Obs	Team	Revenue	Value
1	Arizona Cardinals	203	914
2	Atlanta Falcons	203	872
3	Baltimore Ravens	226	1062
4	Buffalo Bills	206	885
5	Carolina Panthers	221	1040
6	Chicago Bears	226	1064
7	Cincinnati Bengals	205	941
8	Cleveland Browns	220	1035
9	Dallas Cowboys	269	1612
10	Denver Broncos	226	1061

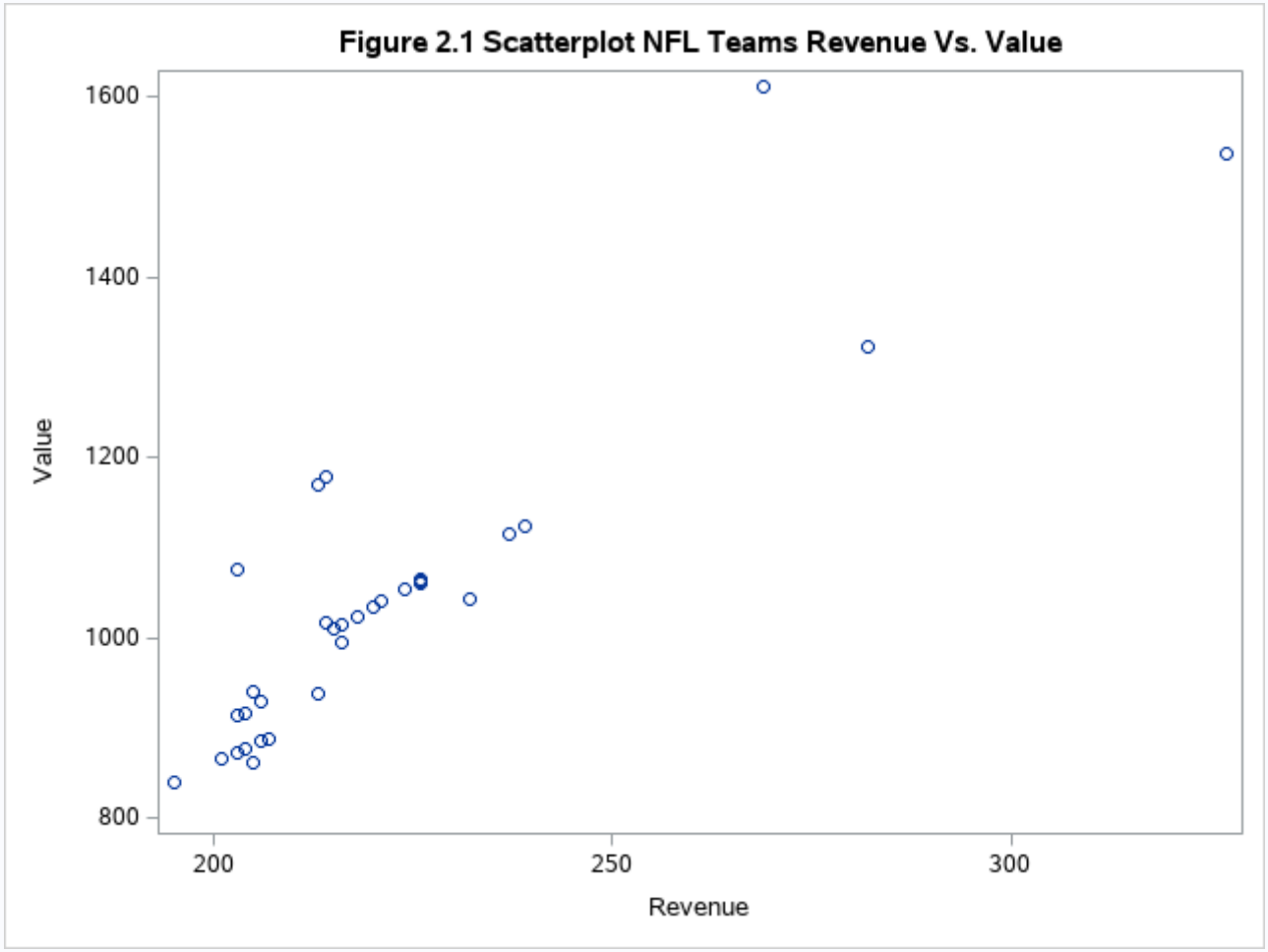


Figure 2.2 Determining the regression equation to predict Team Value based on Revenue

