Regression Line for Rent-Size Data

The REG Procedure
Model: MODEL1
Dependent Variable: rent

Number of Observations Read	25
Number of Observations Used	25

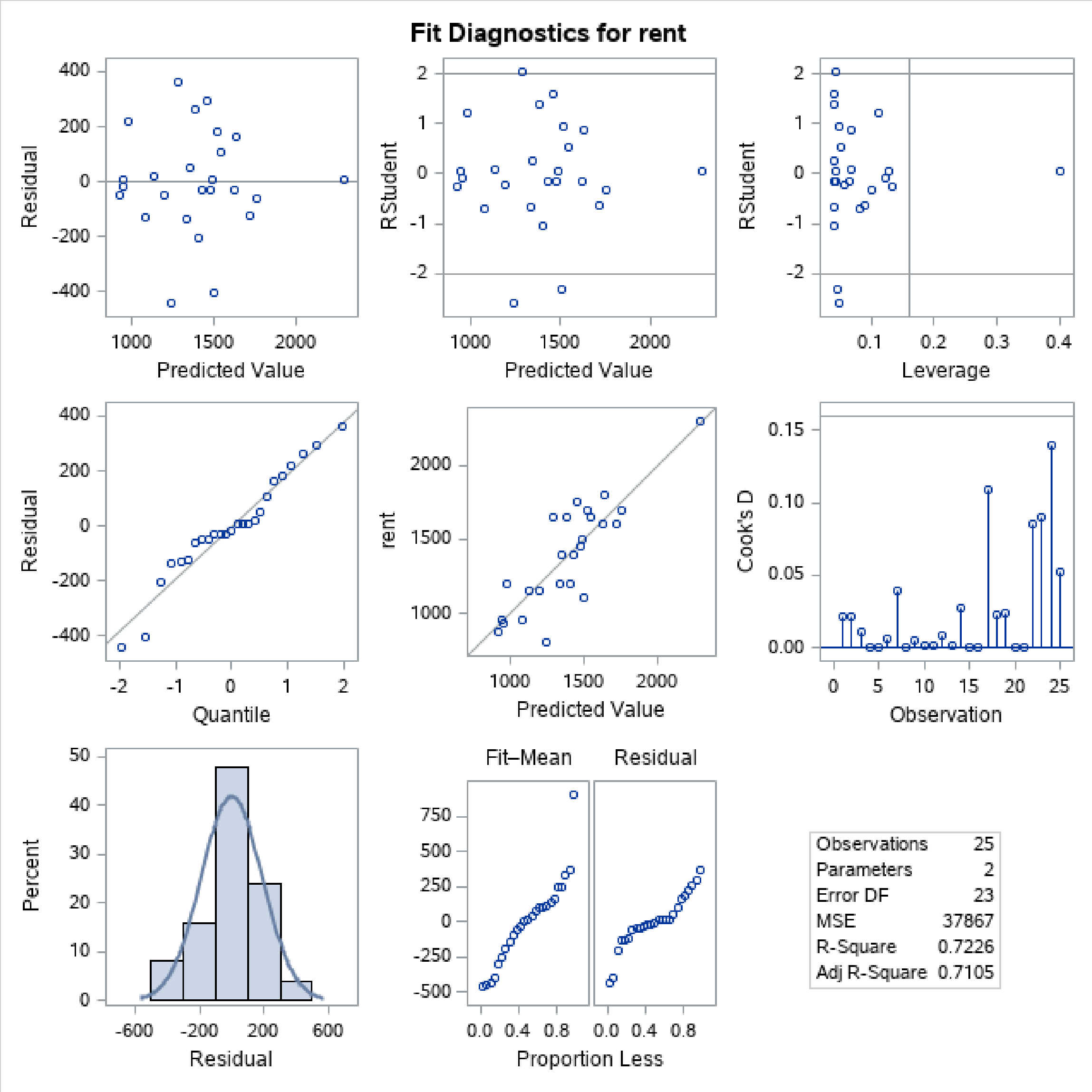
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2268777	2268777	59.91	<.0001
Error	23	870949	37867		
Corrected Total	24	3139726			

