

## Forward Model Selection for Mzda - SL 0.01

### The GLMSELECT Procedure

<b>Data Set</b>	SAD.CV4_3
<b>Dependent Variable</b>	mzda
<b>Selection Method</b>	Forward
<b>Select Criterion</b>	Significance Level
<b>Stop Criterion</b>	Significance Level
<b>Entry Significance Level (SLE)</b>	0.01
<b>Effect Hierarchy Enforced</b>	None

<b>Number of Observations Read</b>	300
<b>Number of Observations Used</b>	300

Dimensions	
<b>Number of Effects</b>	9
<b>Number of Parameters</b>	9

## Forward Model Selection for Mzda - SL 0.01

### The GLMSELECT Procedure Forward Selection: Step 0

**Effect Entered: Intercept**

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	0	0	.	.	.
<b>Error</b>	299	34560	115.58513		
<b>Corrected Total</b>	299	34560			

<b>Root MSE</b>	10.75105
<b>Dependent Mean</b>	104.58253
<b>R-Square</b>	0.0000
<b>Adj R-Sq</b>	0.0000
<b>AIC</b>	1728.00052
<b>AICC</b>	1728.04092
<b>SBC</b>	1429.70430

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
<b>Intercept</b>	1	104.582533	0.620712	168.49	<.0001

## Forward Model Selection for Mzda - SL 0.01

### The GLMSELECT Procedure Forward Selection: Step 1

**Effect Entered: vzdelani**

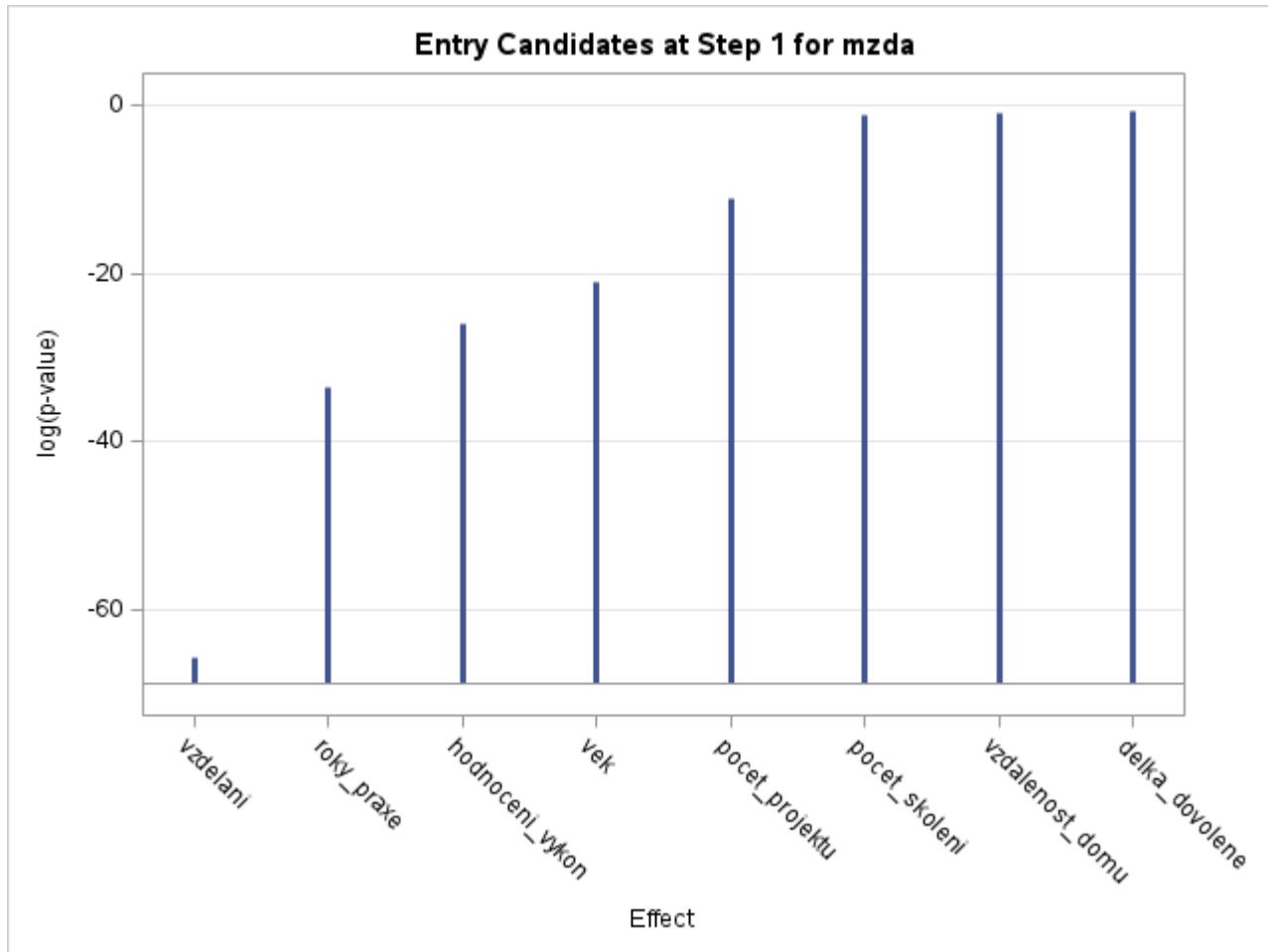
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	1	11915	11915	156.79	<.0001
<b>Error</b>	298	22645	75.99103		

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Corrected Total	299	34560			

Root MSE	8.71728
Dependent Mean	104.58253
R-Square	0.3448
Adj R-Sq	0.3426
AIC	1603.17790
AICC	1603.25898
SBC	1308.58546

