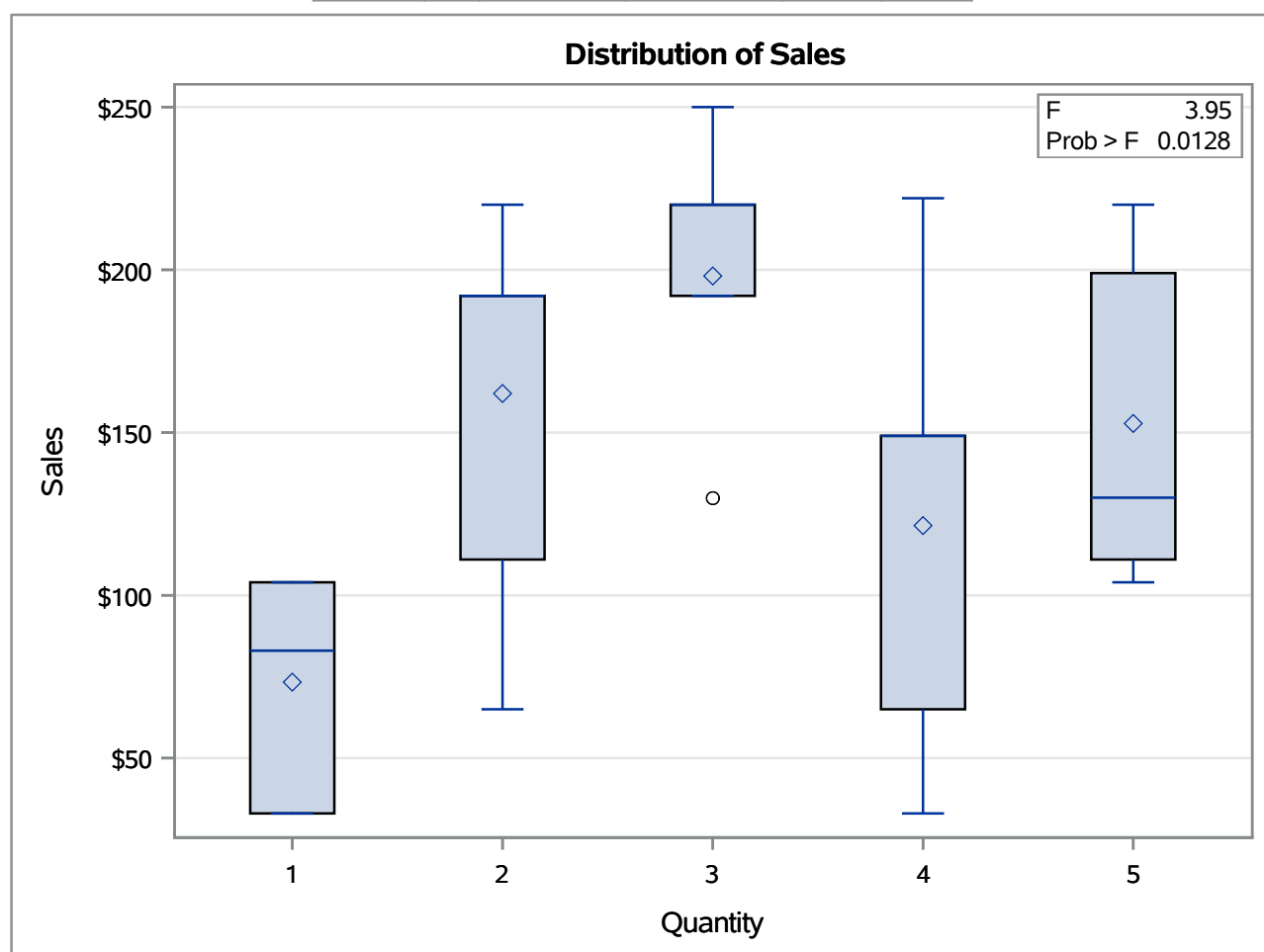
## The ANOVA Procedure

Dependent Variable: Sales Sales

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	44818.8968	11204.7242	3.95	0.0128
Error	25	70926.0698	2837.0428		
Corrected Total	29	115744.9667			

R-Square	Coeff Var	Root MSE	Sales Mean
0.387221	34.82059	53.26390	152.9667

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Quantity	4	44818.89683	11204.72421	3.95	0.0128



## The CORR Procedure

<b>6 Variables:</b>	Order_ID	Sales	Quantity	Discount	Profit	Shipping_cost
---------------------	----------	-------	----------	----------	--------	---------------

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
Order_ID	30	110016	8.80341	3300465	110001	110030	Order_ID
Sales	30	152.96667	63.17599	4589	33.00000	250.00000	Sales
Quantity	30	3.16667	1.23409	95.00000	1.00000	5.00000	Quantity
Discount	30	0.02567	0.01547	0.77000	0.01000	0.05000	Discount
Profit	30	72.10633	44.60090	2163	3.25000	135.60000	Profit
Shipping_cost	30	7.21063	4.46009	216.31900	0.32500	13.56000	Shipping Cost

Pearson Correlation Coefficients, N = 30 Prob >  r  under H0: Rho=0						
	Order_ID	Sales	Quantity	Discount	Profit	Shipping_cost
Order_ID Order_ID	1.00000 0.6595	0.08386 0.6595	-0.16663 0.3788	-0.20388 0.2799	0.20600 0.2748	0.20600 0.2748
Sales Sales	0.08386 0.6595	1.00000	0.08897 0.6401	-0.09791 0.6067	0.89522 <.0001	0.89522 <.0001
Quantity Quantity	-0.16663 0.3788	0.08897 0.6401	1.00000	-0.03312 0.8621	-0.17876 0.3446	-0.17876 0.3446
Discount Discount	-0.20388 0.2799	-0.09791 0.6067	-0.03312 0.8621	1.00000	-0.13694 0.4705	-0.13694 0.4705
Profit Profit	0.20600 0.2748	0.89522 <.0001	-0.17876 0.3446	-0.13694 0.4705	1.00000	1.00000 <.0001
Shipping_cost Shipping Cost	0.20600 0.2748	0.89522 <.0001	-0.17876 0.3446	-0.13694 0.4705	1.00000 <.0001	1.00000

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales 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	100358	33453	56.53	<.0001
Error	26	15387	591.80747		
Corrected Total	29	115745			

Root MSE	24.32709	R-Square	0.8671
Dependent Mean	152.96667	Adj R-Sq	0.8517
Coeff Var	15.90353		

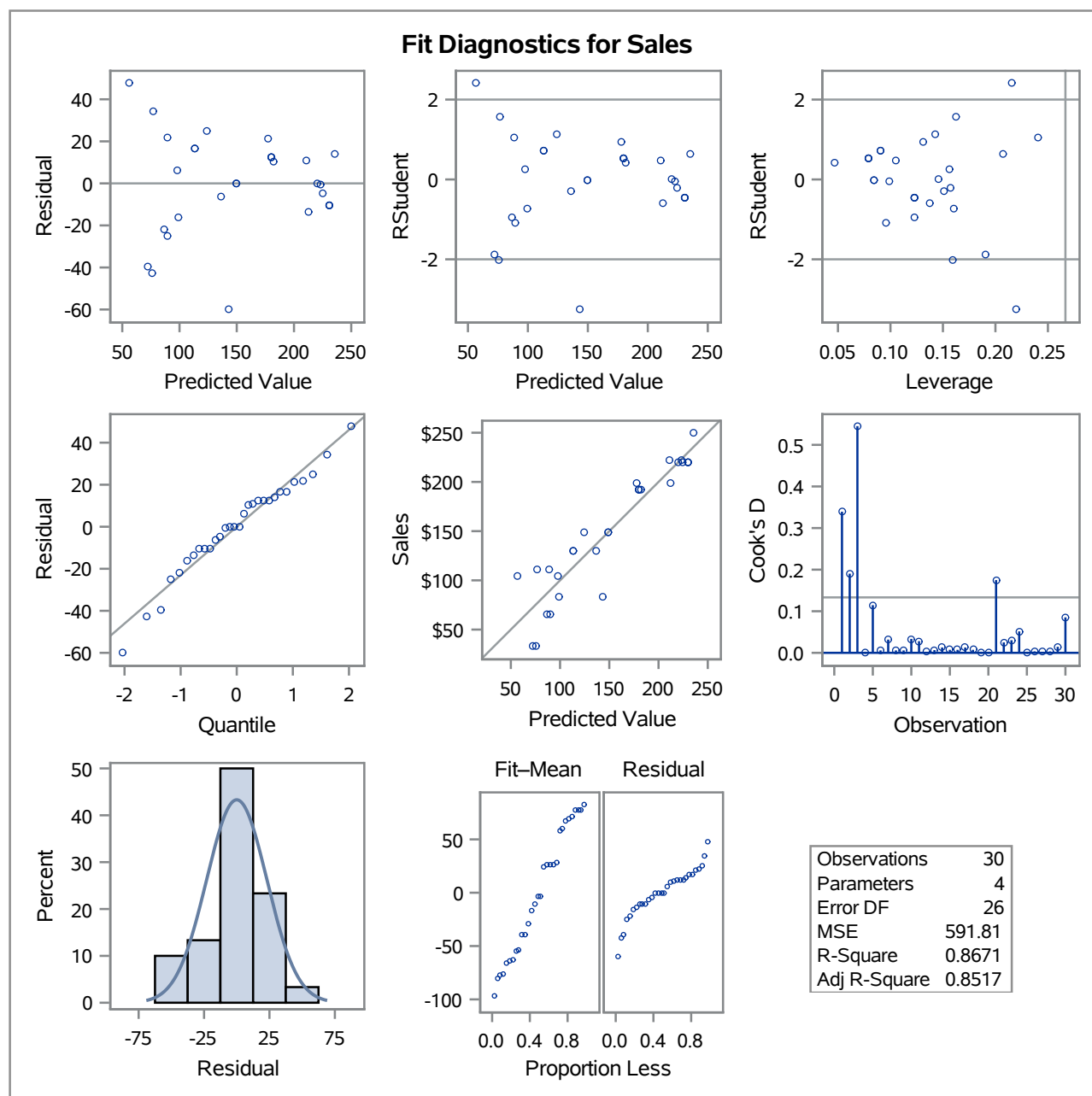
**Note:** Model is not full rank. Least-squares solutions for the parameters are not unique. Some statistics will be misleading. A reported DF of 0 or B means that the estimate is biased.

**Note:** The following parameters have been set to 0, since the variables are a linear combination of other variables as shown.

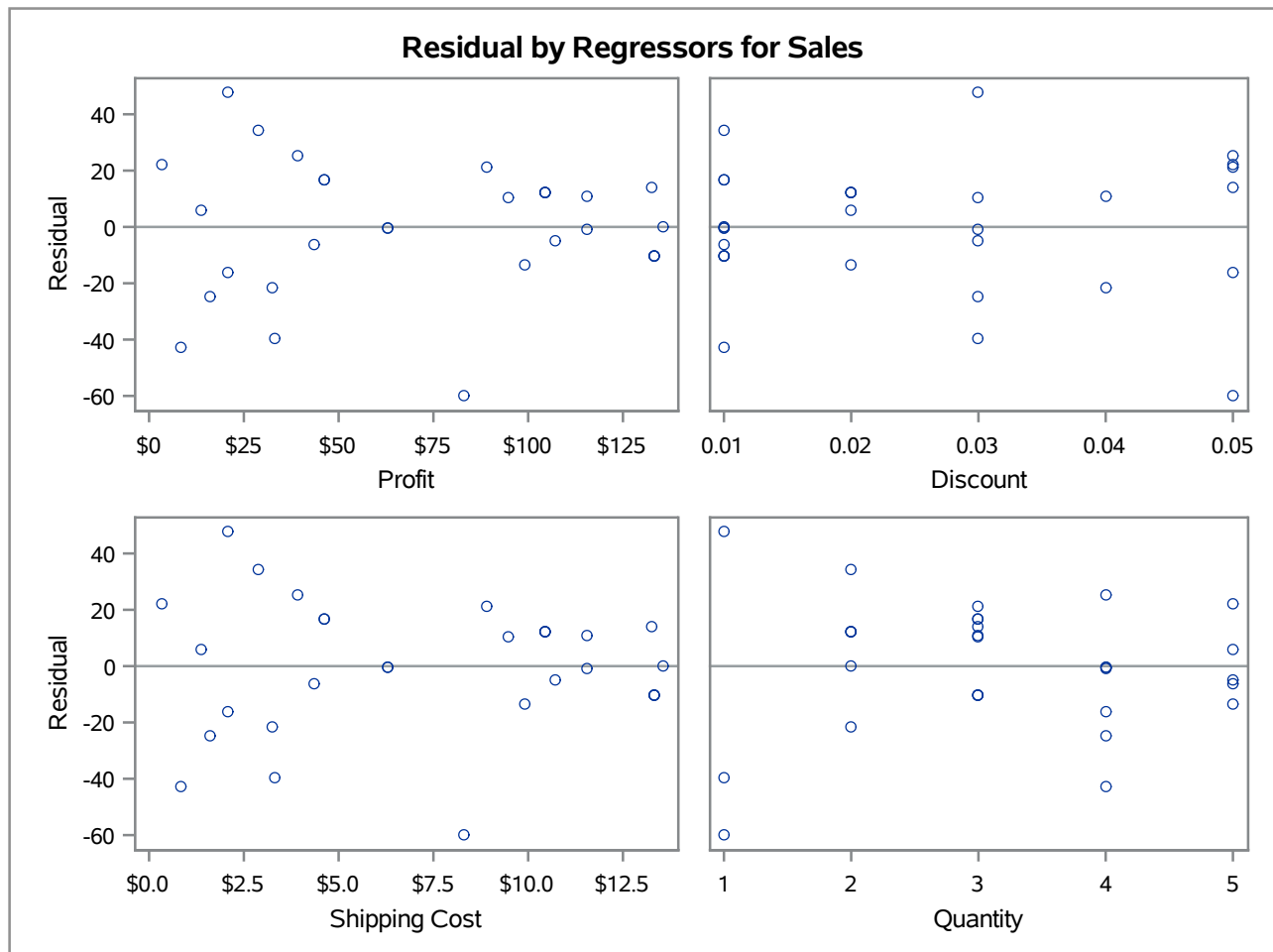
Shipping_cost =	0.1 * Profit
-----------------	--------------

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	Intercept	1	9.90385	18.23931	0.54	0.5918	0
Profit	Profit	B	1.34163	0.10405	12.89	<.0001	1.05528
Discount	Discount	1	165.00152	295.38296	0.56	0.5812	1.02268
Shipping_cost	Shipping Cost	0	0	.	.	.	.
Quantity	Quantity	1	13.29089	3.72696	3.57	0.0014	1.03663

The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales



**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=1

Number of Observations Read	3
Number of Observations Used	3

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2660.66667	1330.33333	.	.
Error	0	4.45652E-10	.	.	.
Corrected Total	2	2660.66667	.	.	.