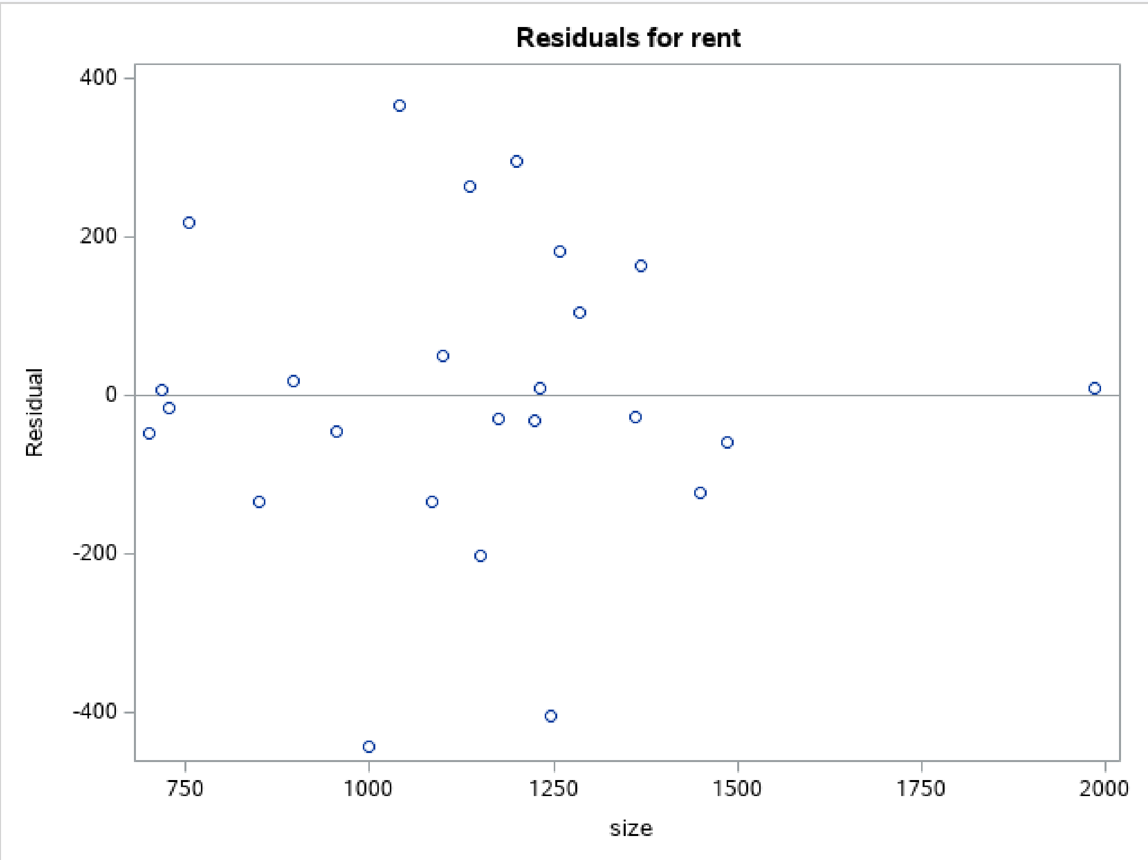
Root MSE	194.59539	R-Square	0.7226
Dependent Mean	1386.40000	Adj R-Sq	0.7105
Coeff Var	14.03602		