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
Intercept	1	63.579247	3.313061	19.19	<.0001
vzdelani	1	2.519094	0.201180	12.52	<.0001

Entry Candidates				
Rank	Effect	Log pValue	Pr > F	
1	vzdelani	-65.5375	<.0001	
2	roky_praxe	-33.6283	<.0001	
3	hodnoceni_vykon	-26.0780	<.0001	
4	vek	-21.0835	<.0001	
5	pocet_projektu	-11.1885	<.0001	
6	pocet_skoleni	-1.2215	0.2948	
7	vzdalenost_domu	-1.0334	0.3558	
8	delka_dovolene	-0.7726	0.4618	



### Forward Model Selection for Mzda - SL 0.01

The GLMSELECT Procedure  
Forward Selection: Step 2

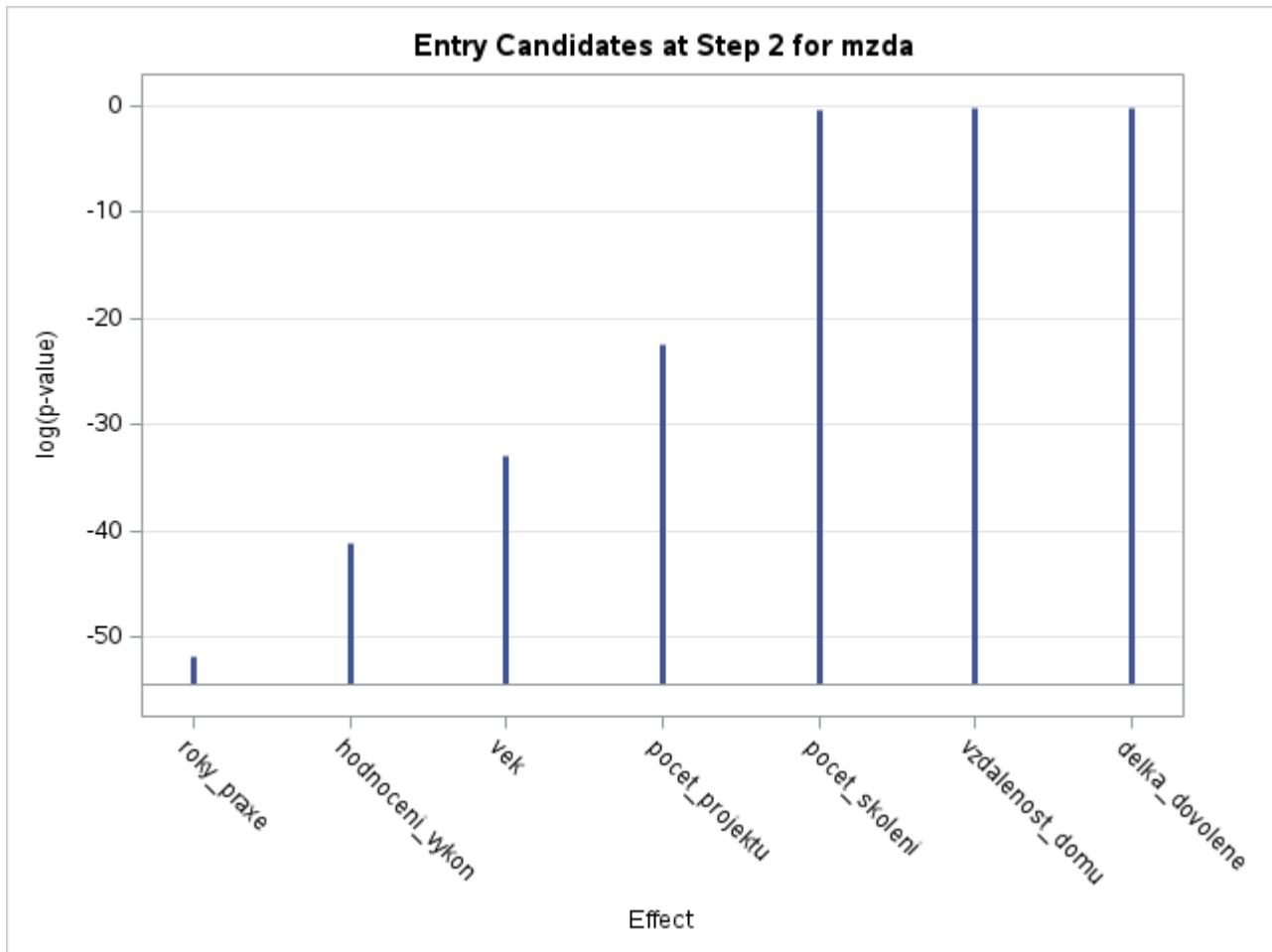
Effect Entered: roky\_praxe

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	18326	9163.06458	167.64	<.0001
Error	297	16234	54.65934		
Corrected Total	299	34560			

Root MSE	7.39320
Dependent Mean	104.58253
R-Square	0.5303
Adj R-Sq	0.5271
AIC	1505.32093
AICC	1505.45653
SBC	1214.43228

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
Intercept	1	55.458256	2.908161	19.07	<.0001
roky_praxe	1	0.934350	0.086270	10.83	<.0001
vzdelani	1	2.503303	0.170629	14.67	<.0001

Entry Candidates			
Rank	Effect	Log pValue	Pr > F
1	roky_praxe	-51.8801	<.0001
2	hodnoceni_vykon	-41.1428	<.0001
3	vek	-32.8802	<.0001
4	pocet_projektu	-22.3933	<.0001
5	pocet_skoleni	-0.3923	0.6755
6	vzdalenost_domu	-0.2507	0.7782
7	delka_dovolene	-0.1968	0.8213