Root MSE	.	R-Square	1.0000
Dependent Mean	73.33333	Adj R-Sq	.
Coeff Var	.		

**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.

<b>Profit_exp =</b>	2.59E36 * Intercept + 4.35E34 * Profit - 1.15E36 * Profit_log
<b>Profit_sq =</b>	6546.74 * Intercept + 175.316 * Profit - 3215.54 * Profit_log
<b>Profit_cube =</b>	953308 * Intercept + 18836.2 * Profit - 440143 * Profit_log
<b>Discount =</b>	0.07659 * Intercept + 0.00078 * Profit - 0.02071 * Profit_log
<b>Discount_log =</b>	-2.31653 * Intercept + 0.01997 * Profit - 0.52884 * Profit_log
<b>Discount_exp =</b>	1.07895 * Intercept + 0.00081 * Profit - 0.02155 * Profit_log
<b>Discount_sq =</b>	0.00463 * Intercept + 0.00006 * Profit - 0.00166 * Profit_log
<b>Discount_cube =</b>	0.00026 * Intercept + 3.83E-6 * Profit - 0.0001 * Profit_log
<b>Shipping_cost =</b>	0.1 * Profit
<b>Shipping_cost_log =</b>	-2.30259 * Intercept + Profit_log
<b>Shipping_cost_exp =</b>	9103.14 * Intercept + 154.762 * Profit - 4056.38 * Profit_log
<b>Shipping_cost_sq =</b>	65.4674 * Intercept + 1.75316 * Profit - 32.1554 * Profit_log
<b>Shipping_cost_cube =</b>	953.308 * Intercept + 18.8362 * Profit - 440.143 * Profit_log

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

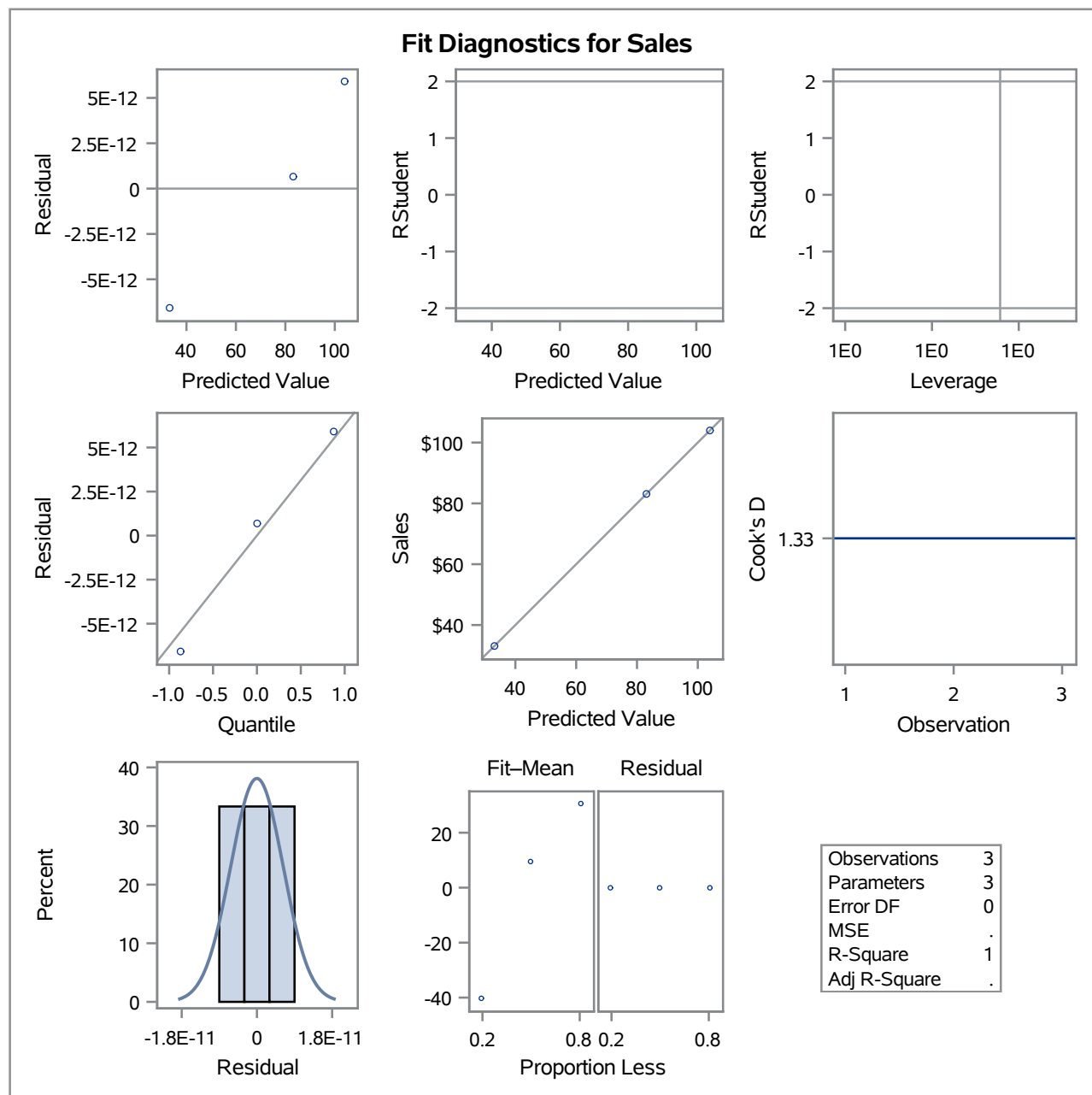
Quantity=1

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	B	1025.15132	.	.	.
Profit	Profit	B	7.54852	.	.	.
Profit_log		B	-354.99784	.	.	.
Profit_exp		0	0	.	.	.
Profit_sq		0	0	.	.	.
Profit_cube		0	0	.	.	.
Discount	Discount	0	0	.	.	.
Discount_log		0	0	.	.	.
Discount_exp		0	0	.	.	.
Discount_sq		0	0	.	.	.
Discount_cube		0	0	.	.	.
Shipping_cost	Shipping Cost	0	0	.	.	.
Shipping_cost_log		0	0	.	.	.
Shipping_cost_exp		0	0	.	.	.
Shipping_cost_sq		0	0	.	.	.
Shipping_cost_cube		0	0	.	.	.



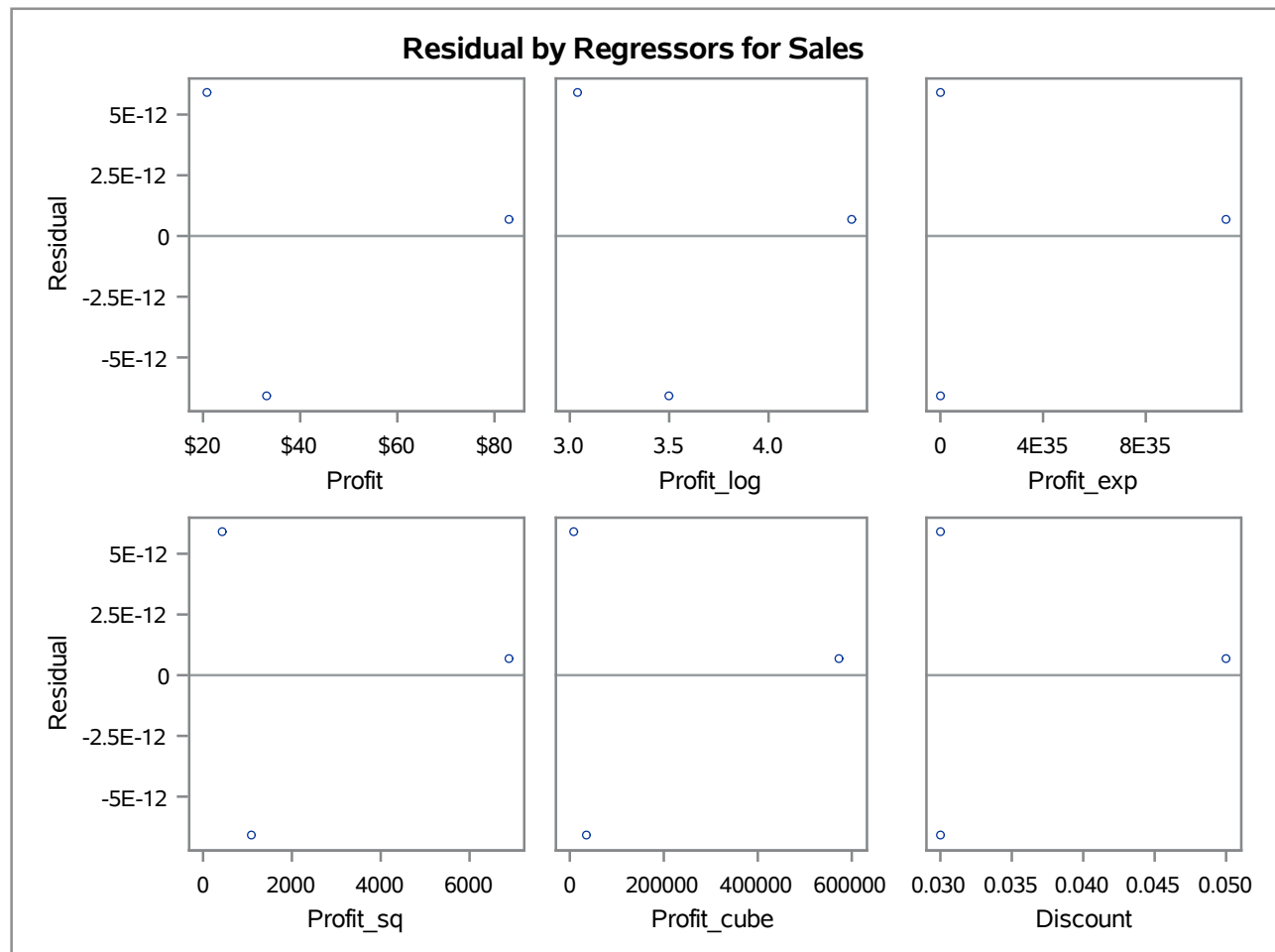
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=1



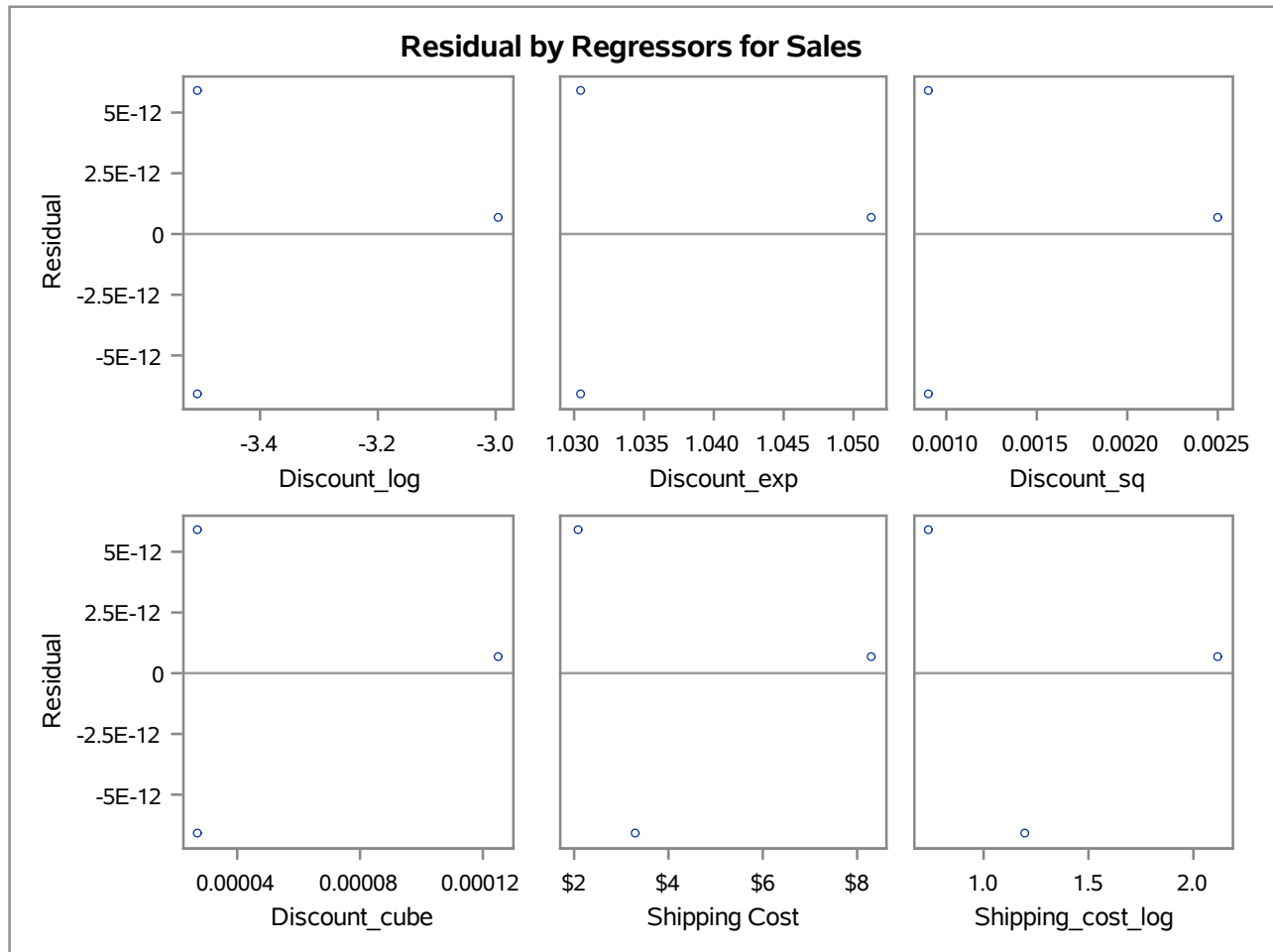
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=1