The REG Procedure
Model: MODEL1
Dependent Variable: Value Value

Number of Observations Read	32
Number of Observations Used	32

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F

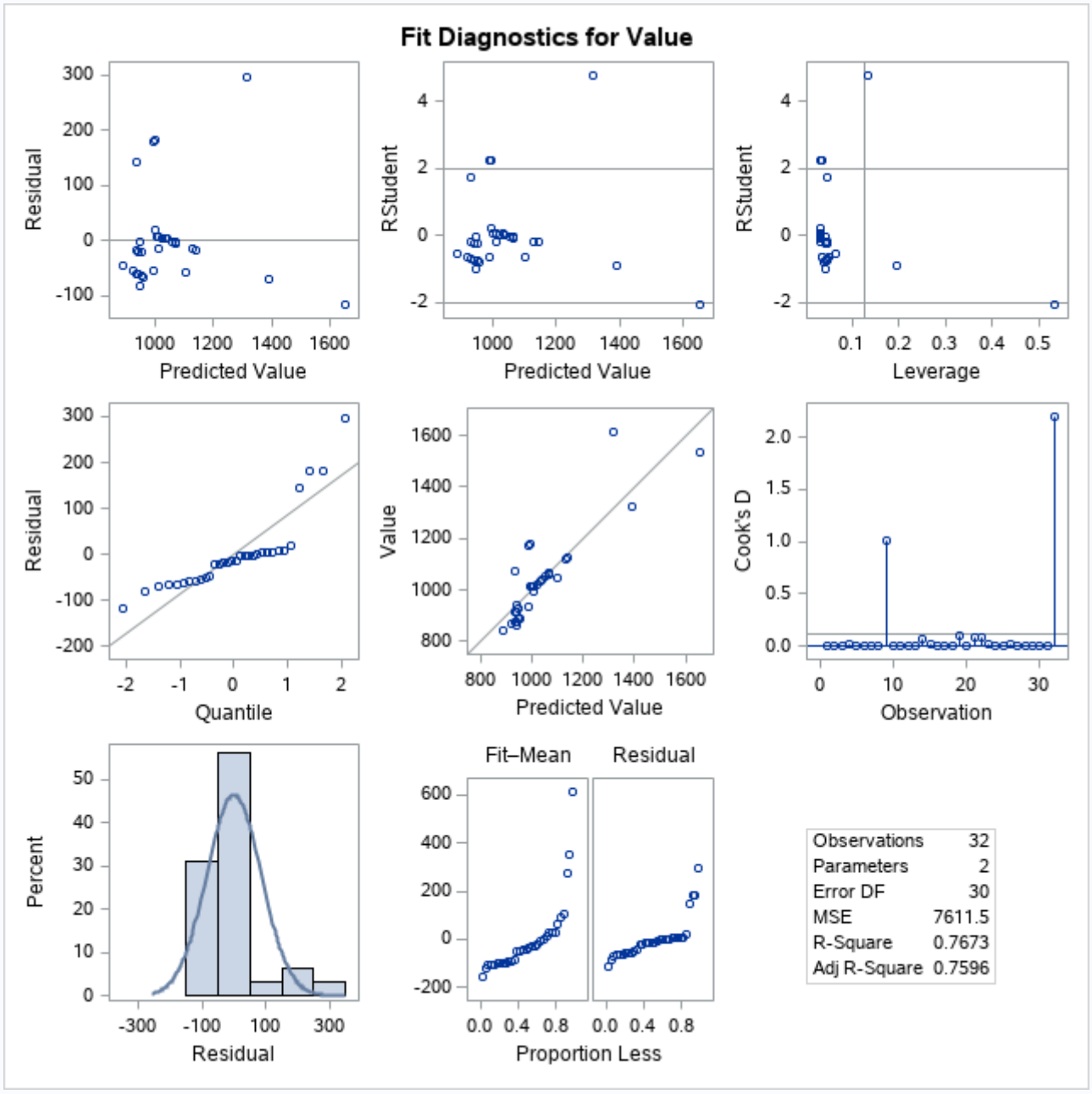
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	753008	753008	98.93	<.0001
Error	30	228346	7611.53579		
Corrected Total	31	981354			