### Forward Model Selection for Mzda - SL 0.01

The GLMSELECT Procedure  
Forward Selection: Step 3

Effect Entered: hodnoceni\_vykon

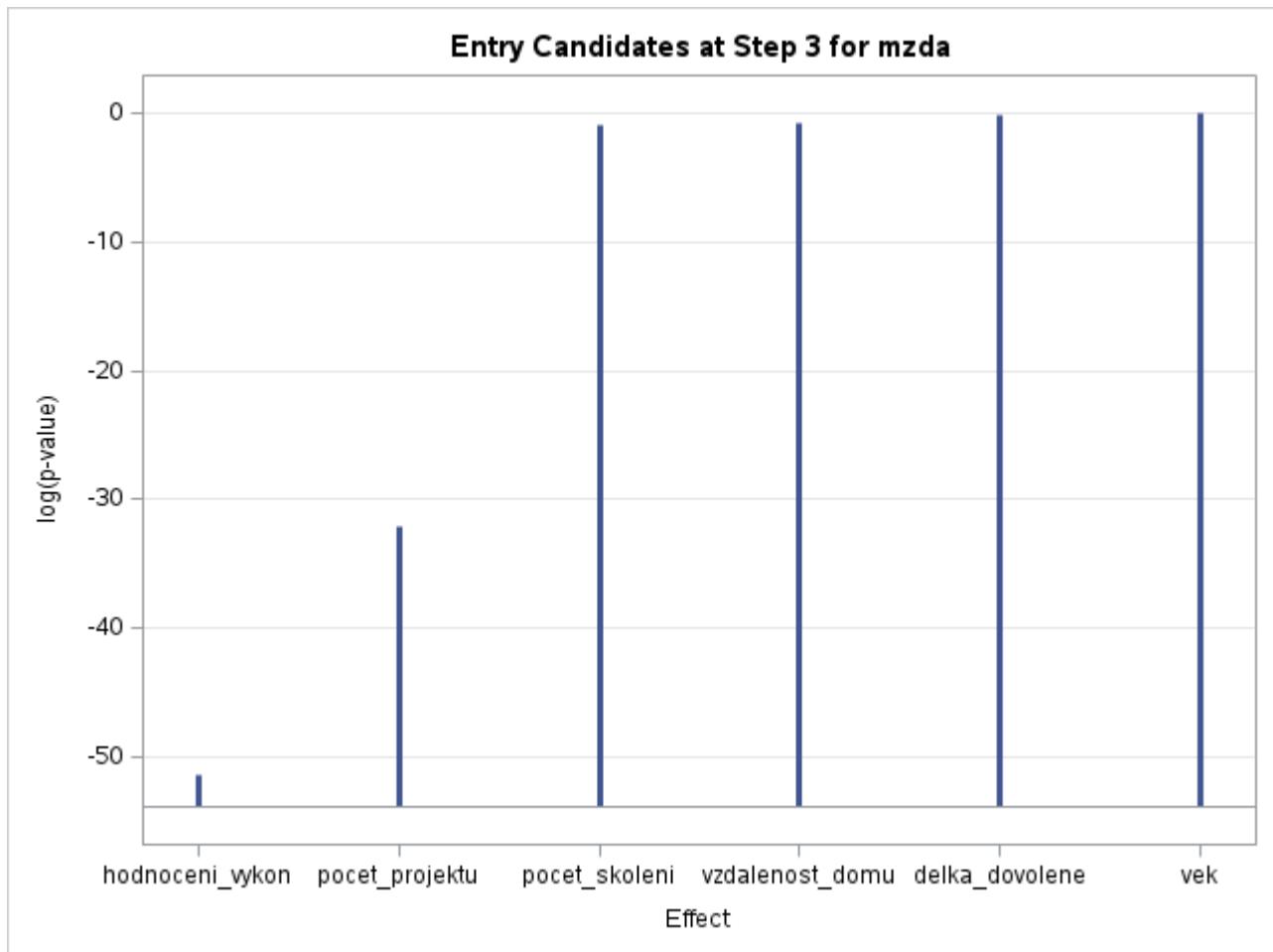
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	22890	7629.97600	193.53	<.0001
Error	296	11670	39.42576		
Corrected Total	299	34560			

Root MSE	6.27899
Dependent Mean	104.58253
R-Square	0.6623
Adj R-Sq	0.6589
AIC	1408.29892

<b>AICC</b>	1408.50301
<b>SBC</b>	1121.11405

<b>Parameter Estimates</b>					
<b>Parameter</b>	<b>DF</b>	<b>Estimate</b>	<b>Standard Error</b>	<b>t Value</b>	<b>Pr &gt;  t </b>
<b>Intercept</b>	1	35.901182	3.066673	11.71	<.0001
<b>roky_praxe</b>	1	0.887849	0.073396	12.10	<.0001
<b>vzdelani</b>	1	2.511723	0.144916	17.33	<.0001
<b>hodnoceni_vykon</b>	1	2.663993	0.247605	10.76	<.0001

<b>Entry Candidates</b>			
<b>Rank</b>	<b>Effect</b>	<b>Log pValue</b>	<b>Pr &gt; F</b>
<b>1</b>	<b>hodnoceni_vykon</b>	-51.2966	<.0001
<b>2</b>	<b>pocet_projektu</b>	-32.0279	<.0001
<b>3</b>	<b>pocet_skoleni</b>	-0.9441	0.3890
<b>4</b>	<b>vzdalenost_domu</b>	-0.7197	0.4869
<b>5</b>	<b>delka_dovolene</b>	-0.0953	0.9091
<b>6</b>	<b>vek</b>	-0.0716	0.9309