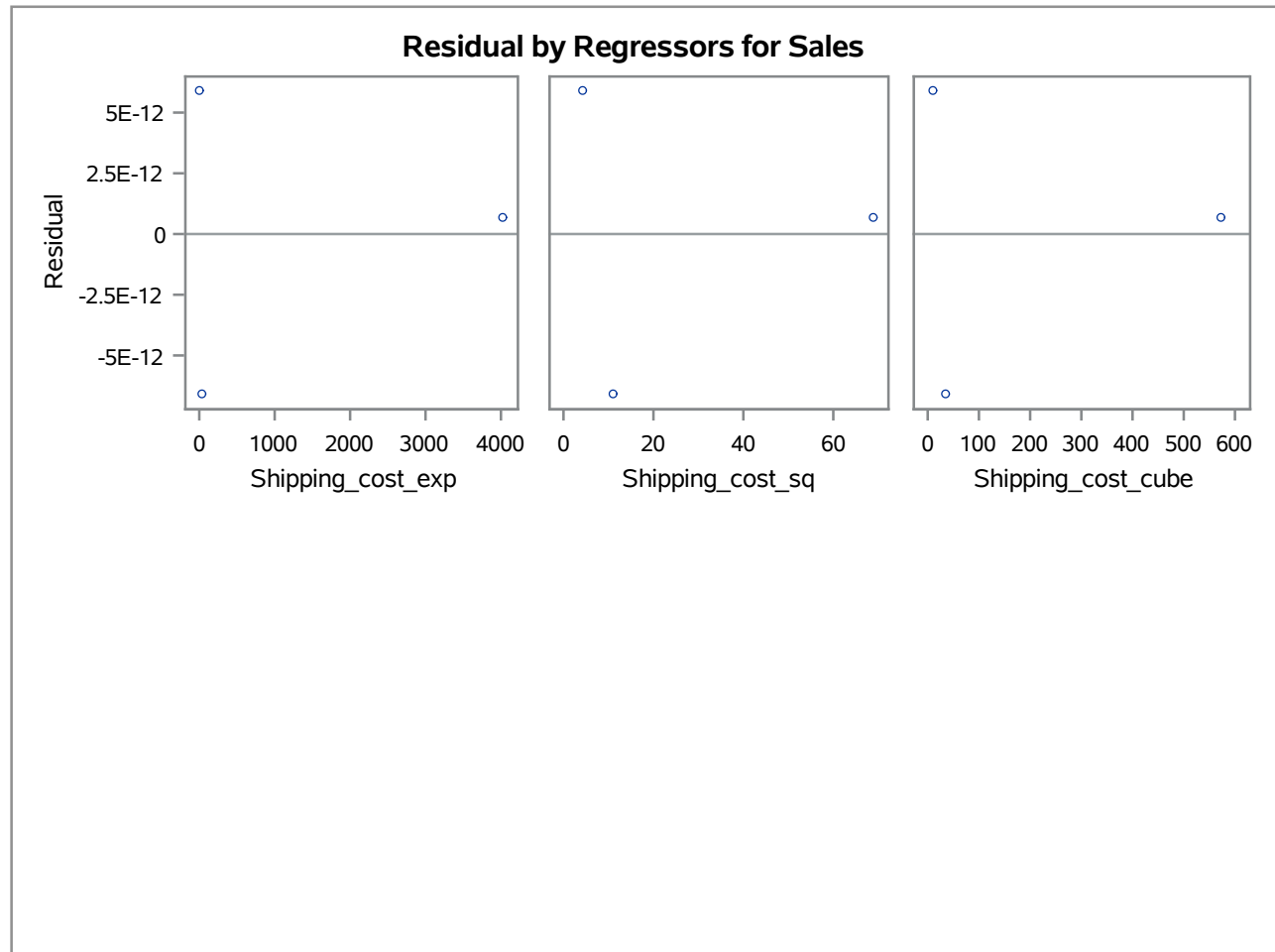
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=1



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=1



**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=2

Number of Observations Read	6
Number of Observations Used	6

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	18074	6024.66667	8E11	<.0001
Error	2	1.505737E-8	7.528683E-9		
Corrected Total	5	18074			

Root MSE	0.00008677	R-Square	1.0000
Dependent Mean	162.00000	Adj R-Sq	1.0000
Coeff Var	0.00005356		

**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.

<b>Profit_sq =</b>	10181.3 * Intercept + 211.436 * Profit - 4595.14 * Profit_log + 27E-57 * Profit_exp
<b>Profit_cube =</b>	1783606 * Intercept + 27685.8 * Profit - 760955 * Profit_log + 89E-55 * Profit_exp
<b>Discount =</b>	-1.44988 * Intercept - 0.00852 * Profit + 0.50751 * Profit_log + 159E-62 * Profit_exp
<b>Discount_log =</b>	-71.5923 * Intercept - 0.38729 * Profit + 23.2562 * Profit_log + 685E-61 * Profit_exp
<b>Discount_exp =</b>	-0.48705 * Intercept - 0.00874 * Profit + 0.52046 * Profit_log + 163E-62 * Profit_exp
<b>Discount_sq =</b>	- 0.0733 * Intercept - 0.00043 * Profit + 0.02554 * Profit_log + 837E-64 * Profit_exp
<b>Discount_cube =</b>	-0.00309 * Intercept - 0.00002 * Profit + 0.00108 * Profit_log + 363E-65 * Profit_exp
<b>Shipping_cost =</b>	0.1 * Profit
<b>Shipping_cost_log =</b>	-2.30259 * Intercept + Profit_log
<b>Shipping_cost_exp =</b>	69106.6 * Intercept + 936.194 * Profit - 28583.8 * Profit_log + 925E-56 * Profit_exp
<b>Shipping_cost_sq =</b>	101.813 * Intercept + 2.11436 * Profit - 45.9514 * Profit_log + 27E-59 * Profit_exp
<b>Shipping_cost_cube =</b>	1783.61 * Intercept + 27.6858 * Profit - 760.955 * Profit_log + 89E-58 * Profit_exp

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	B	2546.86852	0.00599	425046	<.0001
Profit	Profit	B	15.72941	0.00003435	457903	<.0001
Profit_log		B	-859.77249	0.00206	-417442	<.0001
Profit_exp		B	-3.0707E-57	7.04346E-63	-435964	<.0001

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

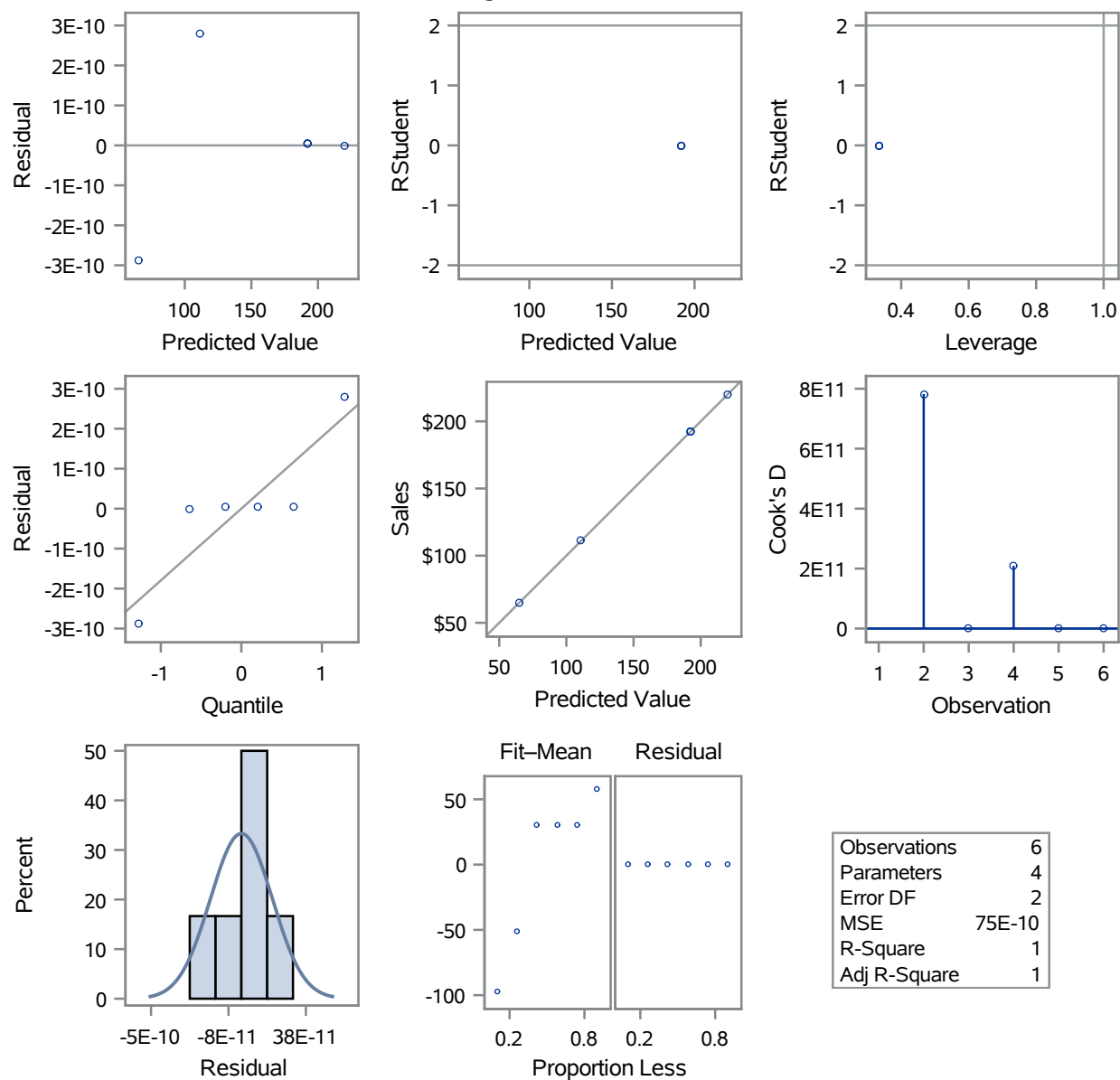
Quantity=2

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Profit_sq		0	0	.	.	.
Profit_cube		0	0	.	.	.
Discount	Discount	0	0	.	.	.
Discount_log		0	0	.	.	.
Discount_exp		0	0	.	.	.
Discount_sq		0	0	.	.	.
Discount_cube		0	0	.	.	.
Shipping_cost	Shipping Cost	0	0	.	.	.
Shipping_cost_log		0	0	.	.	.
Shipping_cost_exp		0	0	.	.	.
Shipping_cost_sq		0	0	.	.	.
Shipping_cost_cube		0	0	.	.	.