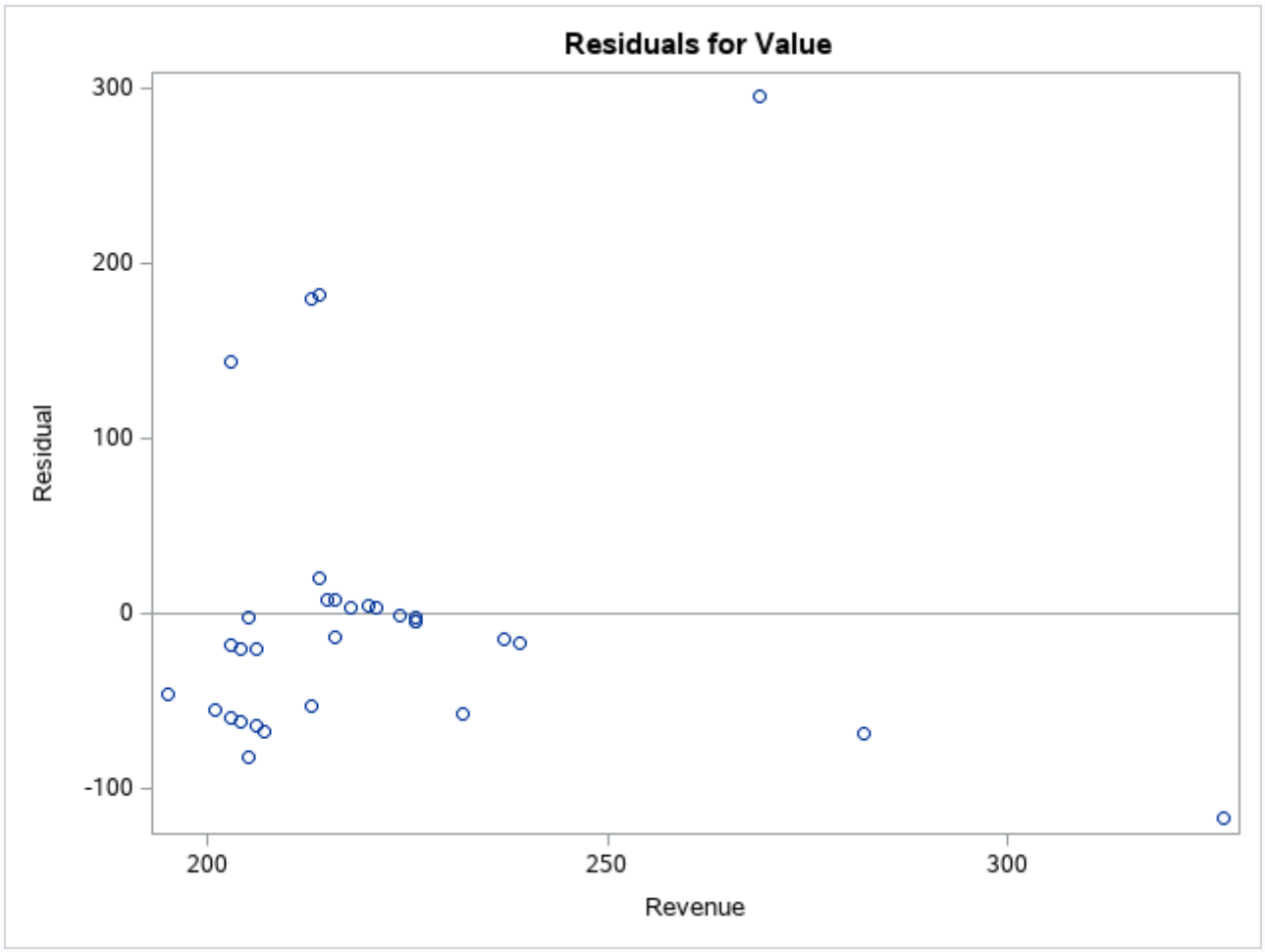
Root MSE	87.24412	R-Square	0.7673
Dependent Mean	1040.00000	Adj R-Sq	0.7596
Coeff Var	8.38886		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	-252.07830	130.81712	-1.93	0.0635
Revenue	Revenue	1	5.83167	0.58631	9.95	<.0001

Figure 2.2 Determining the regression equation to predict Team Value based on Revenue

The REG Procedure
Model: MODEL1
Dependent Variable: Value Value


Fit Diagnostics for Value
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
Value
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 32
Parameters 2
Error DF 30
MSE 7611.5
R-Square 0.7673
Adj R-Square 0.7596


