Regression Analysis of weight on height for fathers

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_father

Number of Observations Read	149
Number of Observations Used	149

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	22689	22689	54.36	<.0001
Error	147	61360	417.41350		
Corrected Total	148	84049			

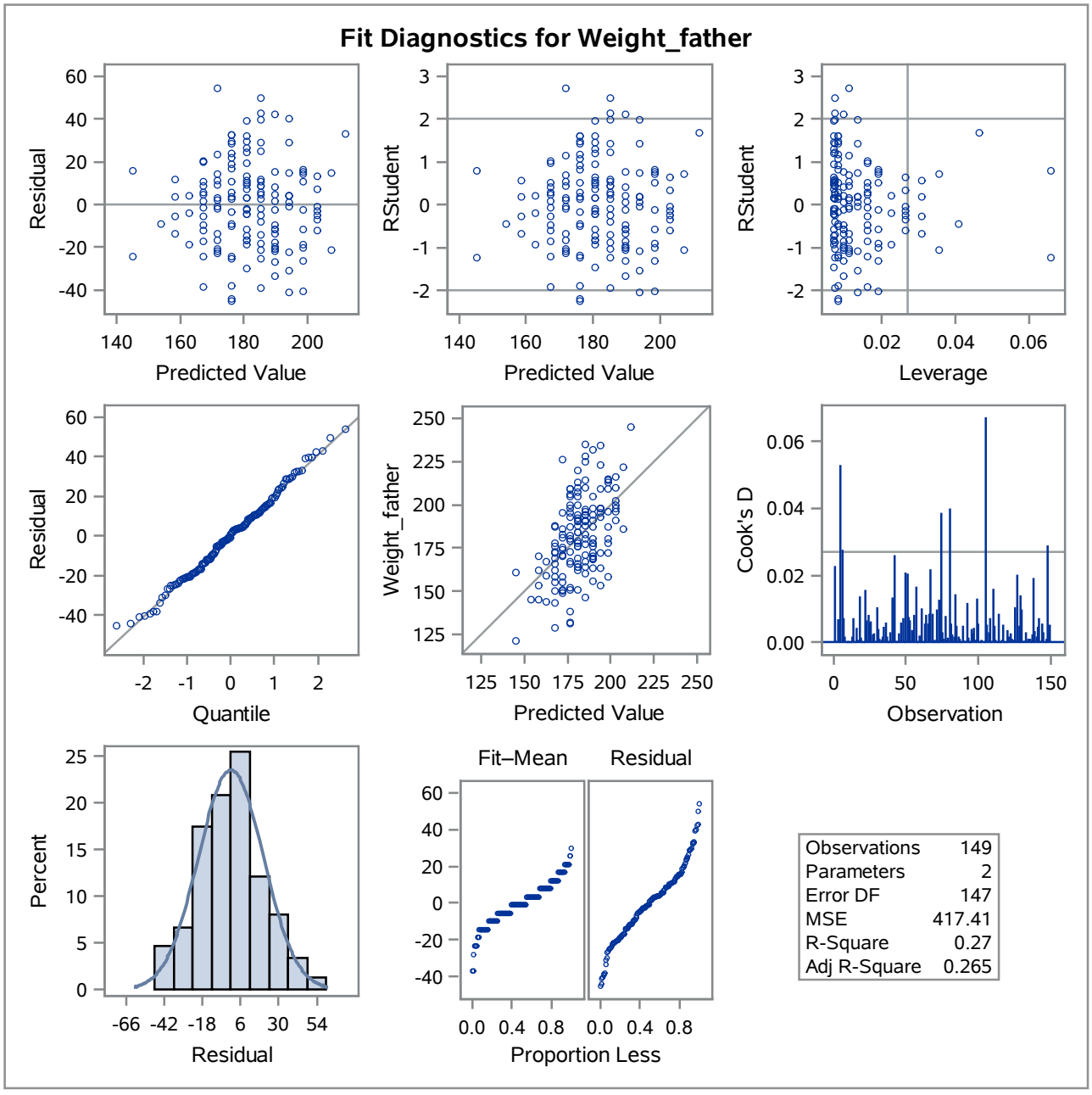
Root MSE	20.43070	**R-Square**	0.2700
Dependent Mean	181.83221	**Adj R-Sq**	0.2650
Coeff Var	11.23602		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate
Intercept	1	-126.04797	41.79320	-3.02	0.0030	0
Height_father	1	4.44603	0.60304	7.37	<.0001	0.51957