The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

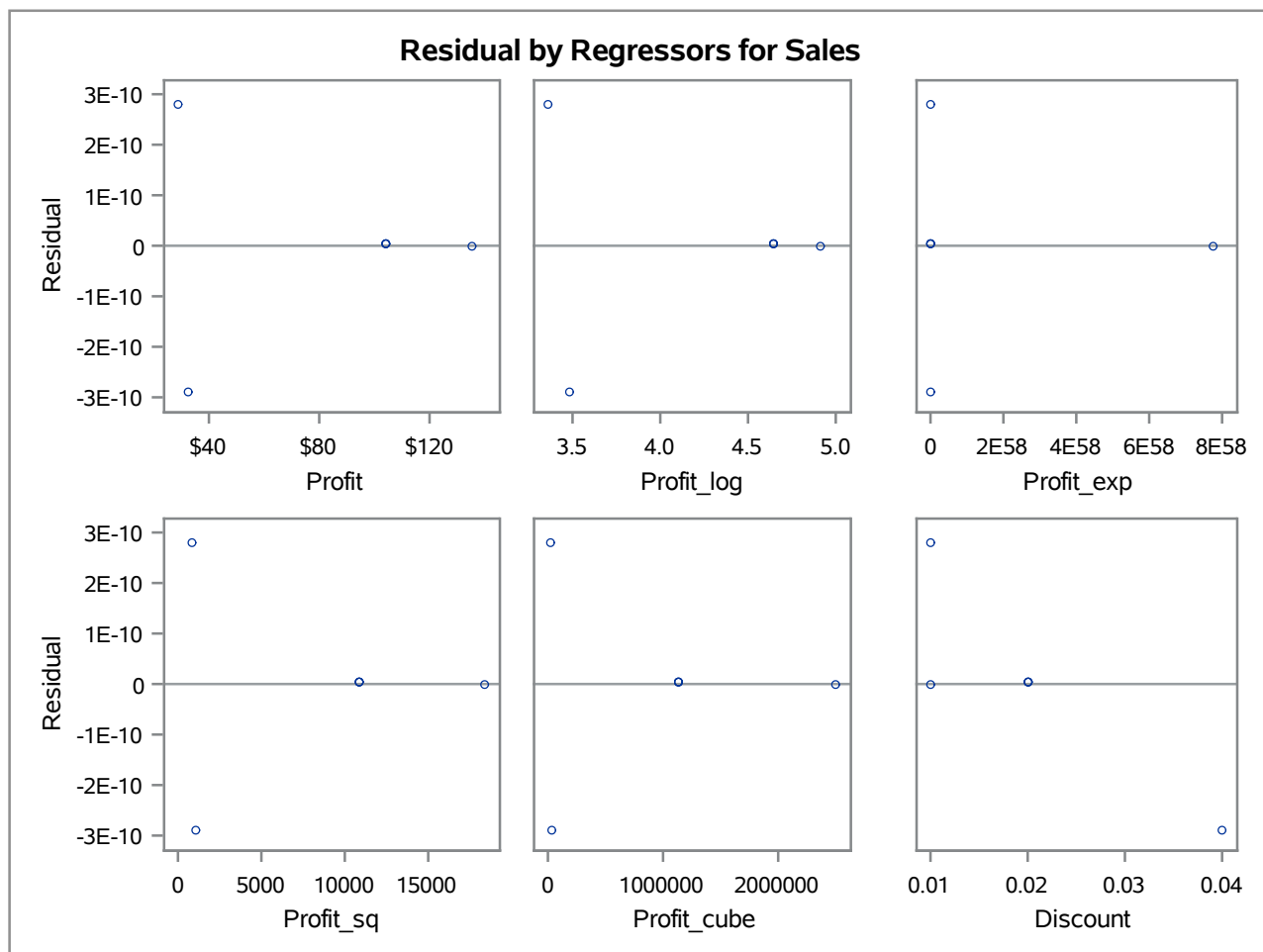
Quantity=2

## Fit Diagnostics for Sales



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

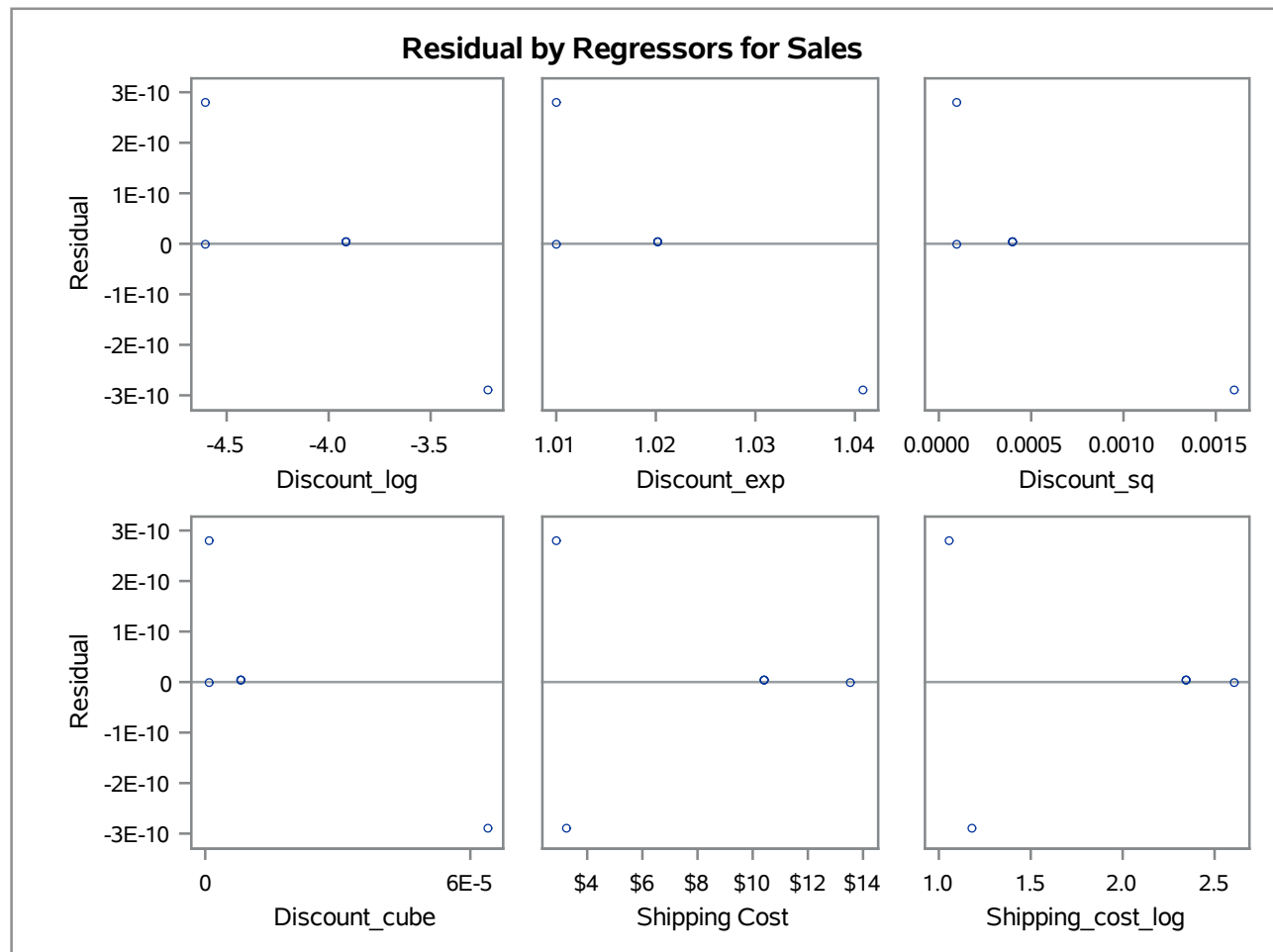
Quantity=2





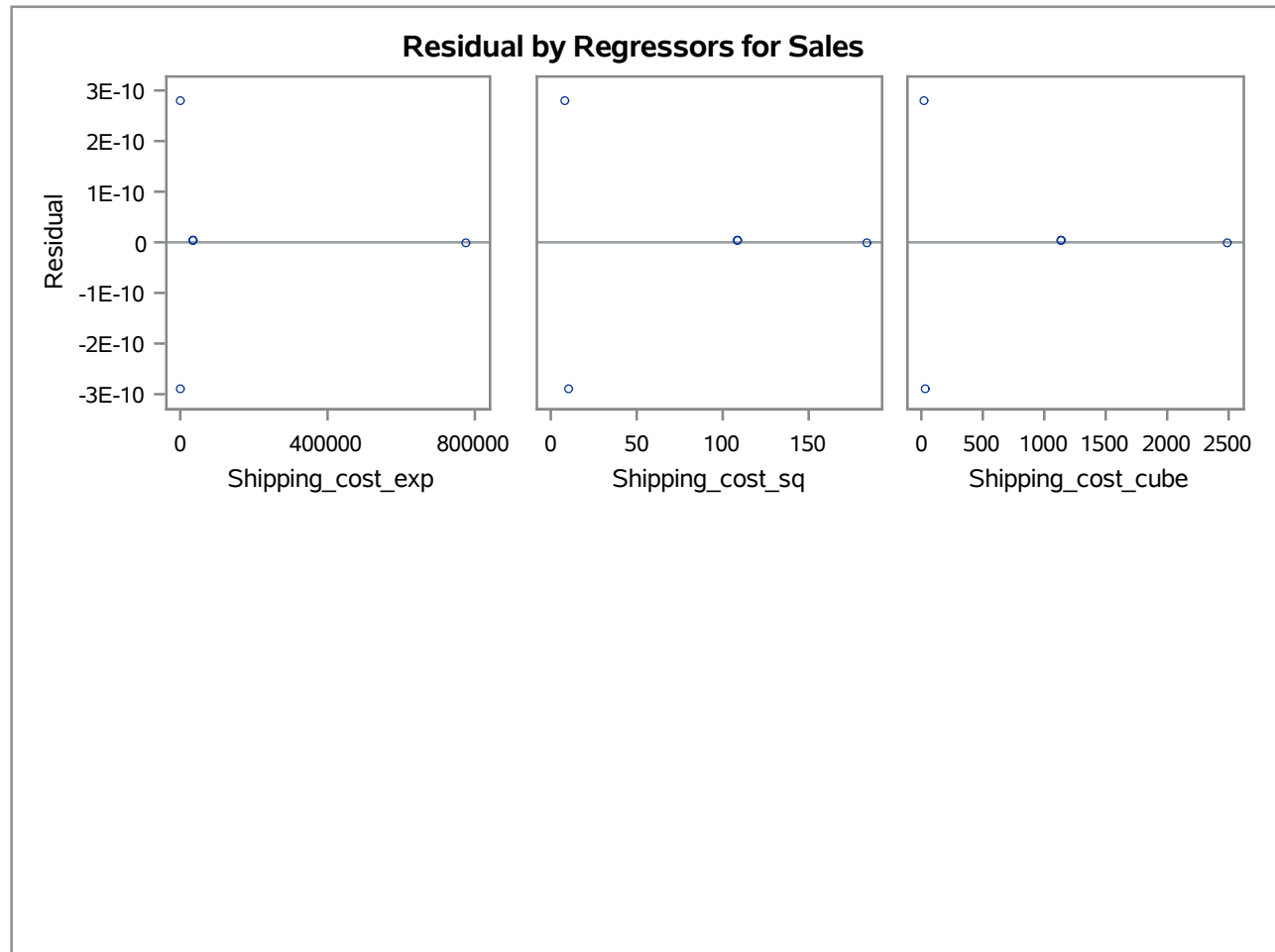
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=2



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=2



**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=3

Number of Observations Read	9
Number of Observations Used	9

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	14017	2336.14815	Infy	<.0001
Error	2	0	0		
Corrected Total	8	14017			

Root MSE	0	R-Square	1.0000
Dependent Mean	198.11111	Adj R-Sq	1.0000
Coeff Var	0		

**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.

<b>Discount =</b>	-0.03552 * Intercept + 0.00325 * Profit - 0.01205 * Profit_log - 207E-62 * Profit_exp - 0.00003 * Profit_sq + 1.18E-7 * Profit_cube - 12.4681 * Discount_sq
<b>Discount_log =</b>	-1.38077 * Intercept + 0.42852 * Profit - 4.15583 * Profit_log - 181E-60 * Profit_exp - 0.00395 * Profit_sq + 0.00001 * Profit_cube - 306.893 * Discount_sq
<b>Discount_exp =</b>	0.68716 * Intercept - 0.00036 * Profit + 0.0942 * Profit_log - 21E-61 * Profit_exp - 0.00001 * Profit_sq + 7.49E-8 * Profit_cube - 12.9108 * Discount_sq
<b>Discount_cube =</b>	-0.00001 * Intercept - 4.2E-6 * Profit + 0.00003 * Profit_log + 425E-65 * Profit_exp + 3.58E-8 * Profit_sq - 118E-12 * Profit_cube + 0.06047 * Discount_sq
<b>Shipping_cost =</b>	10.0676 * Intercept + 0.23091 * Profit - 3.85698 * Profit_log + 114E-62 * Profit_exp - 0.0007 * Profit_sq + 1.58E-6 * Profit_cube + 2.44988 * Discount_sq
<b>Shipping_cost_log =</b>	1.02572 * Intercept + 0.04328 * Profit - 0.2751 * Profit_log + 377E-63 * Profit_exp - 0.00023 * Profit_sq + 5.21E-7 * Profit_cube + 0.80992 * Discount_sq
<b>Shipping_cost_exp =</b>	-1417235 * Intercept + 153736 * Profit - 666252 * Profit_log - 613E-56 * Profit_exp - 1790.61 * Profit_sq + 7.03901 * Profit_cube - 1.814E7 * Discount_sq
<b>Shipping_cost_sq =</b>	-36.0298 * Intercept - 0.46851 * Profit + 13.8032 * Profit_log - 408E-62 * Profit_exp + 0.0125 * Profit_sq - 5.64E-6 * Profit_cube - 8.76757 * Discount_sq
<b>Shipping_cost_cube =</b>	-769.372 * Intercept - 10.0045 * Profit + 294.752 * Profit_log - 871E-61 * Profit_exp + 0.05329 * Profit_sq + 0.00088 * Profit_cube - 187.221 * Discount_sq

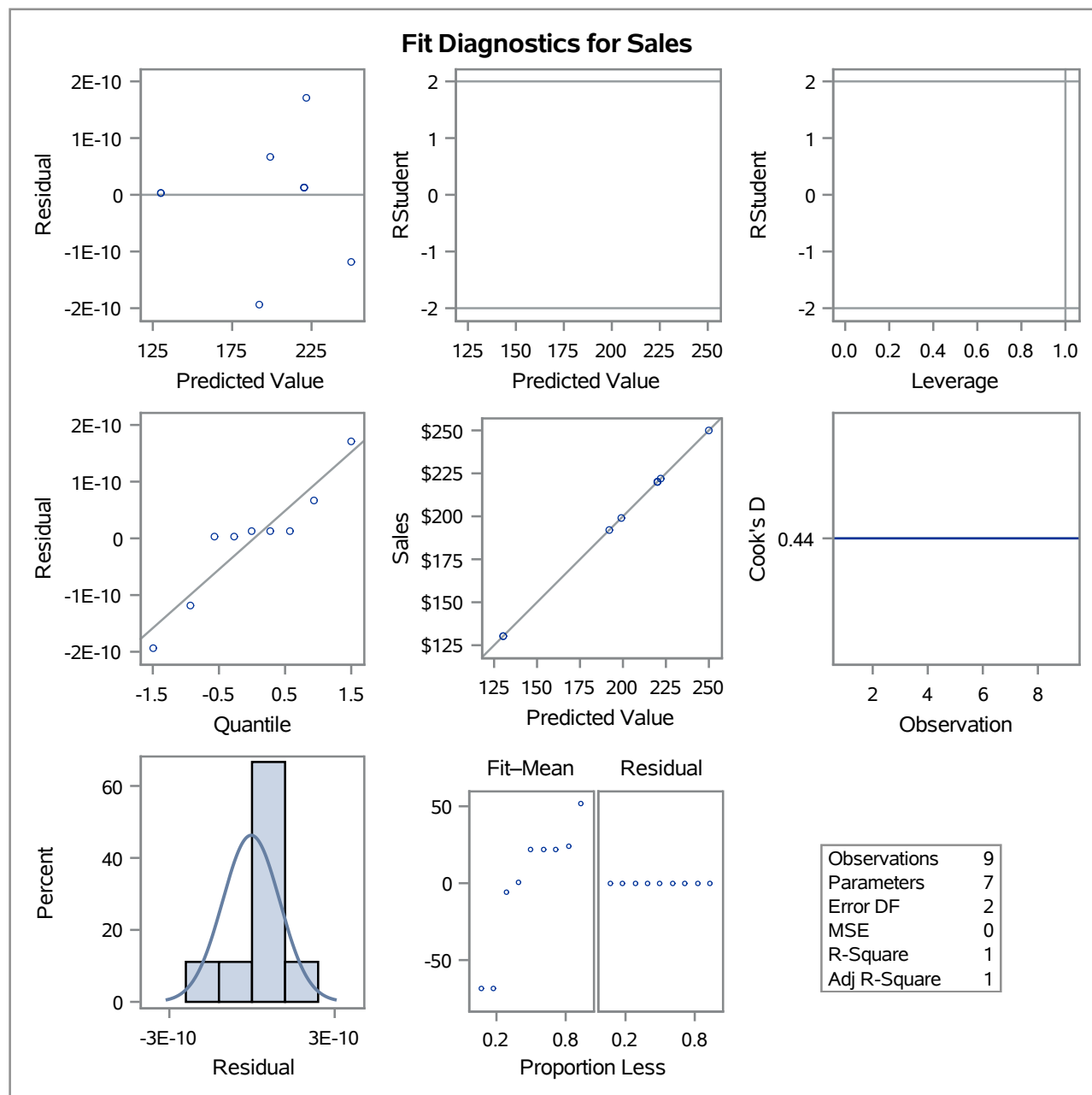
**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=3

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	B	107.91780	0	Infy	<.0001
Profit	Profit	B	5.92071	0	Infy	<.0001
Profit_log		B	-42.93163	0	-Infy	<.0001
Profit_exp		B	-2.5671E-57	0	-Infy	<.0001
Profit_sq		B	-0.04944	0	-Infy	<.0001
Profit_cube		B	0.00018260	0	Infy	<.0001
Discount	Discount	0	0	.	.	.
Discount_log		0	0	.	.	.
Discount_exp		0	0	.	.	.
Discount_sq		B	7836.61220	0	Infy	<.0001
Discount_cube		0	0	.	.	.
Shipping_cost	Shipping Cost	0	0	.	.	.
Shipping_cost_log		0	0	.	.	.
Shipping_cost_exp		0	0	.	.	.
Shipping_cost_sq		0	0	.	.	.
Shipping_cost_cube		0	0	.	.	.