Residuals for Value
Residual
300
200
100
0
-100
200
250
300
Revenue

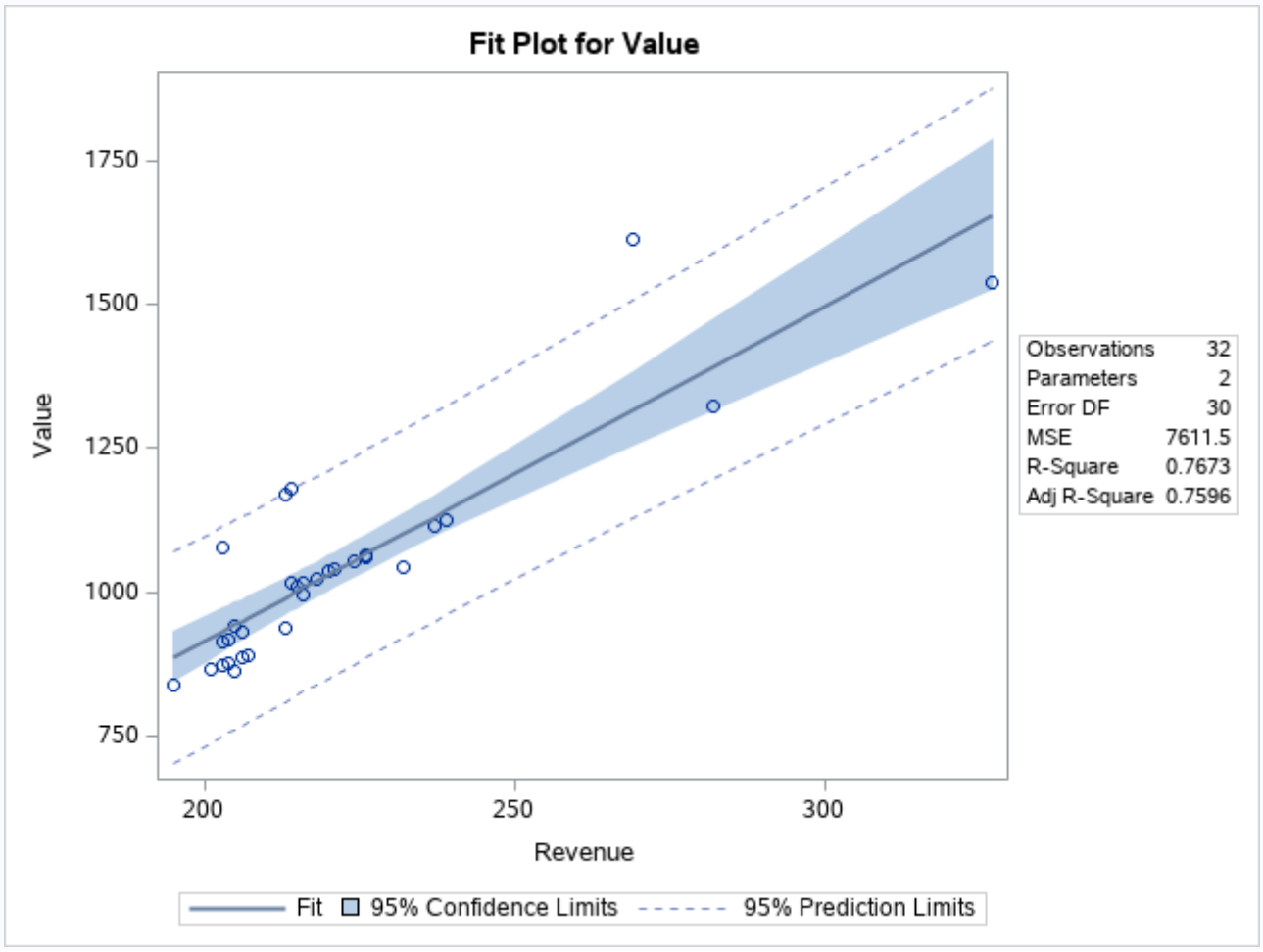

Fit Plot for Value
Value
1750
1500
1250
1000
750
200
250
300
Revenue
Observations 32
Parameters 2
Error DF 30
MSE 7611.5
R-Square 0.7673
Adj R-Square 0.7596
Fit
95% Confidence Limits
95% Prediction Limits

Figure 2.3: Using Studentized Residual Analysis to identify outliers/influential values

The REG Procedure
Model: MODEL1
Dependent Variable: Value Value

Number of Observations Read	32
Number of Observations Used	32

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	753008	753008	98.93	<.0001
Error	30	228346	7611.53579		
Corrected Total	31	981354			

Root MSE	87.24412	R-Square	0.7673
Dependent Mean	1040.00000	Adj R-Sq	0.7596
Coeff Var	8.38886		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	Intercept	1	-252.07830	130.81712	-1.93	0.0635
Revenue	Revenue	1	5.83167	0.58631	9.95	<.0001