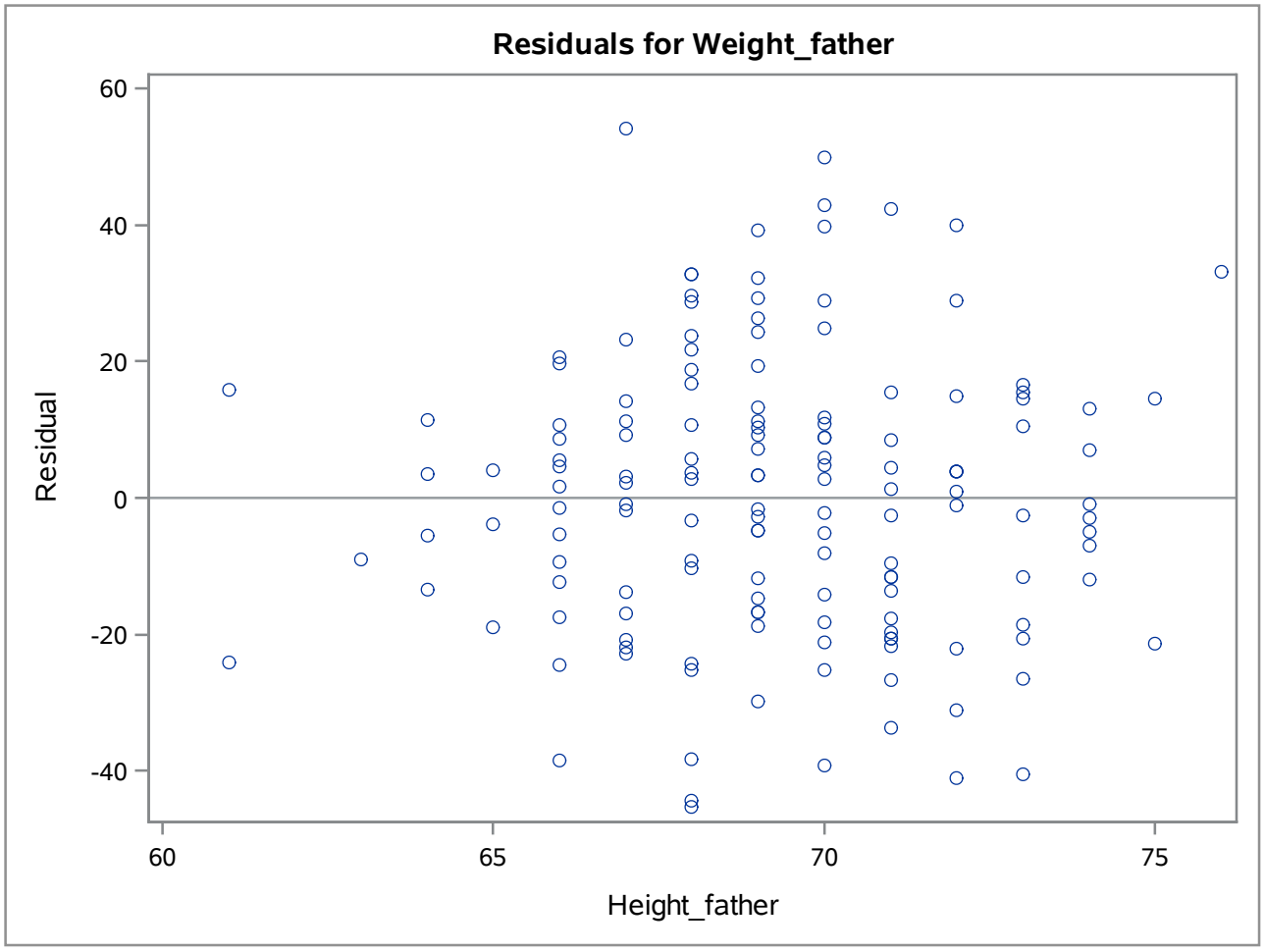
Regression Analysis of weight on height for fathers