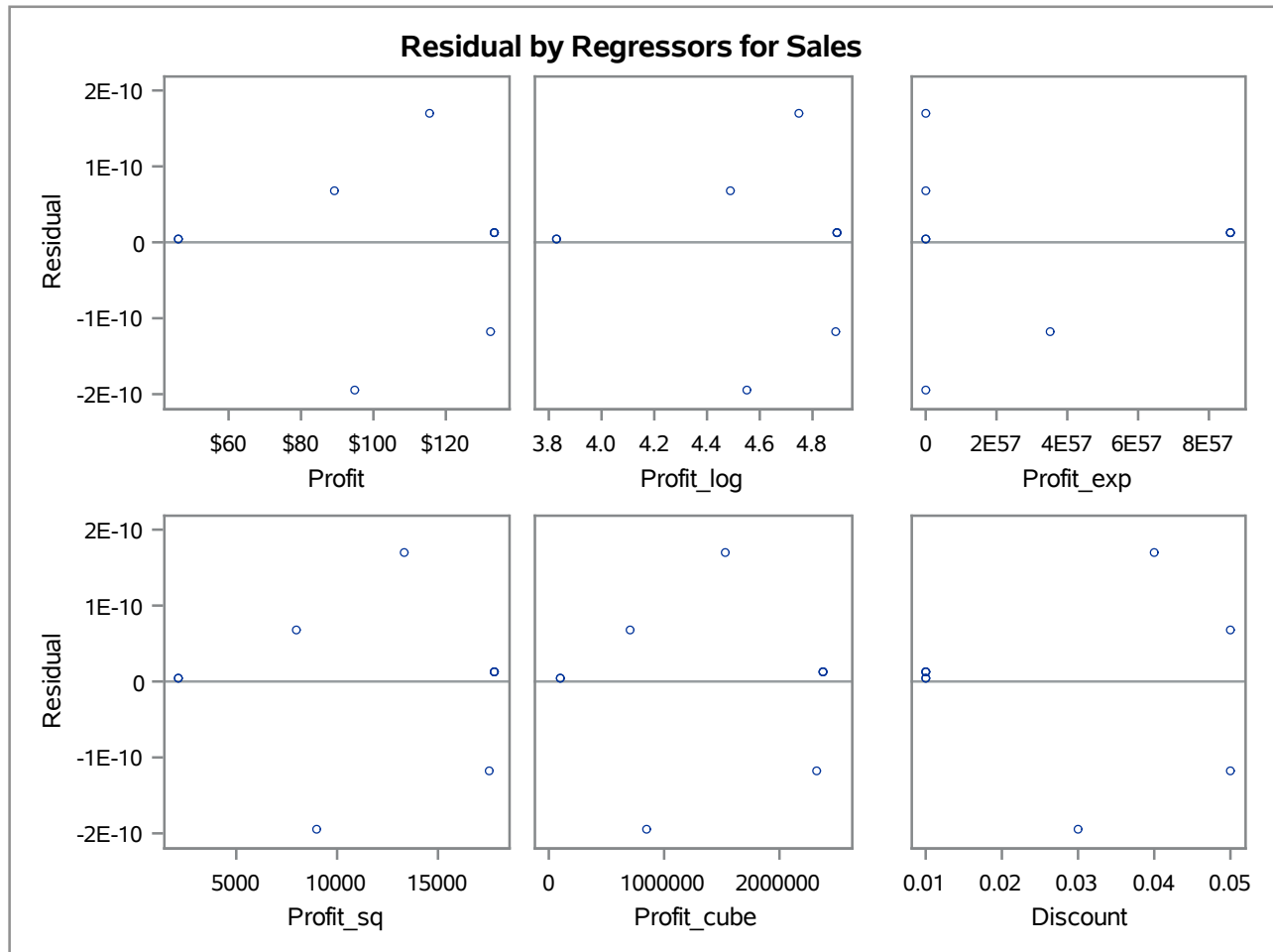
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=3



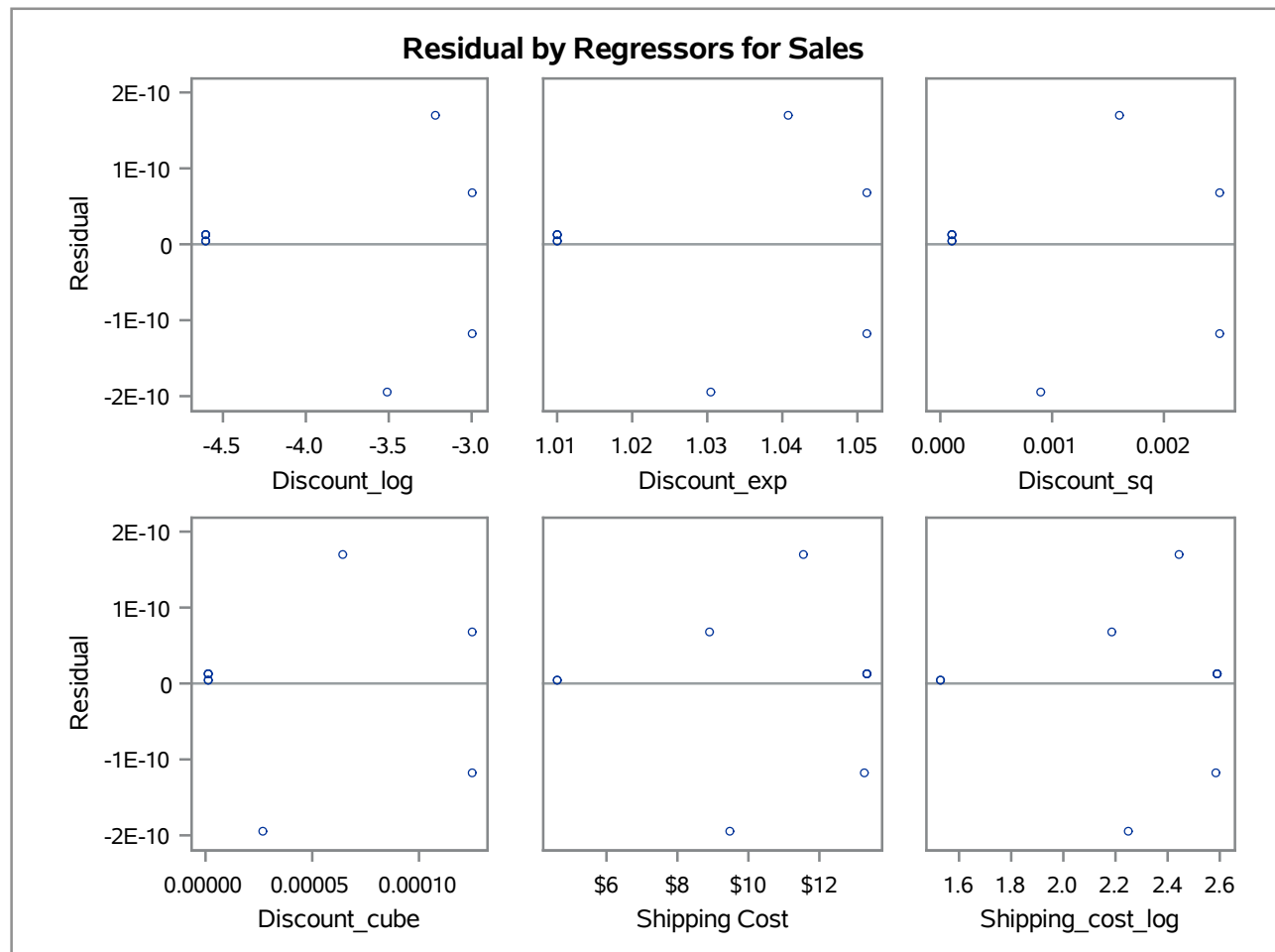
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=3



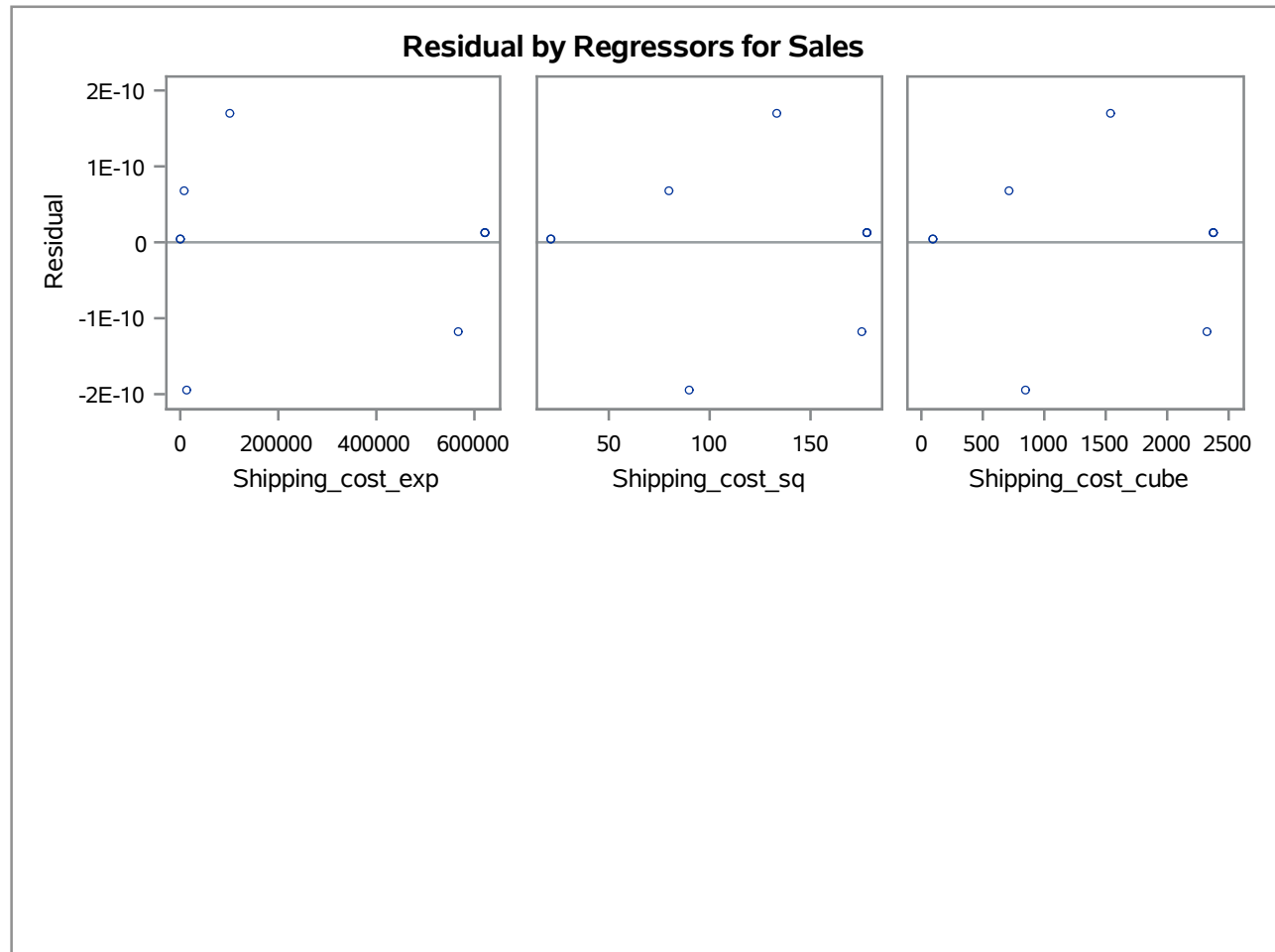
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=3



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=3





**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=4

Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	24876	4975.14286	3.42E12	<.0001
Error	1	1.453305E-9	1.453305E-9		
Corrected Total	6	24876			

Root MSE	0.00003812	R-Square	1.0000
Dependent Mean	121.42857	Adj R-Sq	1.0000
Coeff Var	0.00003139		

**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.

<b>Discount =</b>	0.38953 * Intercept + 0.05663 * Profit - 0.36855 * Profit_log - 173E-52 * Profit_exp - 0.00108 * Profit_sq + 7.39E-6 * Profit_cube
<b>Discount_log =</b>	-1.66503 * Intercept + 0.88072 * Profit - 4.29552 * Profit_log - 238E-51 * Profit_exp - 0.01776 * Profit_sq + 0.00012 * Profit_cube
<b>Discount_exp =</b>	1.40981 * Intercept + 0.05934 * Profit - 0.38718 * Profit_log - 181E-52 * Profit_exp - 0.00113 * Profit_sq + 7.74E-6 * Profit_cube
<b>Discount_sq =</b>	0.03965 * Intercept + 0.0053 * Profit - 0.03645 * Profit_log - 166E-53 * Profit_exp - 0.0001 * Profit_sq + 6.86E-7 * Profit_cube
<b>Discount_cube =</b>	0.00269 * Intercept + 0.00035 * Profit - 0.00243 * Profit_log - 11E-53 * Profit_exp - 6.46E-6 * Profit_sq + 4.47E-8 * Profit_cube
<b>Shipping_cost =</b>	734E-12 * Intercept + 0.1 * Profit - 642E-12 * Profit_log - 314E-61 * Profit_exp - 167E-14 * Profit_sq + 119E-16 * Profit_cube
<b>Shipping_cost_log =</b>	-2.30259 * Intercept + 142E-13 * Profit + 1 * Profit_log - 503E-62 * Profit_exp - 267E-15 * Profit_sq + 19E-16 * Profit_cube
<b>Shipping_cost_exp =</b>	146.948 * Intercept + 28.6796 * Profit - 157.643 * Profit_log + 758E-48 * Profit_exp - 0.79319 * Profit_sq + 0.00957 * Profit_cube
<b>Shipping_cost_sq =</b>	2.99E-9 * Intercept + 358E-12 * Profit - 2.61E-9 * Profit_log - 126E-60 * Profit_exp + 0.01 * Profit_sq + 48E-15 * Profit_cube
<b>Shipping_cost_cube =</b>	-6.78E-8 * Intercept - 8.16E-9 * Profit + 5.93E-8 * Profit_log + 29E-58 * Profit_exp + 154E-12 * Profit_sq + 0.001 * Profit_cube