### Forward Model Selection for Mzda - SL 0.01

The GLMSELECT Procedure  
Forward Selection: Step 4

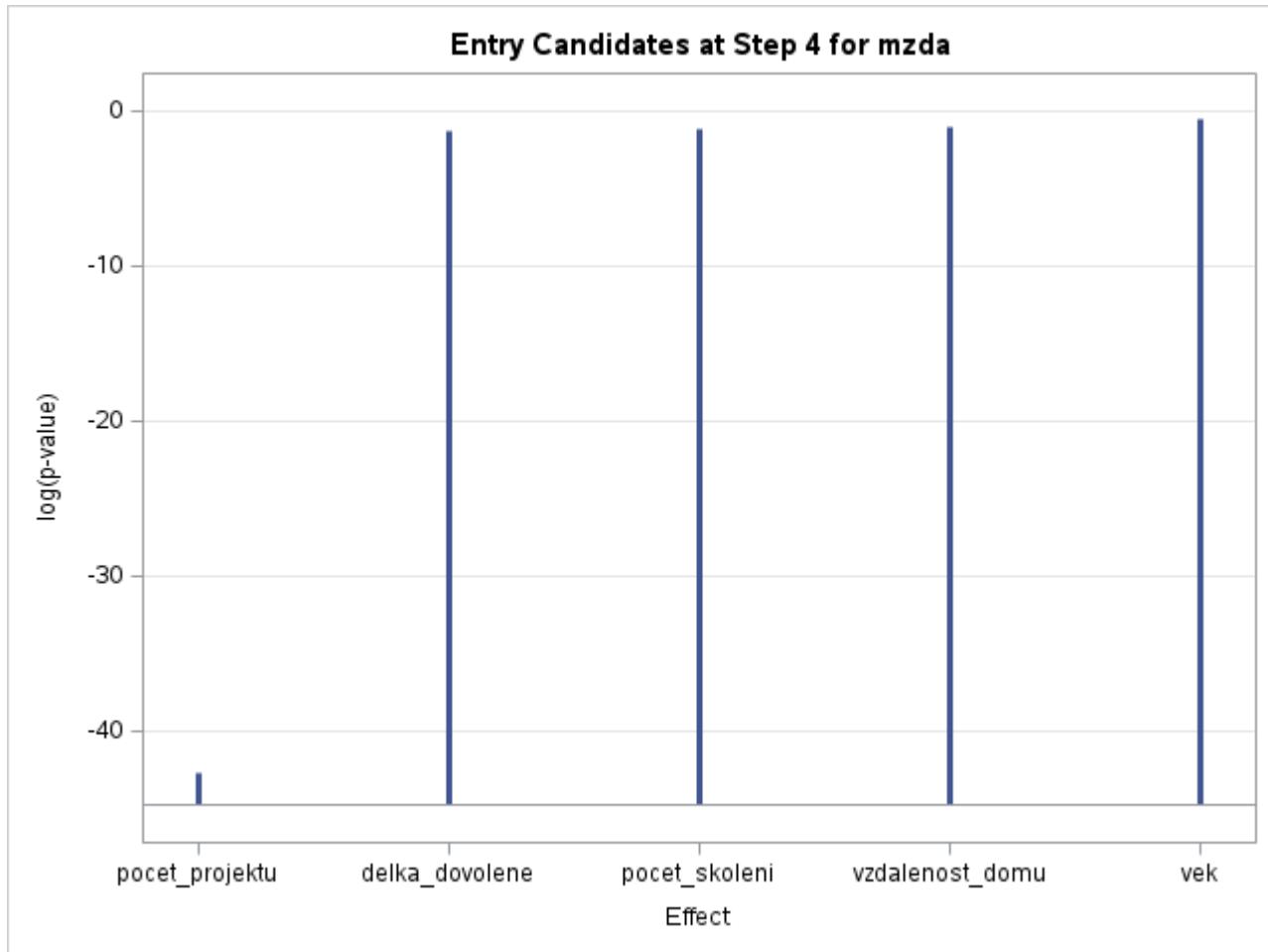
Effect Entered: pocet\_projektu

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	25677	6419.35403	213.19	<.0001
Error	295	8882.53716	30.11030		
Corrected Total	299	34560			

Root MSE	5.48728
Dependent Mean	104.58253
R-Square	0.7430
Adj R-Sq	0.7395
AIC	1328.41801
AICC	1328.70470
SBC	1044.93692

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
Intercept	1	28.251079	2.795457	10.11	<.0001
roky_praxe	1	0.893200	0.064144	13.92	<.0001
vzdelani	1	2.596331	0.126949	20.45	<.0001
pocet_projektu	1	1.323976	0.137604	9.62	<.0001
hodnoceni_vykon	1	2.613922	0.216448	12.08	<.0001

Entry Candidates			
Rank	Effect	Log pValue	Pr > F
1	pocet_projektu	-42.6228	<.0001
2	delka_dovolene	-1.3517	0.2588
3	pocet_skoleni	-1.1265	0.3242
4	vzdalenost_domu	-0.9979	0.3687
5	vek	-0.4848	0.6158