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_father



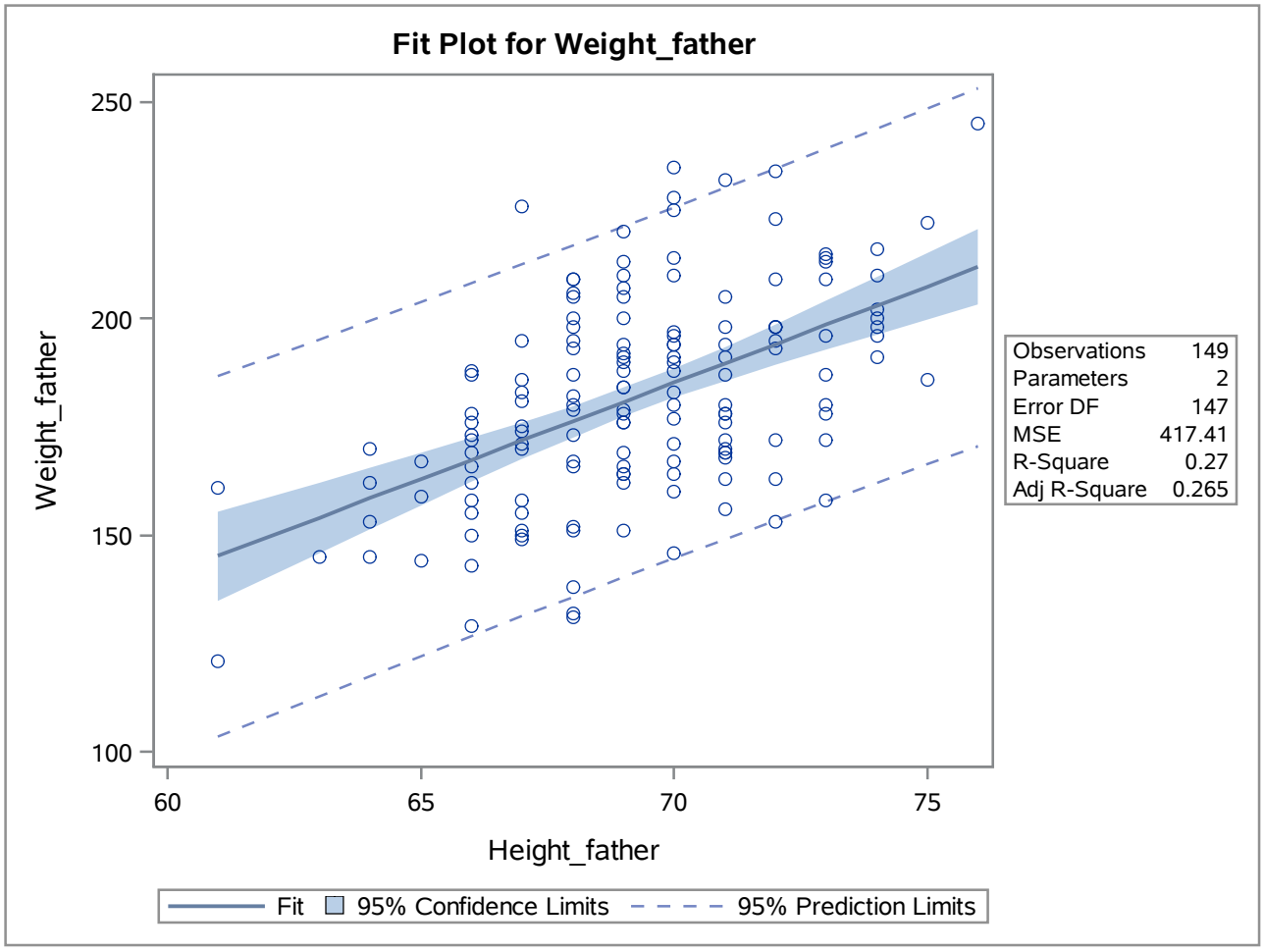
Regression Analysis of weight on height for fathers

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_father



Regression Analysis of weight on height for fathers

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_father



Regression Analysis of weight on height for mother

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_mother

Number of Observations Read	149
Number of Observations Used	149

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	14490	14490	18.72	<.0001
Error	147	113787	774.05789		
Corrected Total	148	128277			