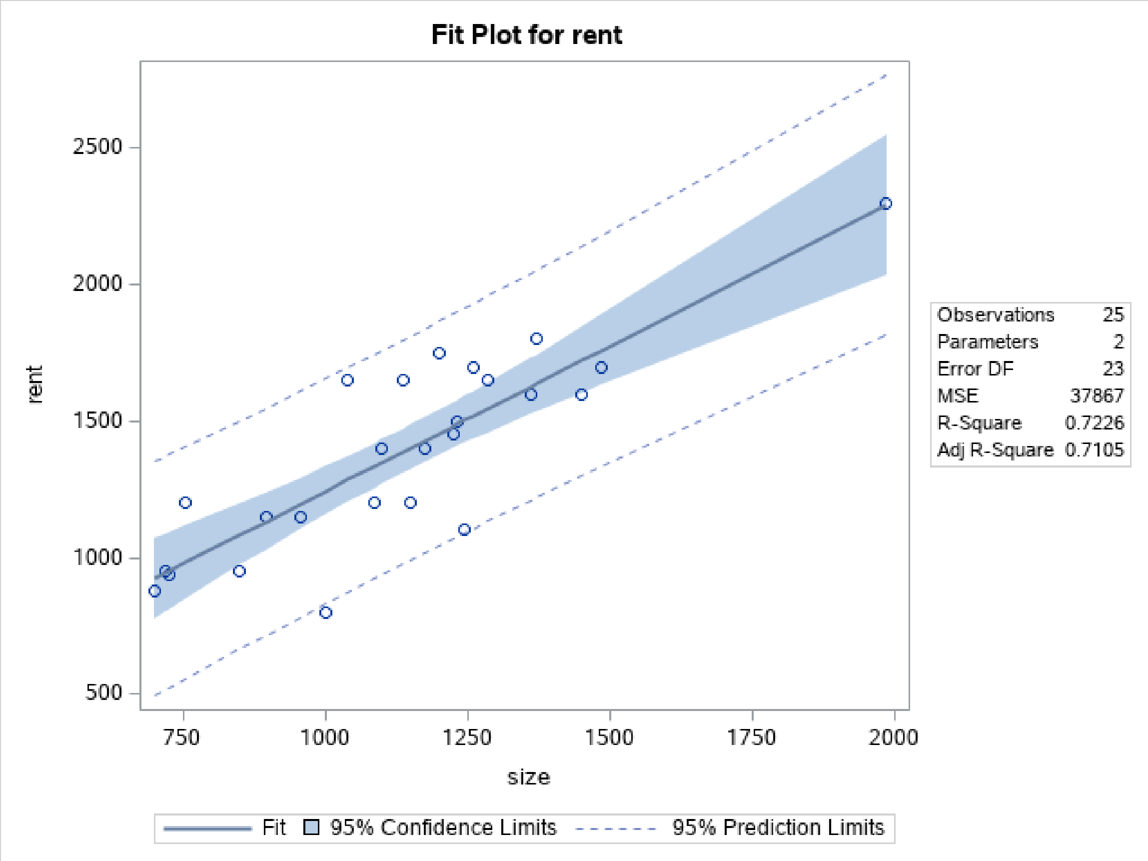
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	177.12082	161.00428	1.10	0.2827
size	1	1.06514	0.13761	7.74	<.0001

Regression Line for Rent-Size Data

The REG Procedure
Model: MODEL1
Dependent Variable: rent


Fit Diagnostics for rent
Residual
Predicted Value
RStudent
Leverage
Quantile
rent
Cook's D
Observation
Percent
Fit–Mean
Residual
Proportion Less
Observations 25
Parameters 2
Error DF 23
MSE 37867
R-Square 0.7226
Adj R-Square 0.7105


Residuals for rent
Residual
size



Regression Line for Rent-Size Data

The UNIVARIATE Procedure
Variable: resid (Residual)

Moments			
N	25	Sum Weights	25
Mean	0	Sum Observations	0
Std Deviation	190.498191	Variance	36289.5606
Skewness	-0.34465	Kurtosis	0.71256154
Uncorrected SS	870949.455	Corrected SS	870949.455
Coeff Variation	.	Std Error Mean	38.0996381

Basic Statistical Measures			
Location		Variability	
Mean	0.0000	Std Deviation	190.49819
Median	-15.4153	Variance	36290
Mode	.	Range	807.39424
		Interquartile Range	163.02878

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	0	Pr > |t|	1.0000
Sign	M	-0.5	Pr >= |M|	1.0000
Signed Rank	S	-6.5	Pr >= |S|	0.8653

Quantiles (Definition 5)	
Level	Quantile
100% Max	365.1295
99%	365.1295
95%	294.7065
90%	262.8757
75% Q3	104.1693
50% Median	-15.4153

Quantiles (Definition 5)	
Level	Quantile
25% Q1	-58.8595
10%	-202.0363
5%	-403.2250
1%	-442.2647
0% Min	-442.2647

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-442.265	24	181.863	18
-403.225	17	218.696	23
-202.036	19	262.876	7
-132.802	3	294.706	25
-132.493	1	365.130	22