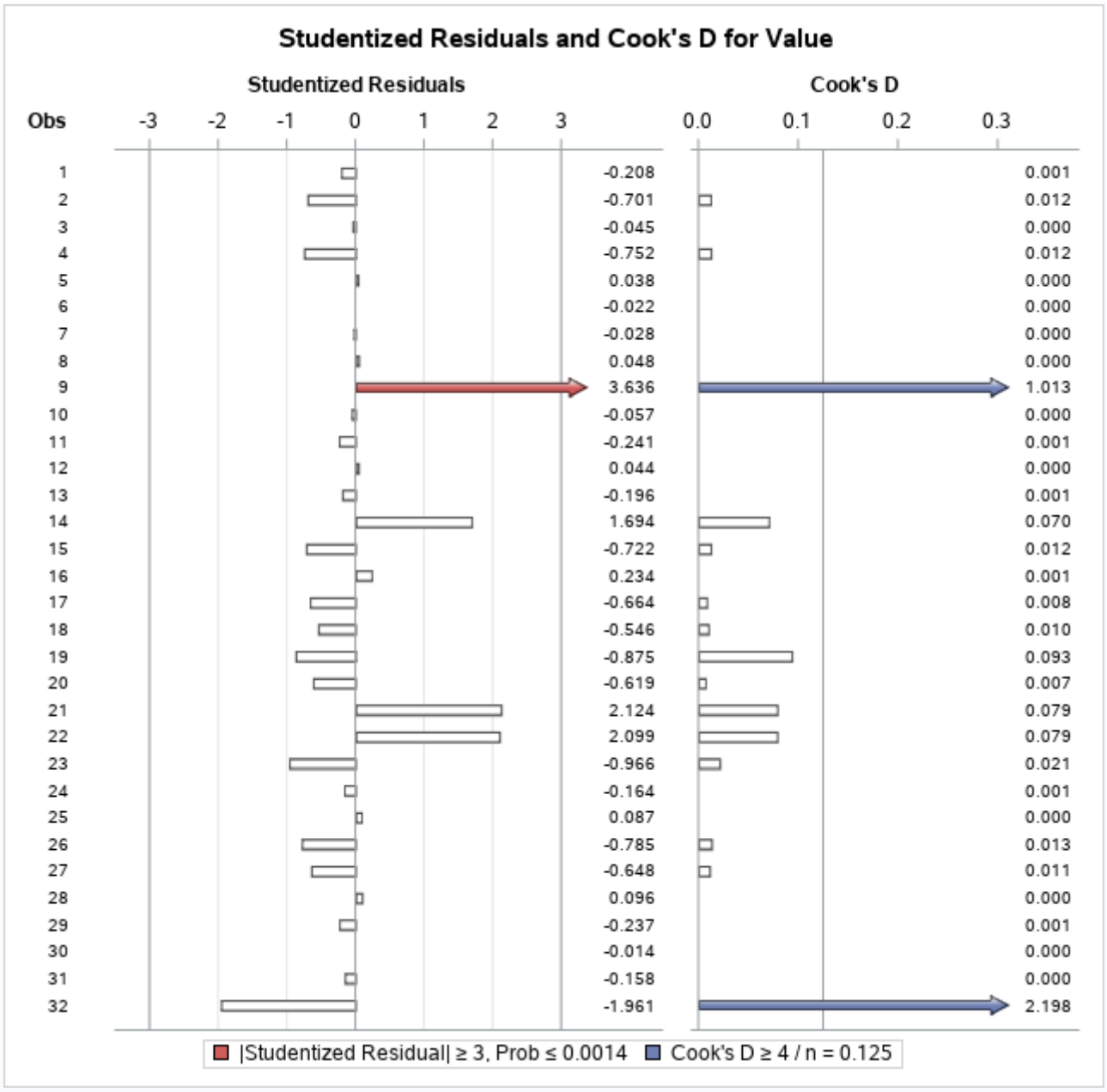
Figure 2.3: Using Studentized Residual Analysis to identify outliers/influential values