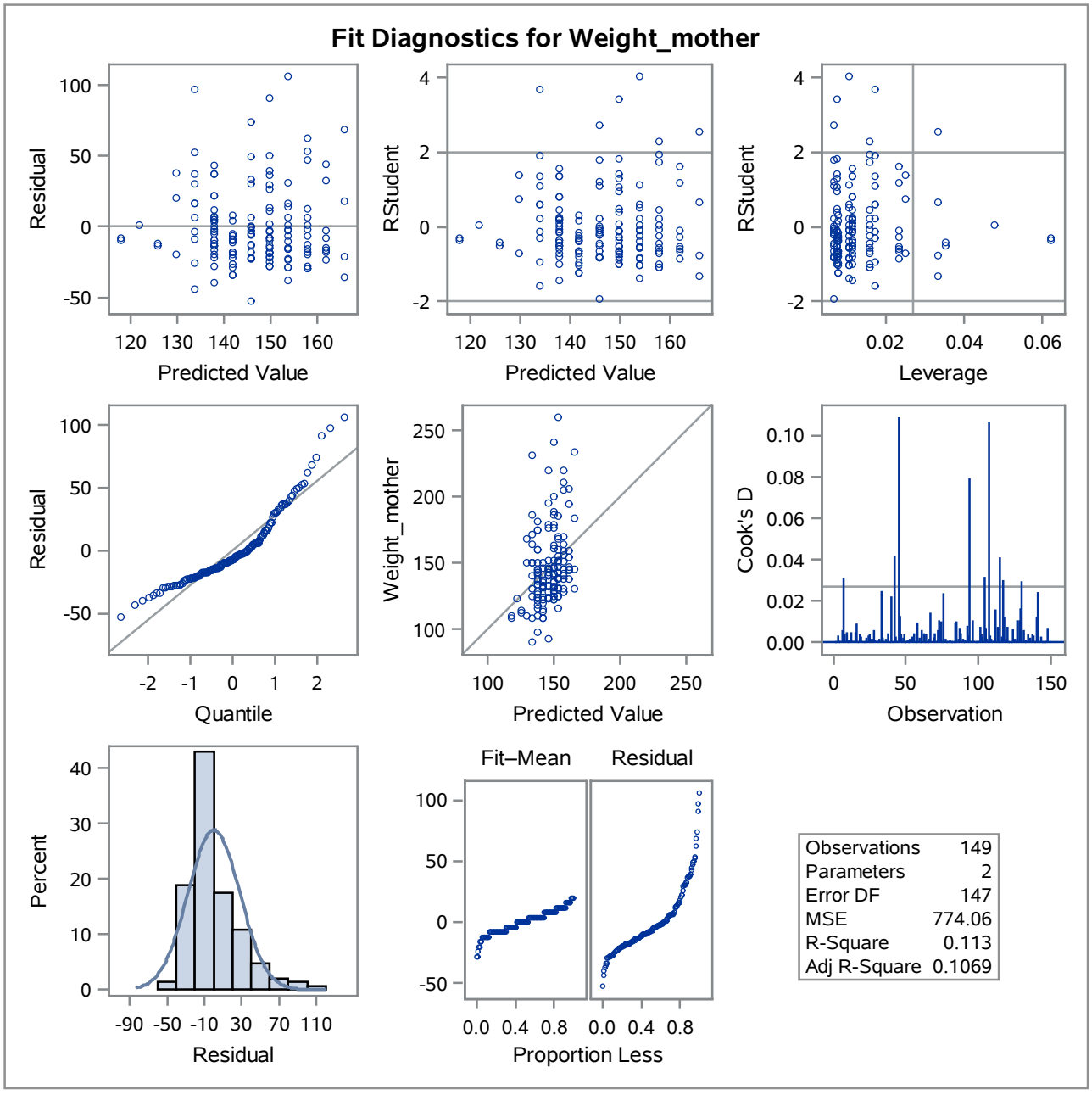
Root MSE	27.82190	R-Square	0.1130
Dependent Mean	146.16779	Adj R-Sq	0.1069
Coeff Var	19.03422		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate
Intercept	1	-109.77869	59.19968	-1.85	0.0657	0
Height_mother	1	3.99330	0.92295	4.33	<.0001	0.33610