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	B	-17.89427	0.00214	-8378.0	<.0001
Profit	Profit	B	-0.04574	0.00025415	-179.97	0.0035
Profit_log		B	20.70920	0.00185	11164.1	<.0001
Profit_exp		B	8.02459E-48	9.04218E-53	88746.2	<.0001
Profit_sq		B	0.12480	0.00000479	26081.0	<.0001
Profit_cube		B	-0.00164	3.414324E-8	-48166	<.0001

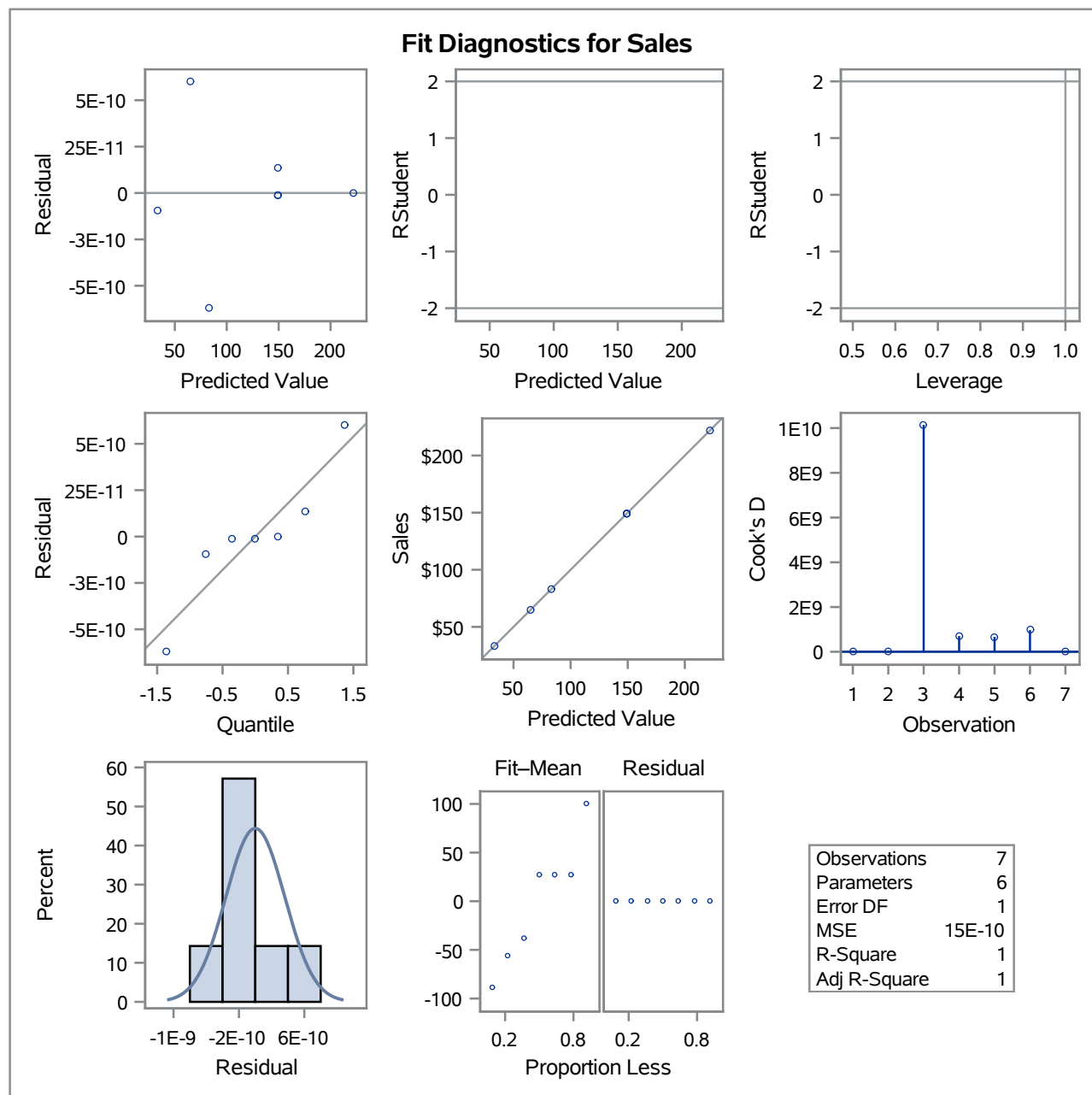
**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=4

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Discount	Discount	0	0	.	.	.
Discount_log		0	0	.	.	.
Discount_exp		0	0	.	.	.
Discount_sq		0	0	.	.	.
Discount_cube		0	0	.	.	.
Shipping_cost	Shipping Cost	0	0	.	.	.
Shipping_cost_log		0	0	.	.	.
Shipping_cost_exp		0	0	.	.	.
Shipping_cost_sq		0	0	.	.	.
Shipping_cost_cube		0	0	.	.	.

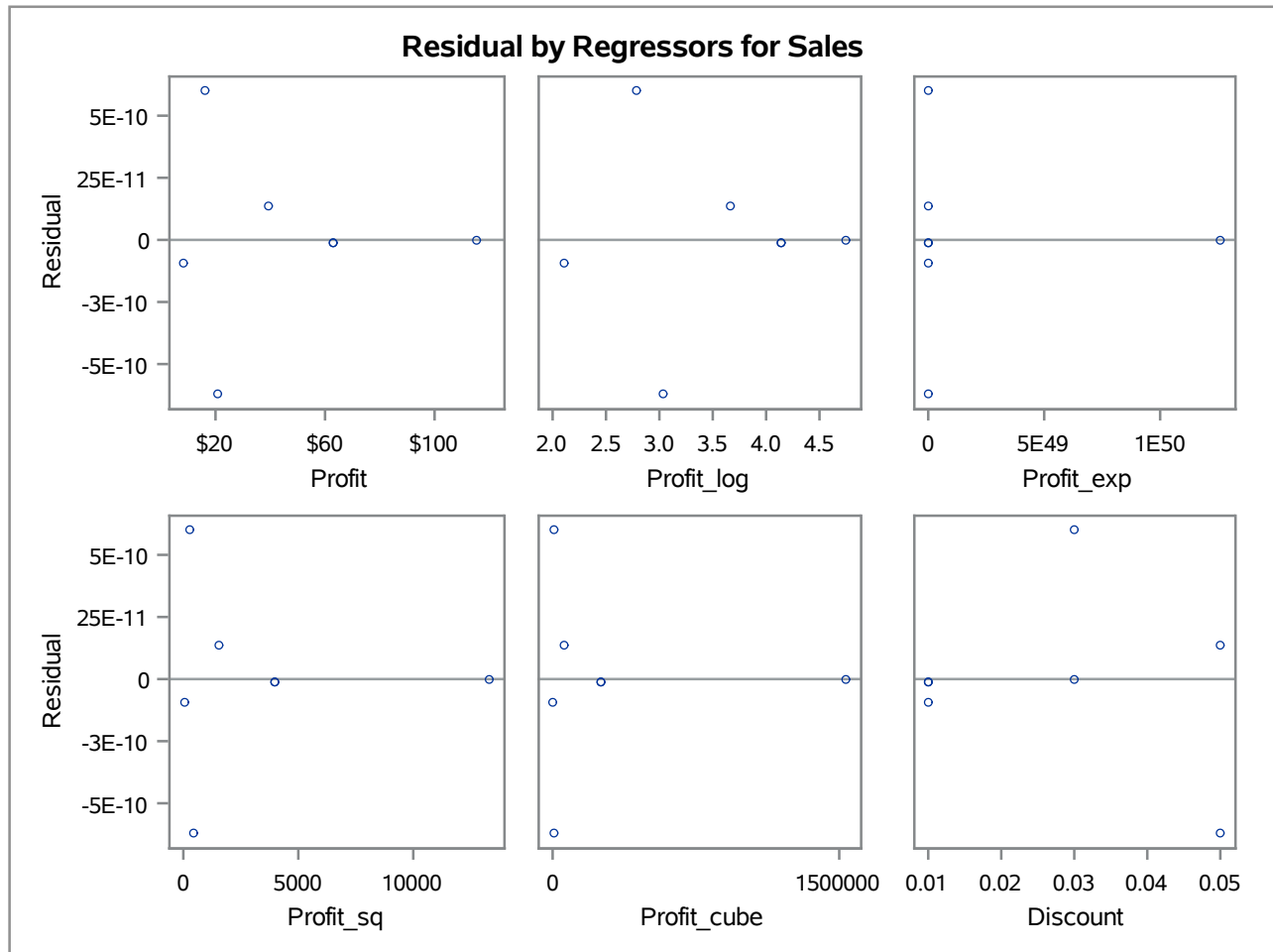
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=4



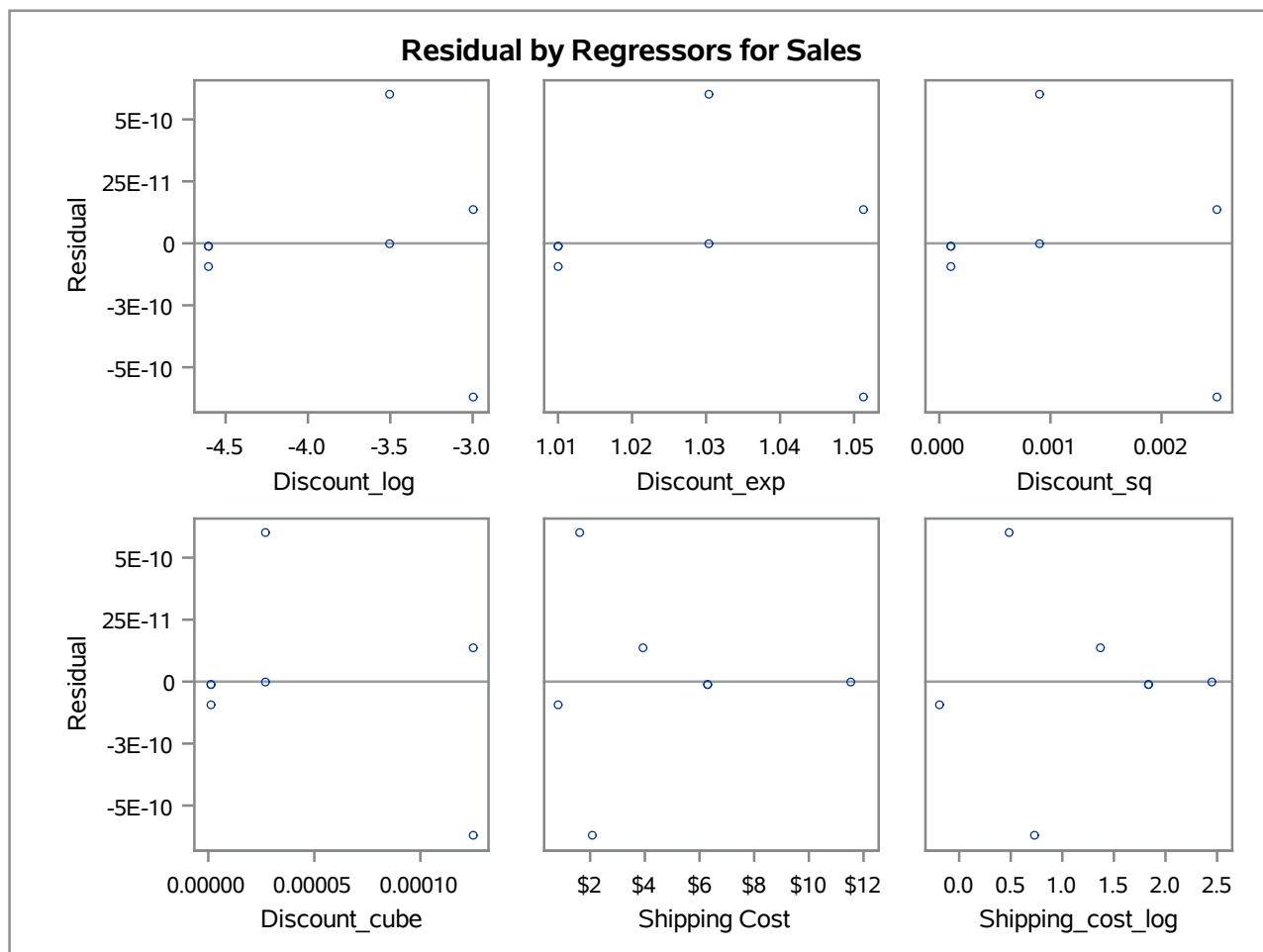
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=4



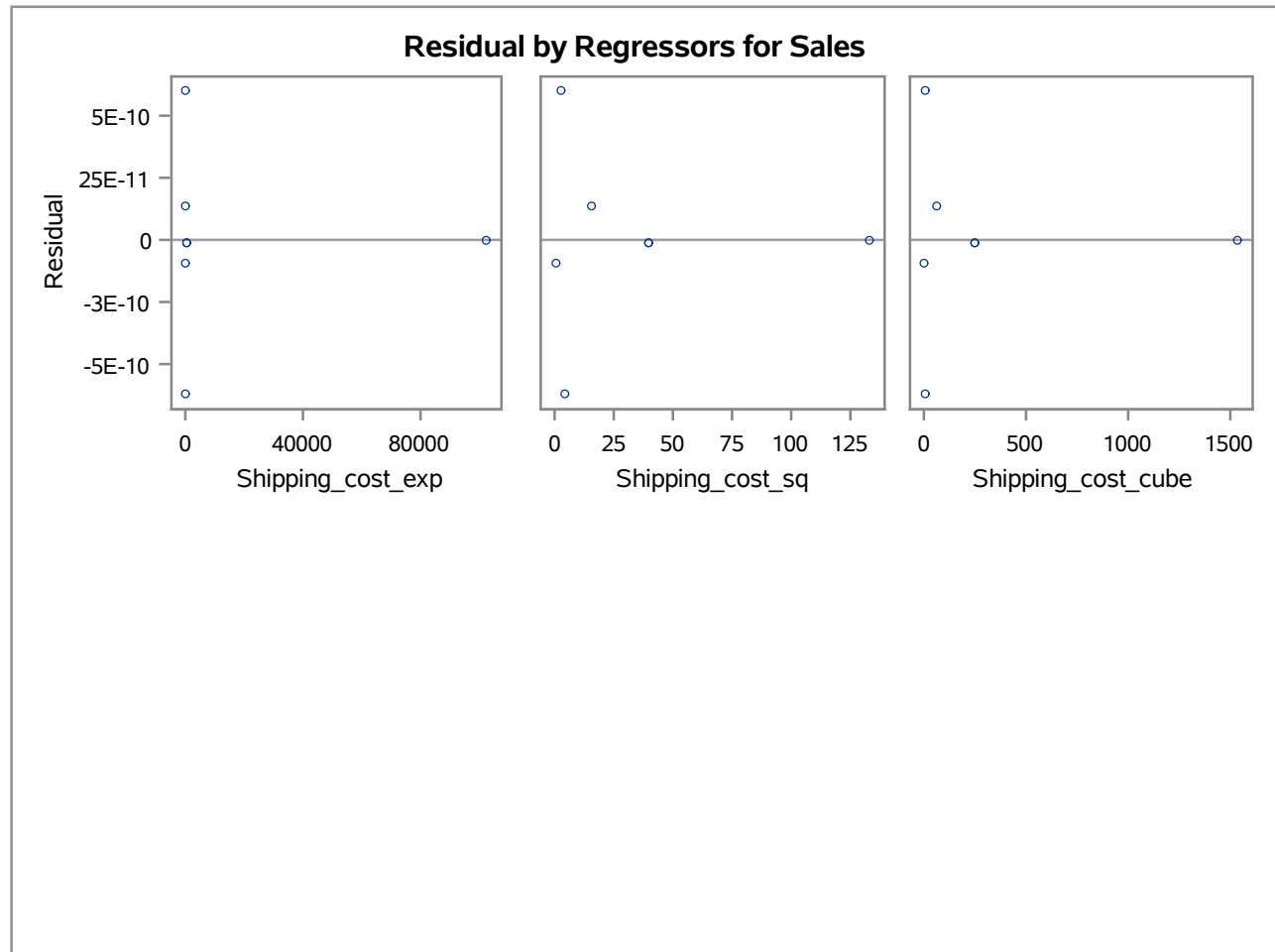
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=4



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=4



**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

Quantity=5

Number of Observations Read	5
Number of Observations Used	5

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	11299	2824.70000	.	.
Error	0	0	.	.	.
Corrected Total	4	11299	.	.	.