The REG Procedure
Model: MODEL1
Dependent Variable: Value Value

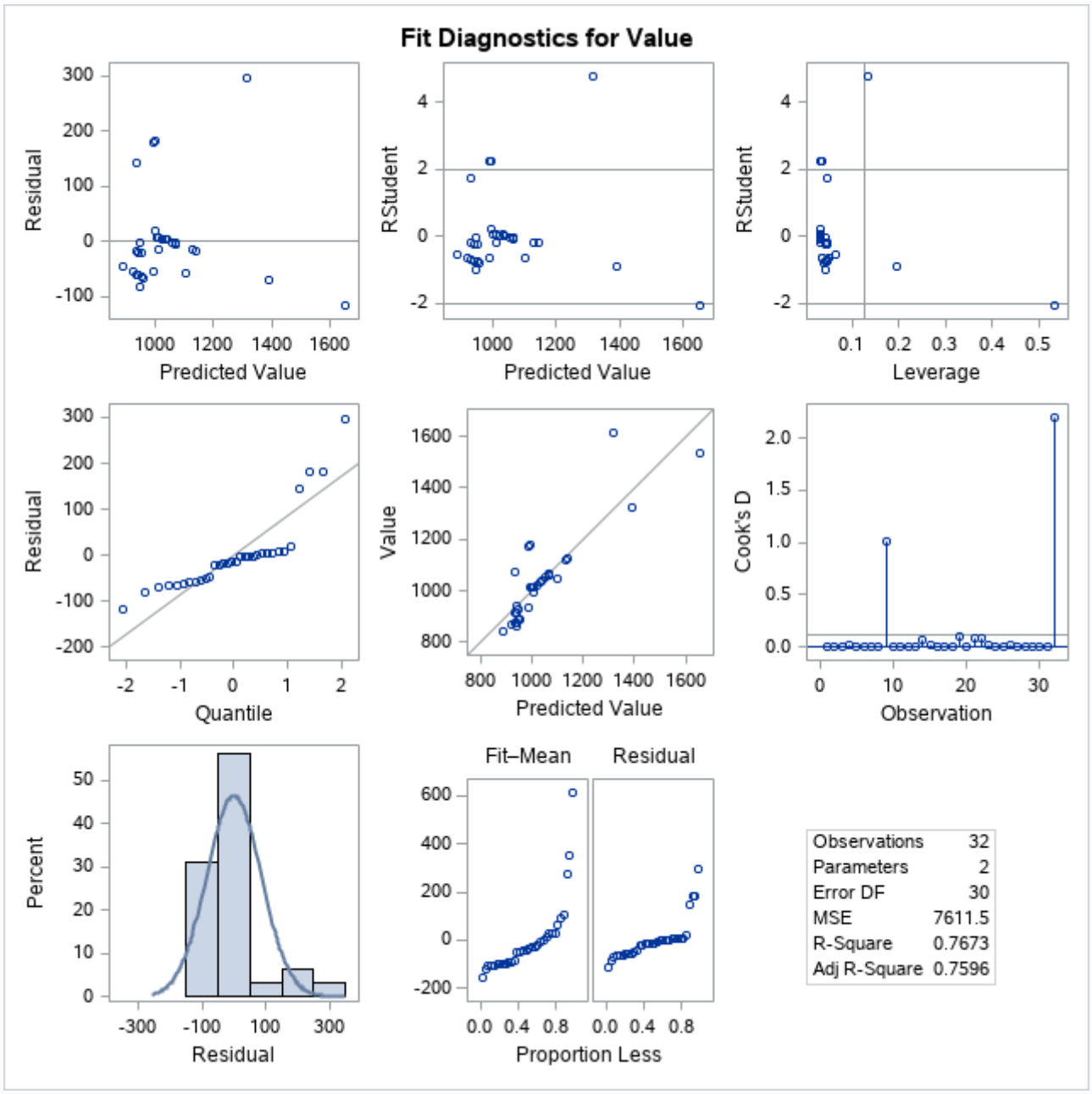
Output Statistics

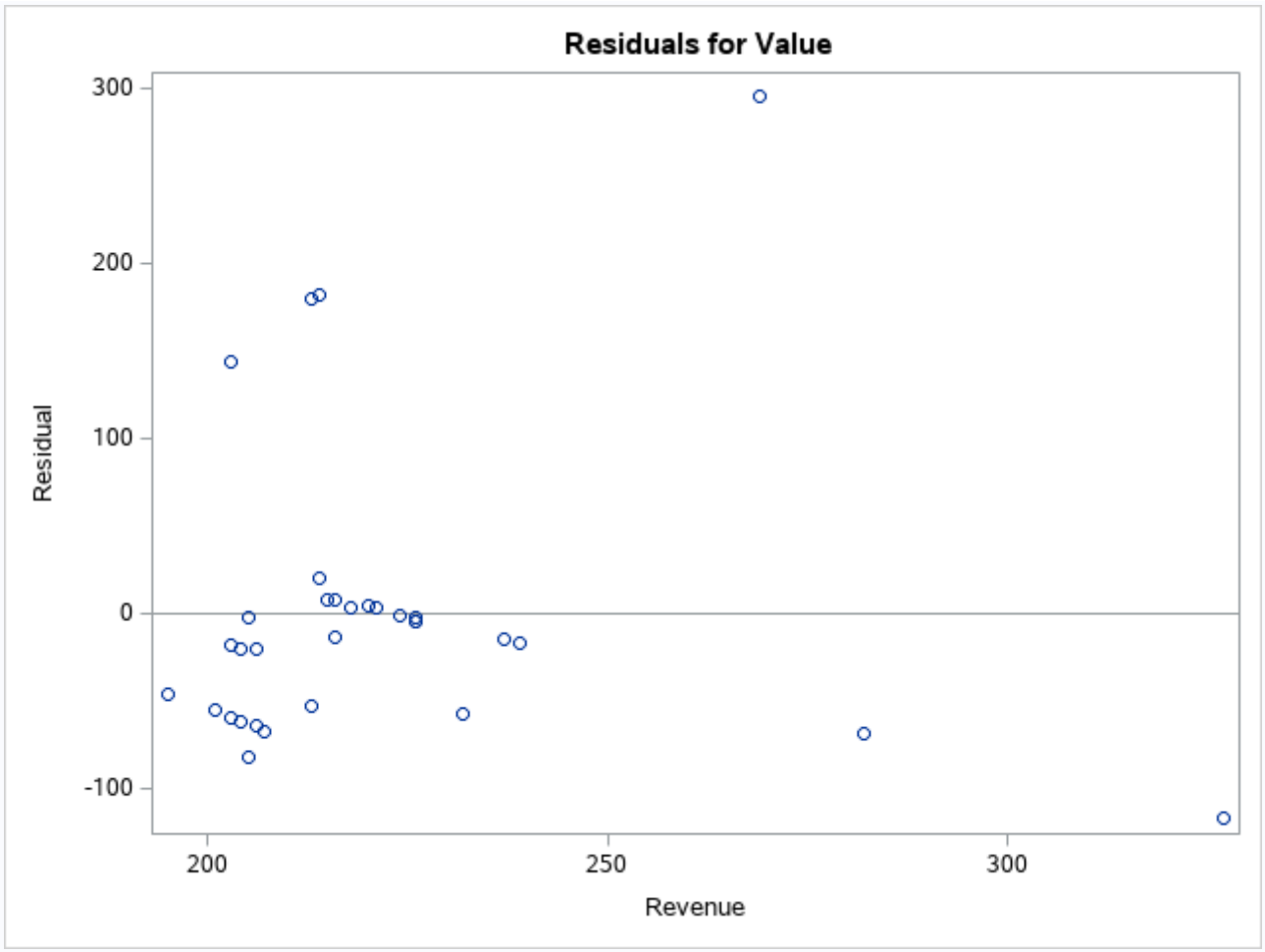
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
1	914	931.7497	18.8762	-17.7497	85.178	-0.208	0.001
2	872	931.7497	18.8762	-59.7497	85.178	-0.701	0.012
3	1062	1066	15.6406	-3.8780	85.831	-0.045	0.000
4	885	949.2447	17.9197	-64.2447	85.384	-0.752	0.012
5	1040	1037	15.4263	3.2803	85.869	0.038	0.000
6	1064	1066	15.6406	-1.8780	85.831	-0.022	0.000
7	941	943.4130	18.2253	-2.4130	85.319	-0.028	0.000
8	1035	1031	15.4499	4.1120	85.865	0.048	0.000
9	1612	1317	31.8030	295.3604	81.241	3.636	1.013
10	1061	1066	15.6406	-4.8780	85.831	-0.057	0.000
11	917	937.5814	18.5443	-20.5814	85.250	-0.241	0.001
12	1023	1019	15.5635	3.7753	85.845	0.044	0.000
13	1125	1142	18.5037	-16.6897	85.259	-0.196	0.001
14	1076	931.7497	18.8762	144.2503	85.178	1.694	0.070
15	876	937.5814	18.5443	-61.5814	85.250	-0.722	0.012