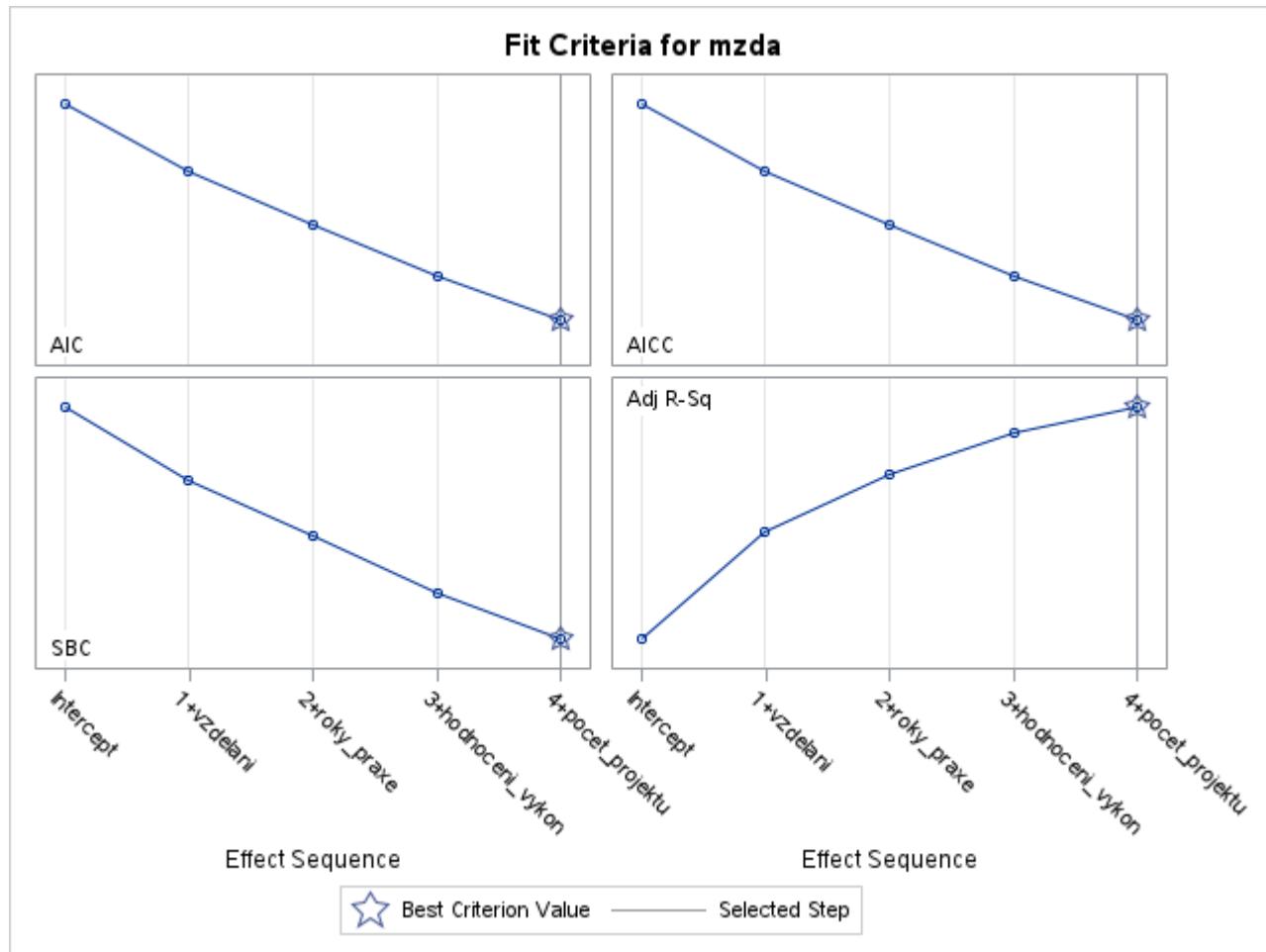
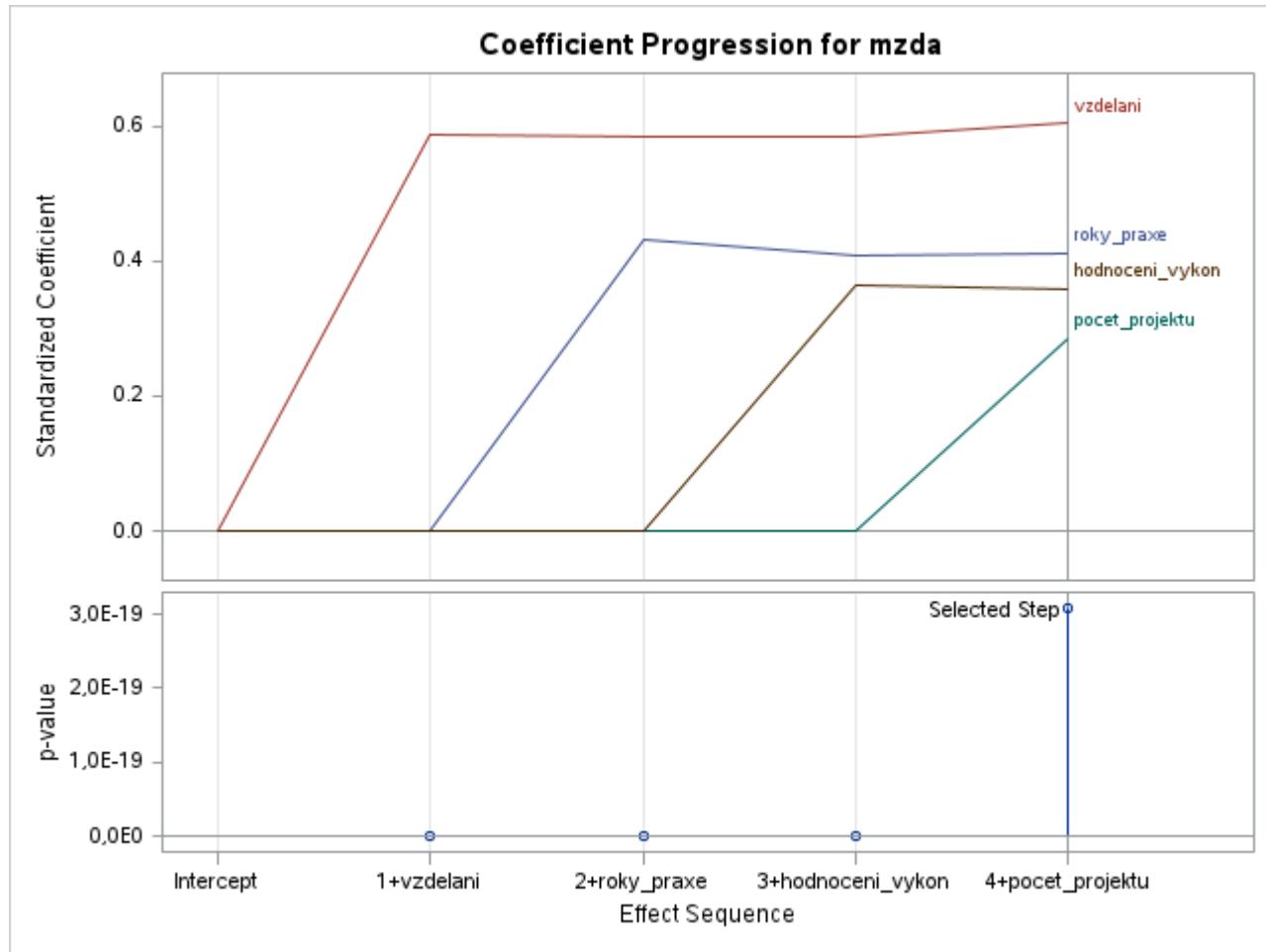
### Forward Model Selection for Mzda - SL 0.01