Regression Line for Rent-Size Data

The UNIVARIATE Procedure
Fitted Normal Distribution for resid (Residual)

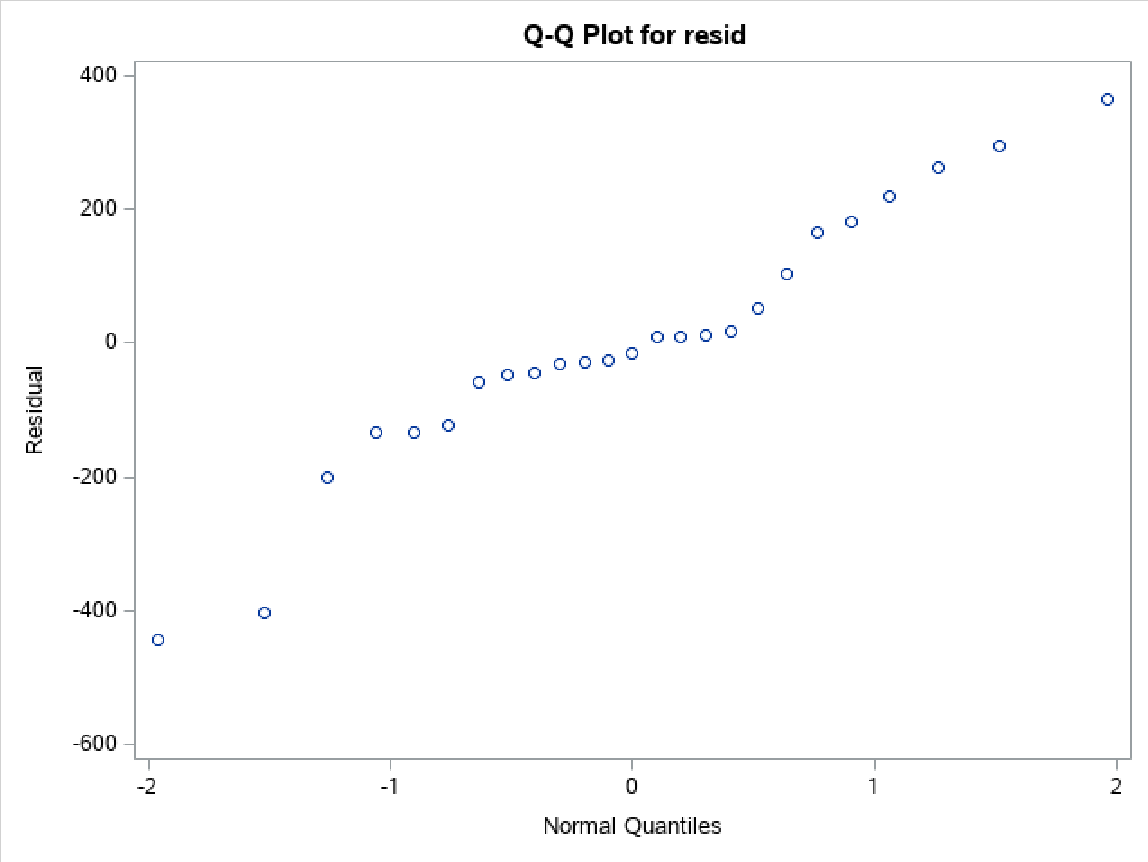
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	0
Std Dev	Sigma	190.4982

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.14129667	Pr > D	>0.150
Cramer-von Mises	W-Sq	0.09662969	Pr > W-Sq	0.121
Anderson-Darling	A-Sq	0.54325536	Pr > A-Sq	0.150

Quantiles for Normal Distribution		
	Quantile	
Percent	Observed	Estimated
1.0	-442.2647	-443.165
5.0	-403.2250	-313.342
10.0	-202.0363	-244.133
25.0	-58.8595	-128.489
50.0	-15.4153	0.000
75.0	104.1693	128.489
90.0	262.8757	244.133
95.0	294.7065	313.342
99.0	365.1295	443.165

Regression Line for Rent-Size Data

The UNIVARIATE Procedure


Q-Q Plot for resid
400
200
0
-200
-400
-600
Residual
-2
-1
0
1
2
Normal Quantiles