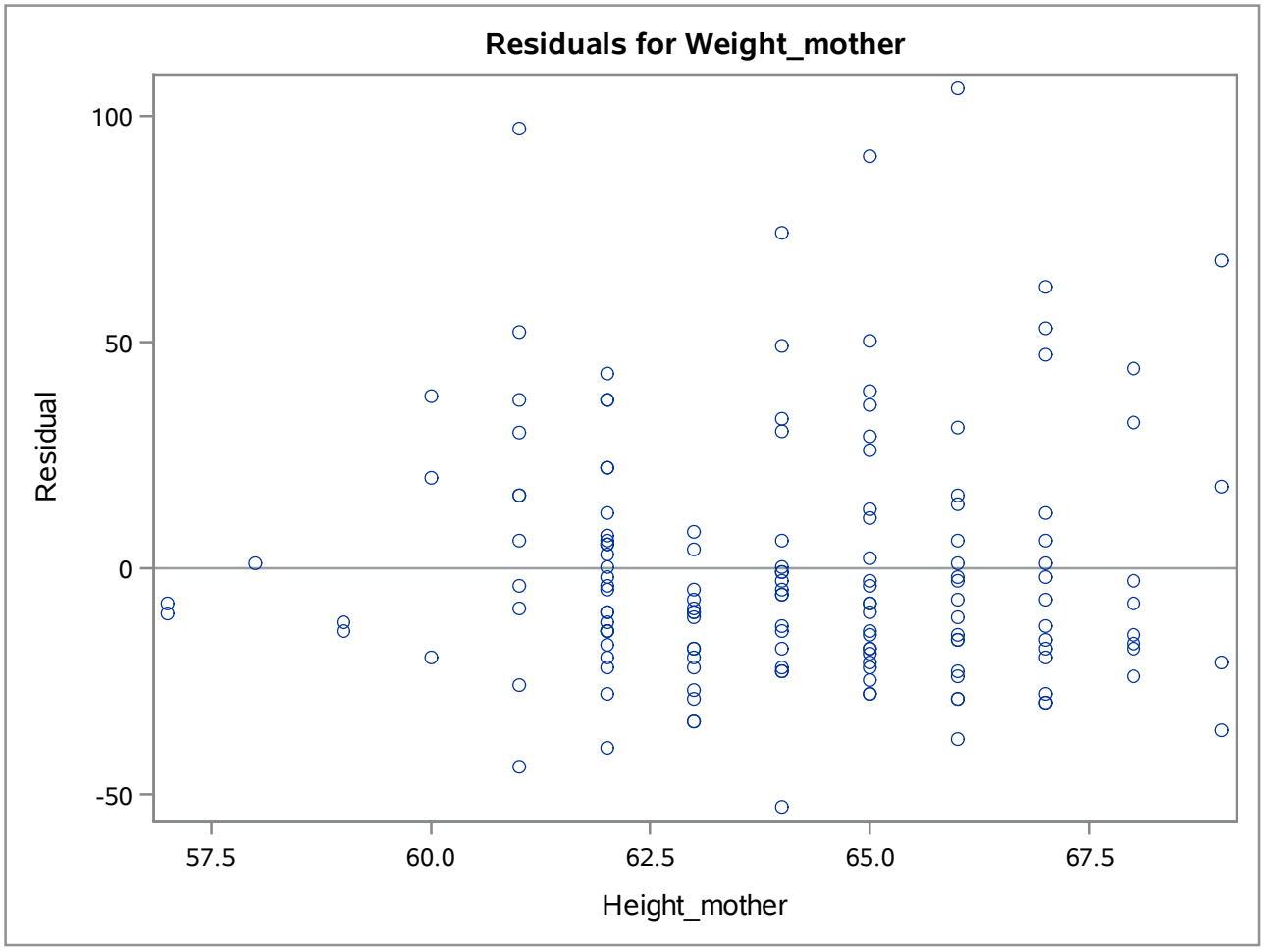
Regression Analysis of weight on height for mother