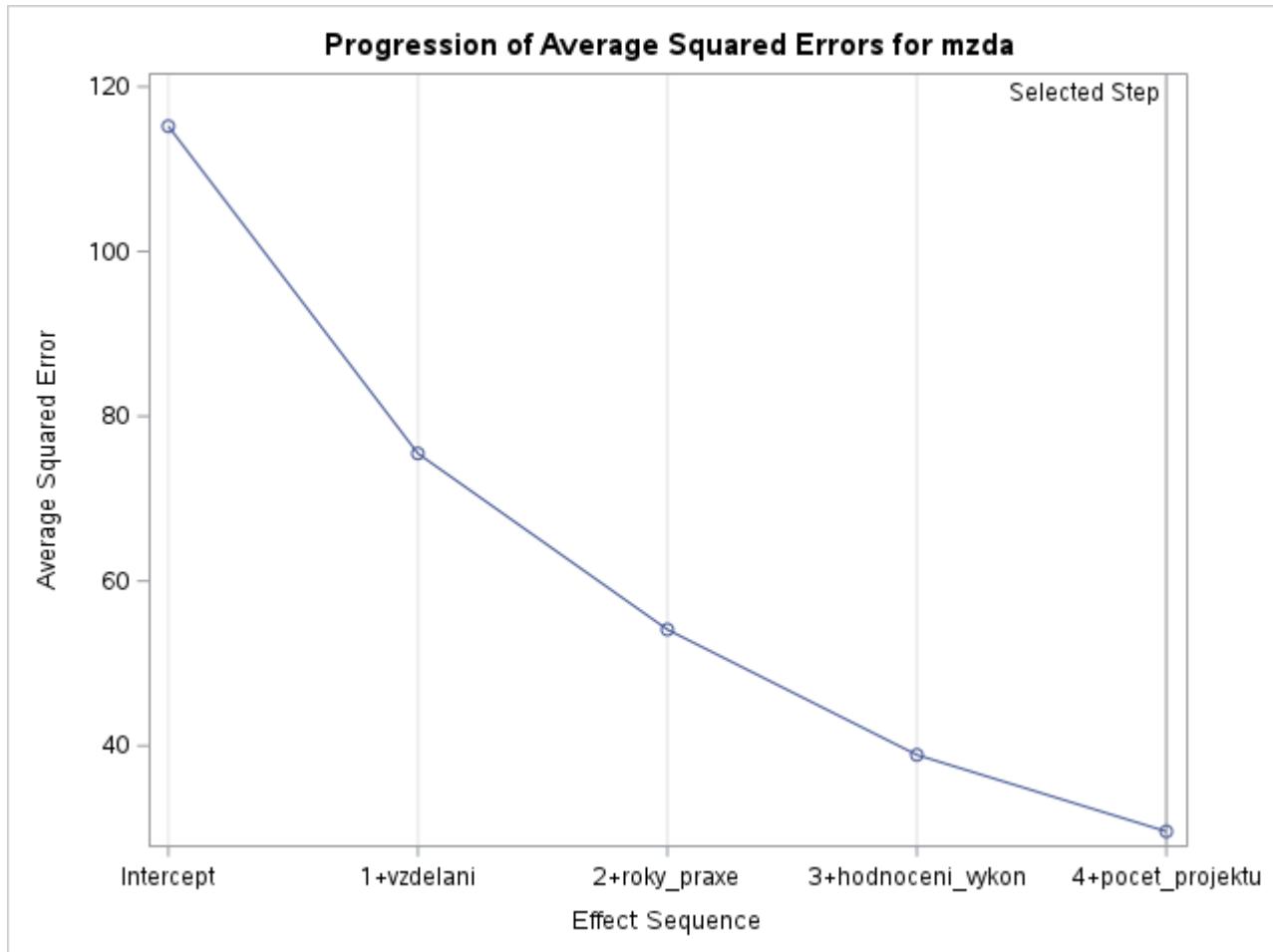
The GLMSELECT Procedure

Forward Selection Summary				
Step	Effect Entered	Number Effects In	F Value	Pr > F
0	Intercept	1	0.00	1.0000
1	vzdelani	2	156.79	<.0001
2	roky_praxe	3	117.30	<.0001
3	hodnoceni_vykon	4	115.76	<.0001
4	pocet_projektu	5	92.58	<.0001

Selection stopped as the candidate for entry has SLE > 0.01.