Output Statistics							
Obs	Dependent Variable	Predicted Value	Std Error Mean Predict	Residual	Std Error Residual	Student Residual	Cook's D
16	1016	995.8980	16.0475	20.1020	85.756	0.234	0.001
17	1044	1101	16.5925	-56.8680	85.652	-0.664	0.008
18	839	885.0964	21.9182	-46.0964	84.446	-0.546	0.010
19	1324	1392	38.6460	-68.4513	78.218	-0.875	0.093
20	937	990.0664	16.2192	-53.0664	85.723	-0.619	0.007
21	1178	995.8980	16.0475	182.1020	85.756	2.124	0.079
22	1170	990.0664	16.2192	179.9336	85.723	2.099	0.079
23	861	943.4130	18.2253	-82.4130	85.319	-0.966	0.021
24	1116	1130	17.8825	-14.0263	85.392	-0.164	0.001
25	1015	1008	15.7638	7.4386	85.808	0.087	0.000
26	888	955.0764	17.6284	-67.0764	85.445	-0.785	0.013
27	865	920.0864	19.5757	-55.0864	85.020	-0.648	0.011
28	1010	1002	15.8954	8.2703	85.784	0.096	0.000
29	929	949.2447	17.9197	-20.2447	85.384	-0.237	0.001
30	1053	1054	15.4888	-1.2147	85.858	-0.014	0.000
31	994	1008	15.7638	-13.5614	85.808	-0.158	0.000
32	1538	1655	63.7141	-116.8762	59.599	-1.961	2.198



Sum of Residuals	0
Sum of Squared Residuals	228346
Predicted Residual SS (PRESS)	318993


Fit Diagnostics for Value
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
Value
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 32
Parameters 2
Error DF 30
MSE 7611.5
R-Square 0.7673
Adj R-Square 0.7596