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_mother



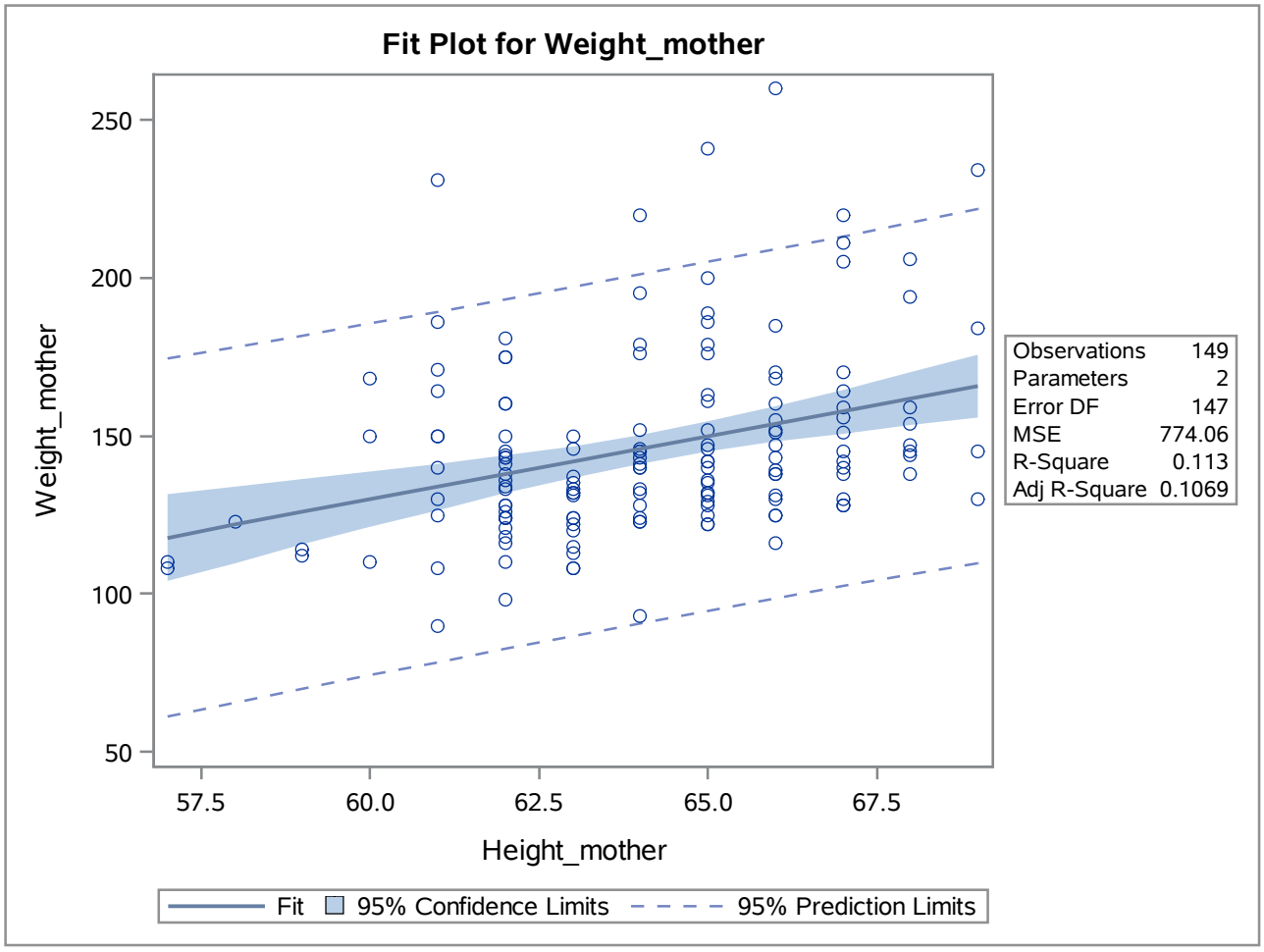
Regression Analysis of weight on height for mother

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_mother



Regression Analysis of weight on height for mother

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_mother



The CORR Procedure

2 Variables:	Weight_father Height_father

Simple Statistics						
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**
Weight_father	150	182.08667	23.95408	27313	121.00000	245.00000
Height_father	150	69.26000	2.77919	10389	61.00000	76.00000