Stop Details				
Candidate For	Effect	Candidate Significance	Compare Significance	
Entry	delka_dovolene	0.0486	>	0.0100 (SLE)





### Forward Model Selection for Mzda - SL 0.01

The GLMSELECT Procedure  
Selected Model

The selected model is the model at the last step (Step 4).

**Effects:** Intercept roky\_praxe vzdelani pocet\_projektu hodnoceni\_vykon

**Note:** The p-values for parameters and effects are not adjusted for the fact that the terms in the model have been selected and so are generally liberal.

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	4	25677	6419.35403	213.19	<.0001
<b>Error</b>	295	8882.53716	30.11030		
<b>Corrected Total</b>	299	34560			

<b>Root MSE</b>	5.48728
<b>Dependent Mean</b>	104.58253
<b>R-Square</b>	0.7430
<b>Adj R-Sq</b>	0.7395
<b>AIC</b>	1328.41801
<b>AICC</b>	1328.70470
<b>SBC</b>	1044.93692

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
<b>Intercept</b>	1	28.251079	2.795457	10.11	<.0001
<b>roky_praxe</b>	1	0.893200	0.064144	13.92	<.0001

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	Pr >  t
vzdelani	1	2.596331	0.126949	20.45	<.0001
pocet_projektu	1	1.323976	0.137604	9.62	<.0001
hodnoceni_vykon	1	2.613922	0.216448	12.08	<.0001

**Mzda Model - Plots of Diagnostic Statistics**

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	25677	6419.35403	213.19	<.0001
Error	295	8882.53716	30.11030		
Corrected Total	299	34560			

Root MSE	5.48728	R-Square	0.7430
Dependent Mean	104.58253	Adj R-Sq	0.7395
Coeff Var	5.24685		

Parameter Estimates							
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits
Intercept	1	28.25108	2.79546	10.11	<.0001	0	22.74951 33.75264
roky_praxe	1	0.89320	0.06414	13.92	<.0001	0.41176	0.76696 1.01944
vzdelani	1	2.59633	0.12695	20.45	<.0001	0.60516	2.34649 2.84617
pocet_projektu	1	1.32398	0.13760	9.62	<.0001	0.28478	1.05317 1.59479
hodnoceni_vykon	1	2.61392	0.21645	12.08	<.0001	0.35719	2.18794 3.03990

**Mzda Model - Plots of Diagnostic Statistics**

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

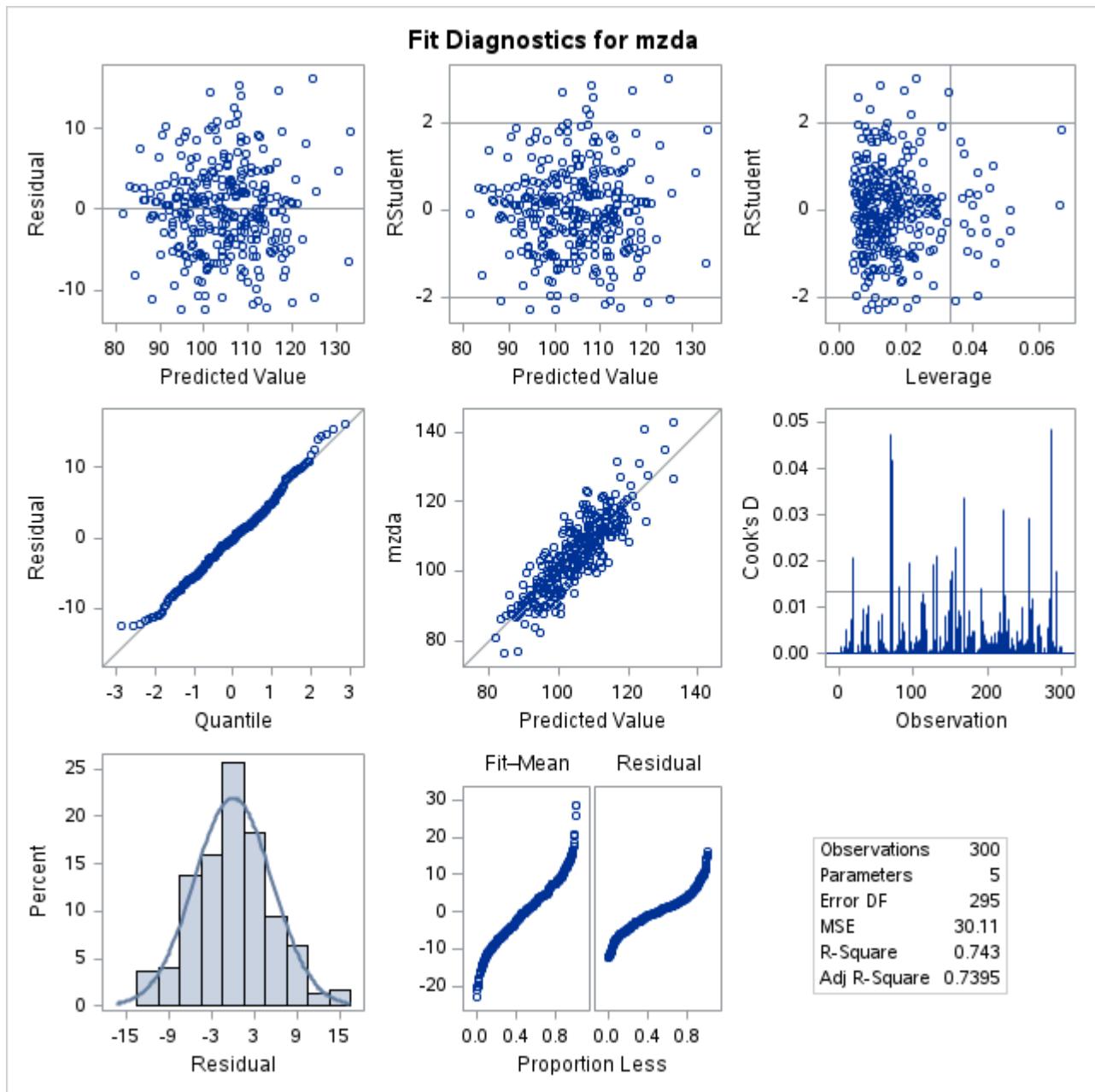
Test of First and Second Moment Specification		
DF	Chi-Square	Pr > ChiSq
14	19.39	0.1507