Root MSE	.	R-Square	1.0000
Dependent Mean	152.80000	Adj R-Sq	.
Coeff Var	.		

**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.

<b>Profit_cube =</b>	-25232.9 * Intercept - 8657.46 * Profit + 43799 * Profit_log + 144E-44 * Profit_exp + 168.531 * Profit_sq
<b>Discount =</b>	0.07858 * Intercept + 0.00077 * Profit - 0.02636 * Profit_log + 279E-51 * Profit_exp - 1.41E-6 * Profit_sq
<b>Discount_log =</b>	-2.29438 * Intercept - 0.01668 * Profit - 0.55139 * Profit_log + 521E-50 * Profit_exp + 0.00026 * Profit_sq
<b>Discount_exp =</b>	1.08096 * Intercept + 0.00082 * Profit - 0.02744 * Profit_log + 289E-51 * Profit_exp - 1.62E-6 * Profit_sq
<b>Discount_sq =</b>	0.00468 * Intercept + 0.0001 * Profit - 0.00211 * Profit_log + 197E-52 * Profit_exp - 4.13E-7 * Profit_sq
<b>Discount_cube =</b>	0.00025 * Intercept + 6.33E-6 * Profit - 0.00012 * Profit_log + 964E-54 * Profit_exp - 3.06E-8 * Profit_sq
<b>Shipping_cost =</b>	0.1 * Profit
<b>Shipping_cost_log =</b>	-2.30259 * Intercept + Profit_log
<b>Shipping_cost_exp =</b>	-1167.94 * Intercept - 340.489 * Profit + 1888.64 * Profit_log + 648E-45 * Profit_exp + 4.71993 * Profit_sq
<b>Shipping_cost_sq =</b>	0.01 * Profit_sq
<b>Shipping_cost_cube =</b>	-25.2329 * Intercept - 8.65746 * Profit + 43.799 * Profit_log + 144E-47 * Profit_exp + 0.16853 * Profit_sq

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	B	124.54673	.	.	.
Profit	Profit	B	1.47715	.	.	.
Profit_log		B	-15.56609	.	.	.
Profit_exp		B	3.59357E-46	.	.	.
Profit_sq		B	-0.00003996	.	.	.

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Sales Sales**

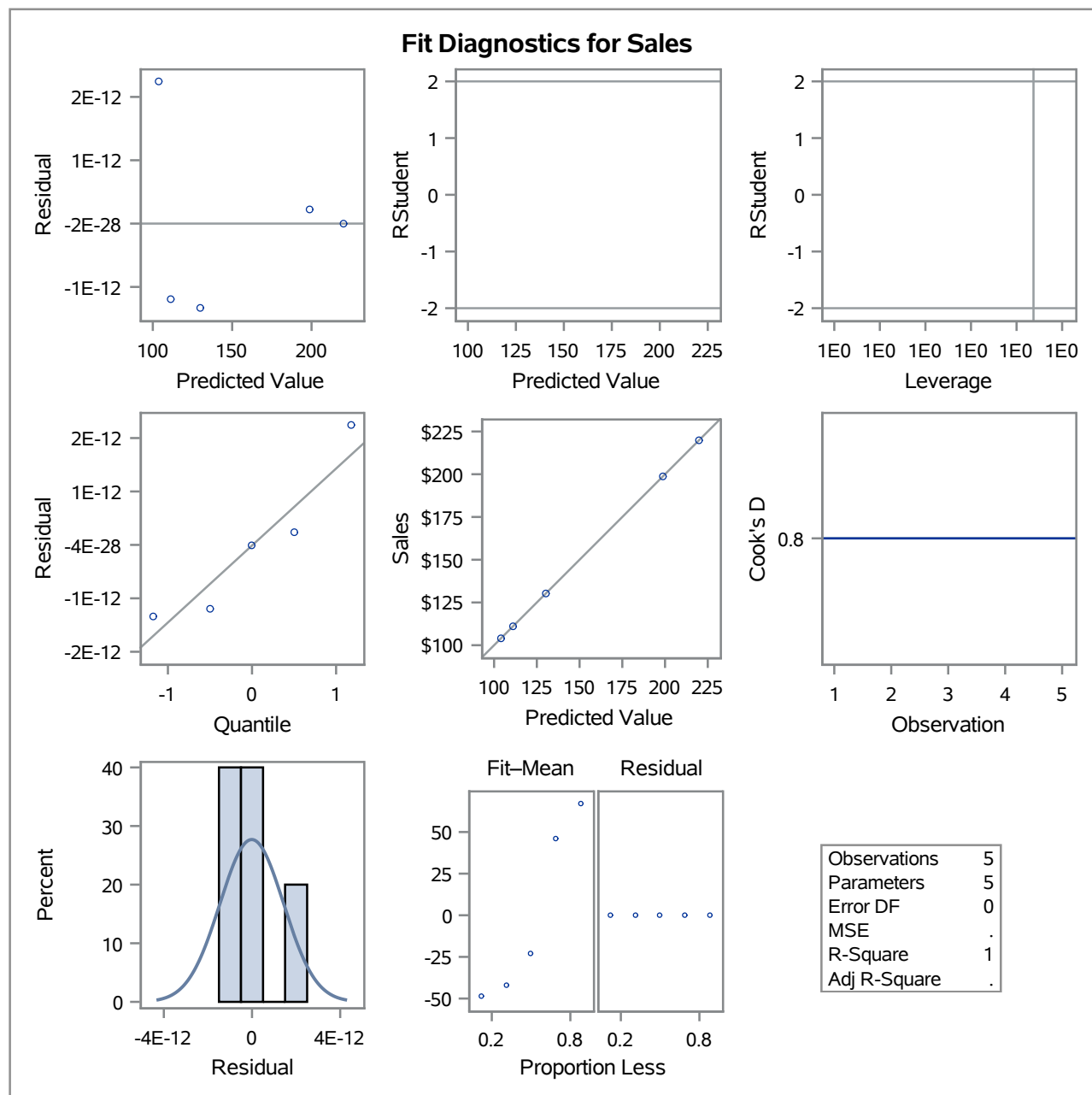
Quantity=5

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Profit_cube		0	0	.	.	.
Discount	Discount	0	0	.	.	.
Discount_log		0	0	.	.	.
Discount_exp		0	0	.	.	.
Discount_sq		0	0	.	.	.
Discount_cube		0	0	.	.	.
Shipping_cost	Shipping Cost	0	0	.	.	.
Shipping_cost_log		0	0	.	.	.
Shipping_cost_exp		0	0	.	.	.
Shipping_cost_sq		0	0	.	.	.
Shipping_cost_cube		0	0	.	.	.



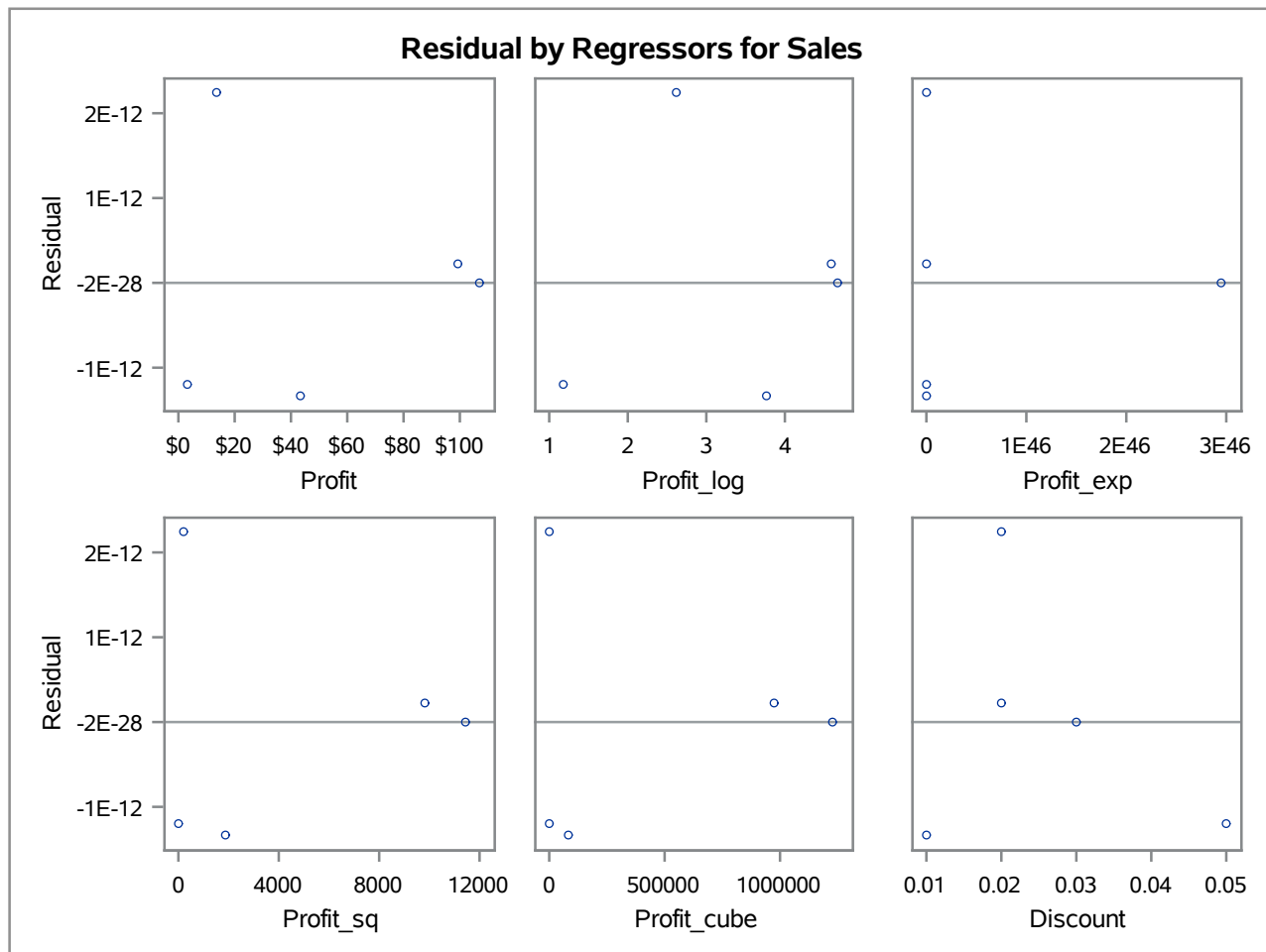
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=5



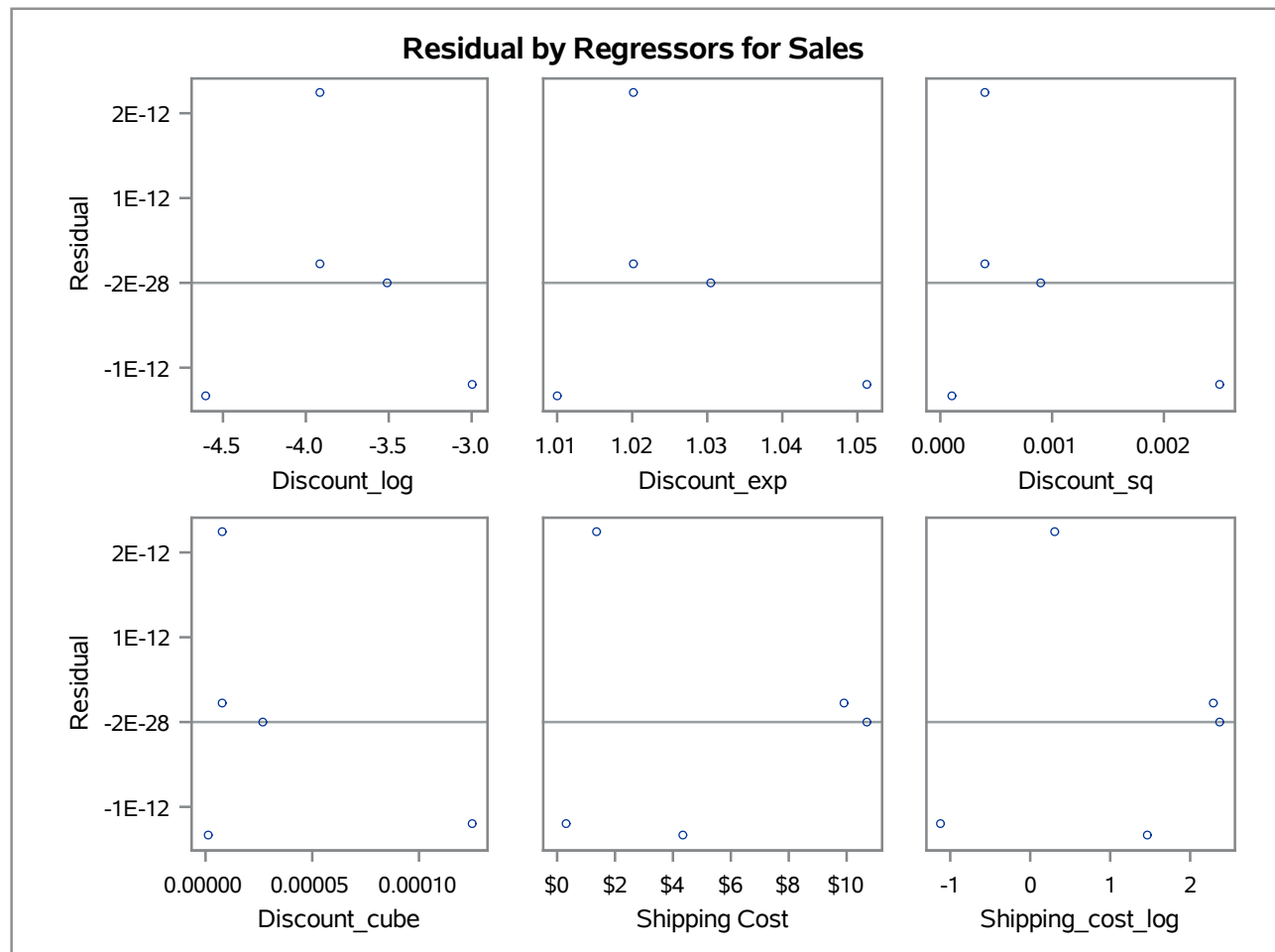
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=5