Residuals for Value
Residual
300
200
100
0
-100
200
250
300
Revenue

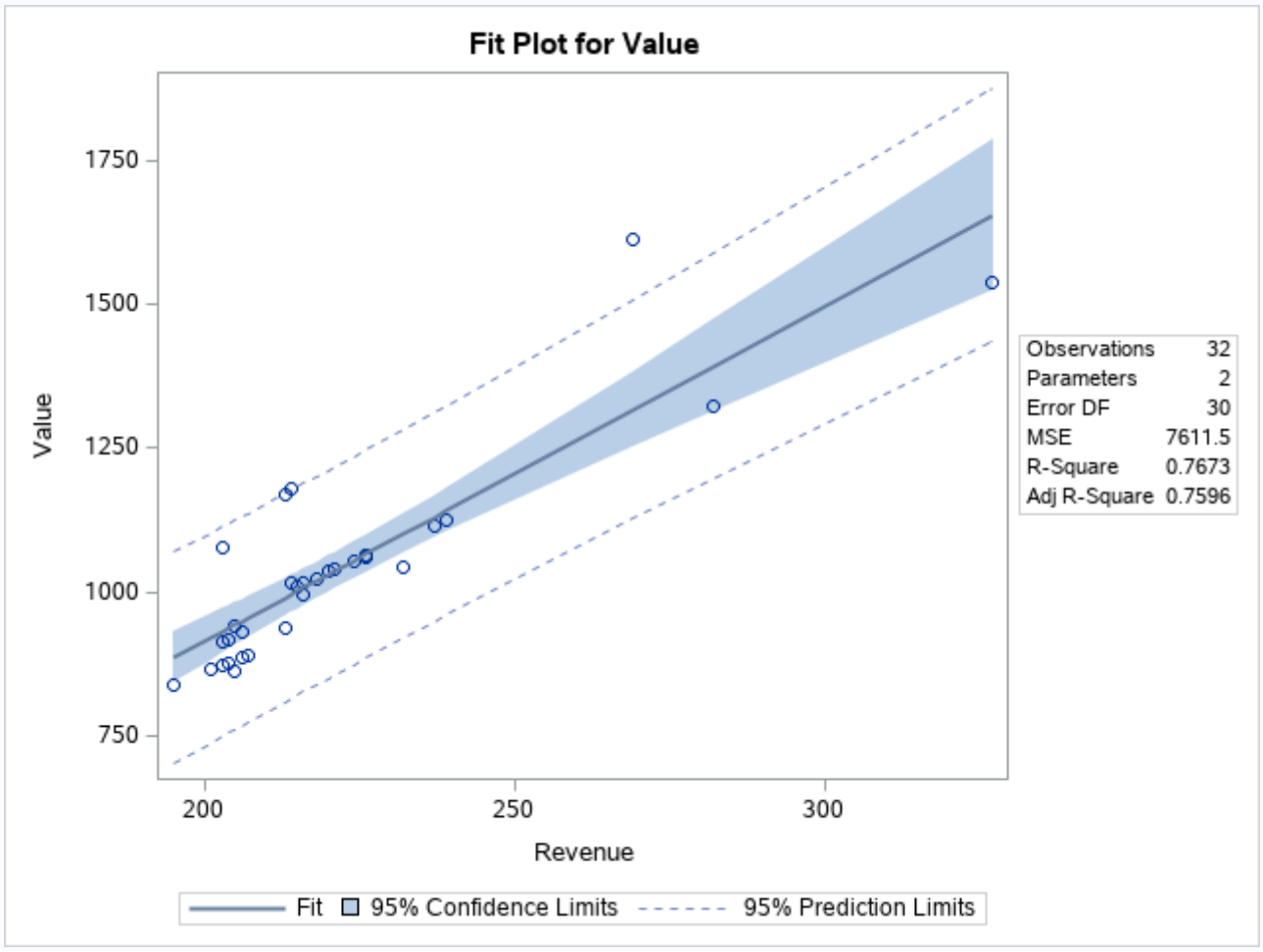

Fit Plot for Value
Value
1750
1500
1250
1000
750
200
250
300
Revenue
Observations 32
Parameters 2
Error DF 30
MSE 7611.5
R-Square 0.7673
Adj R-Square 0.7596
Fit
95% Confidence Limits
95% Prediction Limits

Figure 2.3: Using Studentized Residual Analysis to identify outliers/influential values

Obs	Team	Revenue	Value	studresids	cook
1	Washington Redskins	327	1538	-1.96104	2.19753
2	Oakland Raiders	205	861	-0.96594	0.02129
3	New England Patriots	282	1324	-0.87514	0.09348
4	San Diego Chargers	207	888	-0.78503	0.01312
5	Buffalo Bills	206	885	-0.75242	0.01247
6	Jacksonville Jaguars	204	876	-0.72236	0.01235
7	Atlanta Falcons	203	872	-0.70147	0.01208
8	Miami Dolphins	232	1044	-0.66394	0.00827
9	San Francisco 49ers	201	865	-0.64793	0.01113
10	New Orleans Saints	213	937	-0.61904	0.00686
11	Minnesota Vikings	195	839	-0.54587	0.01004
12	Detroit Lions	204	917	-0.24142	0.00138
13	St Louis Rams	206	929	-0.23710	0.00124
14	Arizona Cardinals	203	914	-0.20838	0.00107
15	Houston Texans	239	1125	-0.19575	0.00090
16	Philadelphia Eagles	237	1116	-0.16426	0.00059
17	Tennessee Titans	216	994	-0.15804	0.00042
18	Denver Broncos	226	1061	-0.05683	0.00005
19	Baltimore Ravens	226	1062	-0.04518	0.00003
20	Cincinnati Bengals	205	941	-0.02828	0.00002
21	Chicago Bears	226	1064	-0.02188	0.00001
22	Tampa Bay Buccaneers	224	1053	-0.01415	0.00000
23	Carolina Panthers	221	1040	0.03820	0.00002
24	Green Bay Packers	218	1023	0.04398	0.00003
25	Cleveland Browns	220	1035	0.04789	0.00004
26	Pittsburgh Steelers	216	1015	0.08669	0.00013
27	Seattle Seahawks	215	1010	0.09641	0.00016
28	Kansas City Chiefs	214	1016	0.23441	0.00096
29	Indianapolis Colts	203	1076	1.69352	0.07043
30	New York Jets	213	1170	2.09901	0.07886
31	New York Giants	214	1178	2.12350	0.07895
32	Dallas Cowboys	269	1612	3.63561	1.01277