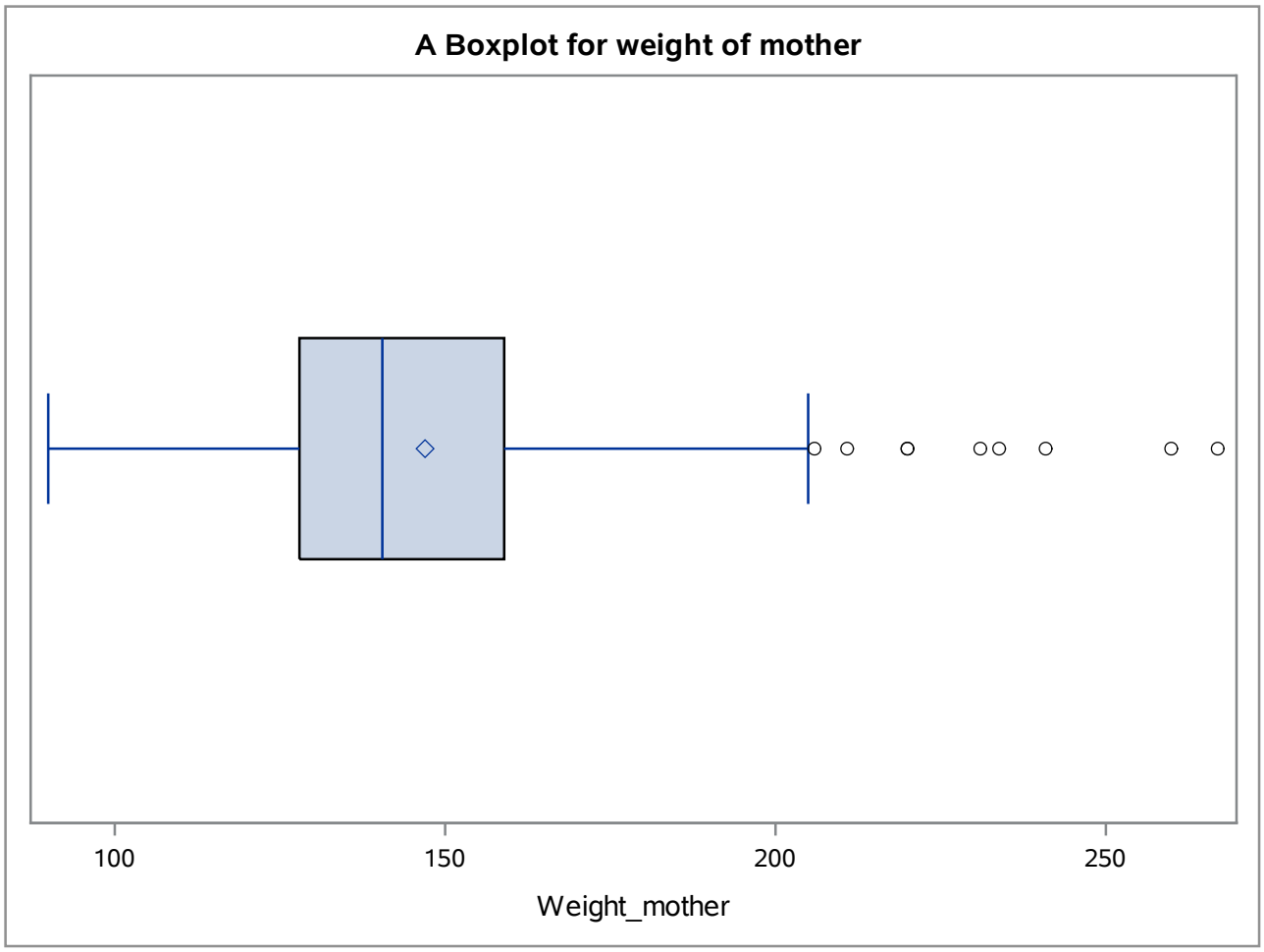
Pearson Correlation Coefficients, N = 150 Prob > |r| under H0: Rho=0		
	Weight_father	**Height_father**
Weight_father	1.00000	0.52116 <.0001
Height_father	0.52116 <.0001	1.00000

The CORR Procedure

2 Variables:	Weight_mother Height_mother

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
Weight_mother	150	146.97333	30.95568	22046	90.00000	267.00000
Height_mother	150	64.09333	2.46954	9614	57.00000	69.00000

Pearson Correlation Coefficients, N = 150 Prob > |r| under H0: Rho=0		
	Weight_mother	Height_mother
Weight_mother	1.00000	0.31758 <.0001
Height_mother	0.31758 <.0001	1.00000


A Boxplot for weight of mother
100
150
200
250
Weight_mother

Runs a Regression model for the new dataset with the deleted value

The REG Procedure
Model: MODEL1
Dependent Variable: Weight_mother

Number of Observations Read	149
Number of Observations Used	149

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	14490	14490	18.72	<.0001
Error	147	113787	774.05789		
Corrected Total	148	128277			

Root MSE	27.82190	R-Square	0.1130
Dependent Mean	146.16779	Adj R-Sq	0.1069
Coeff Var	19.03422		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Standardized Estimate
Intercept	1	-109.77869	59.19968	-1.85	0.0657	0
Height_mother	1	3.99330	0.92295	4.33	<.0001	0.33610