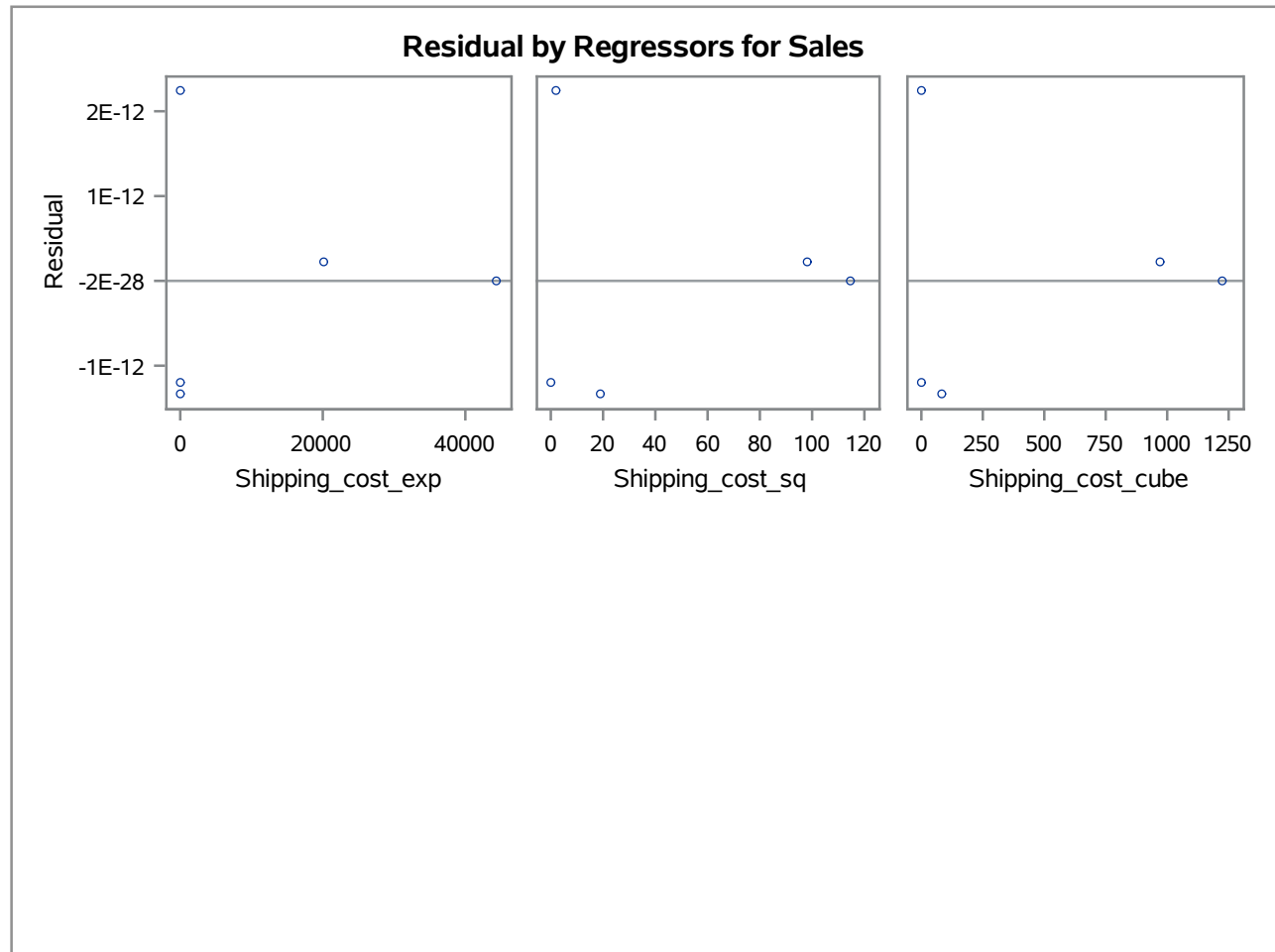
The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=5



The REG Procedure  
Model: MODEL1  
Dependent Variable: Sales Sales

Quantity=5



Obs	Order_ID	Products	Sales	Predicted_Sales	Error_in_Sales	Quantity	Discount	Profit	Shipping_cost
1	110002	Product2	\$104.0	104.000	5.91172E-12	1	0.03	\$20.9	\$2.1
2	110019	Product2	\$33.0	33.000	-6.5938E-12	1	0.03	\$33.0	\$3.3
3	110021	Product4	\$83.0	83.000	6.82121E-13	1	0.05	\$83.0	\$8.3
4	110001	Product1	\$220.0	220.000	-7.3896E-13	2	0.01	\$135.6	\$13.6
5	110006	Product6	\$111.0	111.000	2.79215E-10	2	0.01	\$28.8	\$2.9
6	110022	Product5	\$192.0	192.000	3.46745E-12	2	0.02	\$104.3	\$10.4
7	110023	Product6	\$65.0	65.000	-2.8876E-10	2	0.04	\$32.5	\$3.3
8	110026	Product9	\$192.0	192.000	3.46745E-12	2	0.02	\$104.3	\$10.4
9	110030	Product4	\$192.0	192.000	3.46745E-12	2	0.02	\$104.3	\$10.4
10	110005	Product5	\$199.0	199.000	6.71321E-11	3	0.05	\$89.2	\$8.9
11	110008	Product8	\$250.0	250.000	-1.1784E-10	3	0.05	\$132.5	\$13.3

Obs	Profit_log	Profit_exp	Profit_sq	Profit_cube	Discount_log	Discount_exp	Discount_sq	Discount_cube
1	3.03879	1169684627.18	435.97	9103.15	-3.50656	1.03045	.0009	.000027
2	3.49651	2.1464358E14	1089.00	35937.00	-3.50656	1.03045	.0009	.000027
3	4.41884	1.11286375E36	6889.00	571787.00	-2.99573	1.05127	.0025	.000125
4	4.90971	7.76840298E58	18387.36	2493326.02	-4.60517	1.01005	.0001	.000001
5	3.35968	3154969674533	828.29	23838.14	-4.60517	1.01005	.0001	.000001
6	4.64746	2.02115841E45	10882.66	1135279.34	-3.91202	1.02020	.0004	.000008
7	3.48124	1.30187912E14	1056.25	34328.13	-3.21888	1.04081	.0016	.000064
8	4.64746	2.02115841E45	10882.66	1135279.34	-3.91202	1.02020	.0004	.000008
9	4.64746	2.02115841E45	10882.66	1135279.34	-3.91202	1.02020	.0004	.000008
10	4.49032	5.21618591E38	7947.72	708539.46	-2.99573	1.05127	.0025	.000125
11	4.88658	3.49960358E57	17556.25	2326203.13	-2.99573	1.05127	.0025	.000125

Obs	Shipping_cost_log	Shipping_cost_exp	Shipping_cost_sq	Shipping_cost_cube
1	0.73621	8.07	4.360	9.10
2	1.19392	27.11	10.890	35.94
3	2.11626	4023.87	68.890	571.79
4	2.60712	774520.96	183.874	2493.33
5	1.05710	17.78	8.283	23.84
6	2.34488	33928.14	108.827	1135.28
7	1.17865	25.79	10.563	34.33
8	2.34488	33928.14	108.827	1135.28
9	2.34488	33928.14	108.827	1135.28
10	2.18774	7442.78	79.477	708.54
11	2.58400	568070.04	175.563	2326.20

Obs	Order_ID	Products	Sales	Predicted_Sales	Error_in_Sales	Quantity	Discount	Profit	Shipping_cost
12	110010	Product1	\$192.0	192.000	-1.9412E-10	3	0.03	\$94.7	\$9.5
13	110016	Product7	\$222.0	222.000	1.70502E-10	3	0.04	\$115.4	\$11.5
14	110024	Product7	\$130.0	130.000	4.03588E-12	3	0.01	\$46.1	\$4.6
15	110025	Product8	\$220.0	220.000	1.27613E-11	3	0.01	\$133.4	\$13.3
16	110027	Product1	\$220.0	220.000	1.27613E-11	3	0.01	\$133.4	\$13.3
17	110028	Product2	\$130.0	130.000	4.03588E-12	3	0.01	\$46.1	\$4.6
18	110029	Product3	\$220.0	220.000	1.27613E-11	3	0.01	\$133.4	\$13.3
19	110003	Product3	\$149.0	149.000	-1.1539E-11	4	0.01	\$63.0	\$6.3
20	110004	Product4	\$222.0	222.000	-9.0949E-13	4	0.03	\$115.4	\$11.5
21	110007	Product7	\$33.0	33.000	-9.3841E-11	4	0.01	\$8.3	\$0.8
22	110009	Product9	\$83.0	83.000	-6.211E-10	4	0.05	\$20.8	\$2.1

Obs	Profit_log	Profit_exp	Profit_sq	Profit_cube	Discount_log	Discount_exp	Discount_sq	Discount_cube
12	4.55093	1.36890505E41	8971.88	849816.32	-3.50656	1.03045	.0009	.000027
13	4.74806	1.25953846E50	13307.93	1535202.76	-3.21888	1.04081	.0016	.000064
14	3.83081	1.0494835E20	2125.21	97972.18	-4.60517	1.01005	.0001	.000001
15	4.89335	8.60763585E57	17795.56	2373927.70	-4.60517	1.01005	.0001	.000001
16	4.89335	8.60763585E57	17795.56	2373927.70	-4.60517	1.01005	.0001	.000001
17	3.83081	1.0494835E20	2125.21	97972.18	-4.60517	1.01005	.0001	.000001
18	4.89335	8.60763585E57	17795.56	2373927.70	-4.60517	1.01005	.0001	.000001
19	4.14377	2.38739423E27	3974.04	250523.58	-4.60517	1.01005	.0001	.000001
20	4.74806	1.25953846E50	13307.93	1535202.76	-3.50656	1.03045	.0009	.000027
21	2.11021	3827.63	68.06	561.52	-4.60517	1.01005	.0001	.000001
22	3.03255	1027094726.74	430.56	8934.17	-2.99573	1.05127	.0025	.000125

Obs	Shipping_cost_log	Shipping_cost_exp	Shipping_cost_sq	Shipping_cost_cube
12	2.24834	12990.84	89.719	849.82
13	2.44547	102334.28	133.079	1535.20
14	1.52823	100.48	21.252	97.97
15	2.59077	621567.63	177.956	2373.93
16	2.59077	621567.63	177.956	2373.93
17	1.52823	100.48	21.252	97.97
18	2.59077	621567.63	177.956	2373.93
19	1.84118	546.75	39.740	250.52
20	2.44547	102334.28	133.079	1535.20
21	-0.19237	2.28	0.681	0.56
22	0.72996	7.96	4.306	8.93

Obs	Order_ID	Products	Sales	Predicted_Sales	Error_in_Sales	Quantity	Discount	Profit	Shipping_cost
23	110011	Product2	\$65.0	65.000	6.01631E-10	4	0.03	\$16.3	\$1.6
24	110015	Product6	\$149.0	149.000	1.36083E-10	4	0.05	\$39.2	\$3.9
25	110020	Product3	\$149.0	149.000	-1.1539E-11	4	0.01	\$63.0	\$6.3
26	110012	Product3	\$130.0	130.000	-1.3358E-12	5	0.01	\$43.5	\$4.4
27	110013	Product4	\$220.0	220.000	0	5	0.03	\$107.0	\$10.7
28	110014	Product5	\$104.0	104.000	2.24532E-12	5	0.02	\$13.6	\$1.4
29	110017	Product8	\$199.0	199.000	2.27374E-13	5	0.02	\$99.1	\$9.9
30	110018	Product1	\$111.0	111.000	-1.1937E-12	5	0.05	\$3.2	\$0.3

Obs	Profit_log	Profit_exp	Profit_sq	Profit_cube	Discount_log	Discount_exp	Discount_sq	Discount_cube
23	2.78809	11409991.76	264.06	4291.02	-3.50656	1.03045	.0009	.000027
24	3.66868	1.05765418E17	1536.64	60236.29	-2.99573	1.05127	.0025	.000125
25	4.14377	2.38739423E27	3974.04	250523.58	-4.60517	1.01005	.0001	.000001
26	3.77276	7.7948895E18	1892.25	82312.88	-4.60517	1.01005	.0001	.000001
27	4.67283	2.94787839E46	11449.00	1225043.00	-3.50656	1.03045	.0009	.000027
28	2.61007	806129.76	184.96	2515.46	-3.91202	1.02020	.0004	.000008
29	4.59613	1.09290687E43	9820.81	973242.27	-3.91202	1.02020	.0004	.000008
30	1.17865	25.79	10.56	34.33	-2.99573	1.05127	.0025	.000125

Obs	Shipping_cost_log	Shipping_cost_exp	Shipping_cost_sq	Shipping_cost_cube
23	0.48551	5.08	2.641	4.29
24	1.36609	50.40	15.366	60.24
25	1.84118	546.75	39.740	250.52
26	1.47018	77.48	18.923	82.31
27	2.37024	44355.86	114.490	1225.04
28	0.30748	3.90	1.850	2.52
29	2.29354	20130.67	98.208	973.24
30	-1.12393	1.38	0.106	0.03