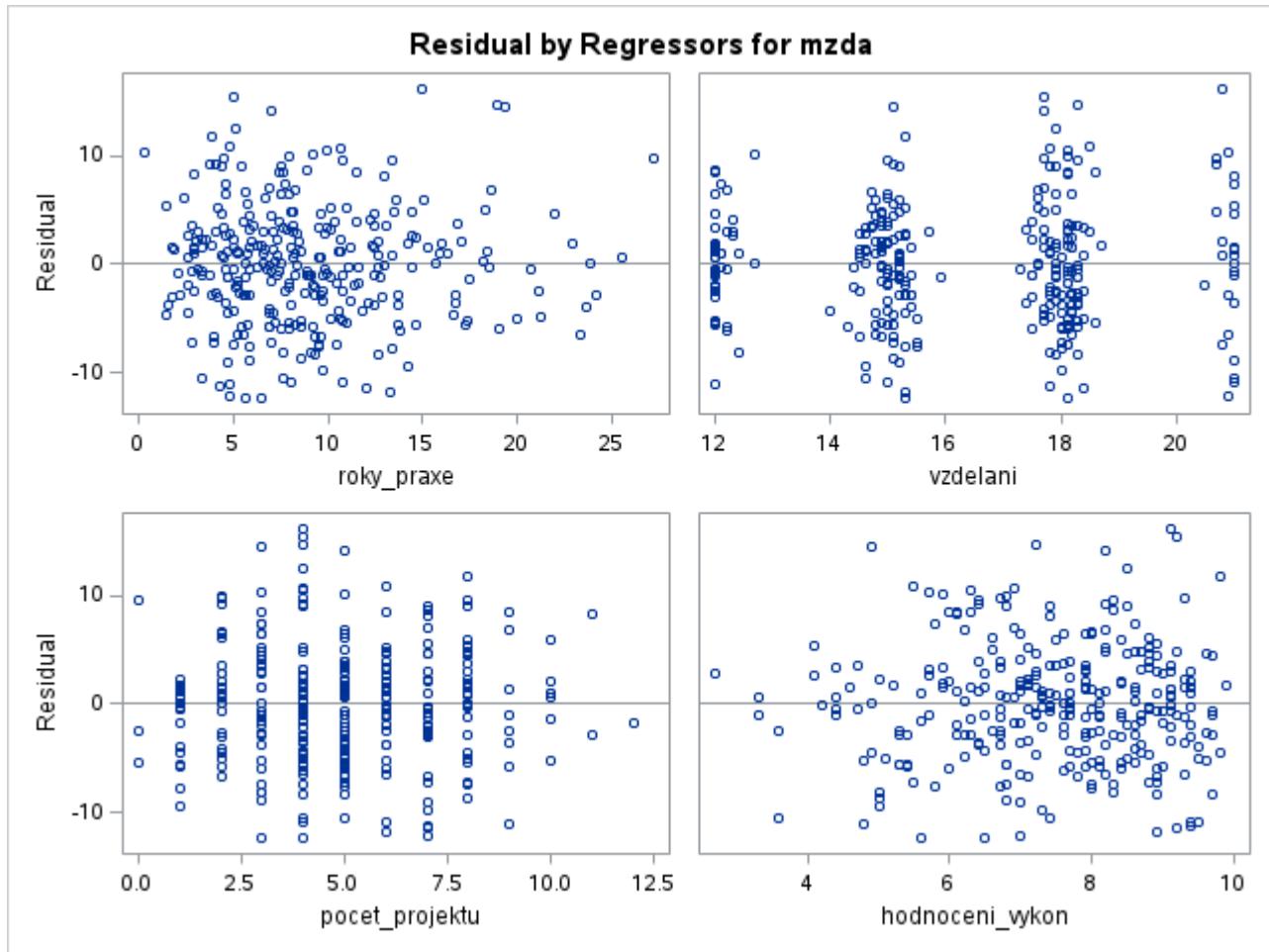
**Mzda Model - Plots of Diagnostic Statistics**

The REG Procedure

Model: MODEL1

Dependent Variable: mzda





### Diagnostika reziduí mzdy

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	25677	6419.35403	213.19	<.0001
Error	295	8882.53716	30.11030		
Corrected Total	299	34560			

Root MSE	5.48728	R-Square	0.7430
Dependent Mean	104.58253	Adj R-Sq	0.7395
Coeff Var	5.24685		

Parameter Estimates								
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits	
Intercept	1	28.25108	2.79546	10.11	<.0001	0	22.74951	33.75264
roky_praxe	1	0.89320	0.06414	13.92	<.0001	0.41176	0.76696	1.01944
vzdelani	1	2.59633	0.12695	20.45	<.0001	0.60516	2.34649	2.84617
pocet_projektu	1	1.32398	0.13760	9.62	<.0001	0.28478	1.05317	1.59479

Parameter Estimates							
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits
hodnoceni_vykon	1	2.61392	0.21645	12.08	<.0001	0.35719	2.18794 3.03990

### Diagnostika reziduí mzdy

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

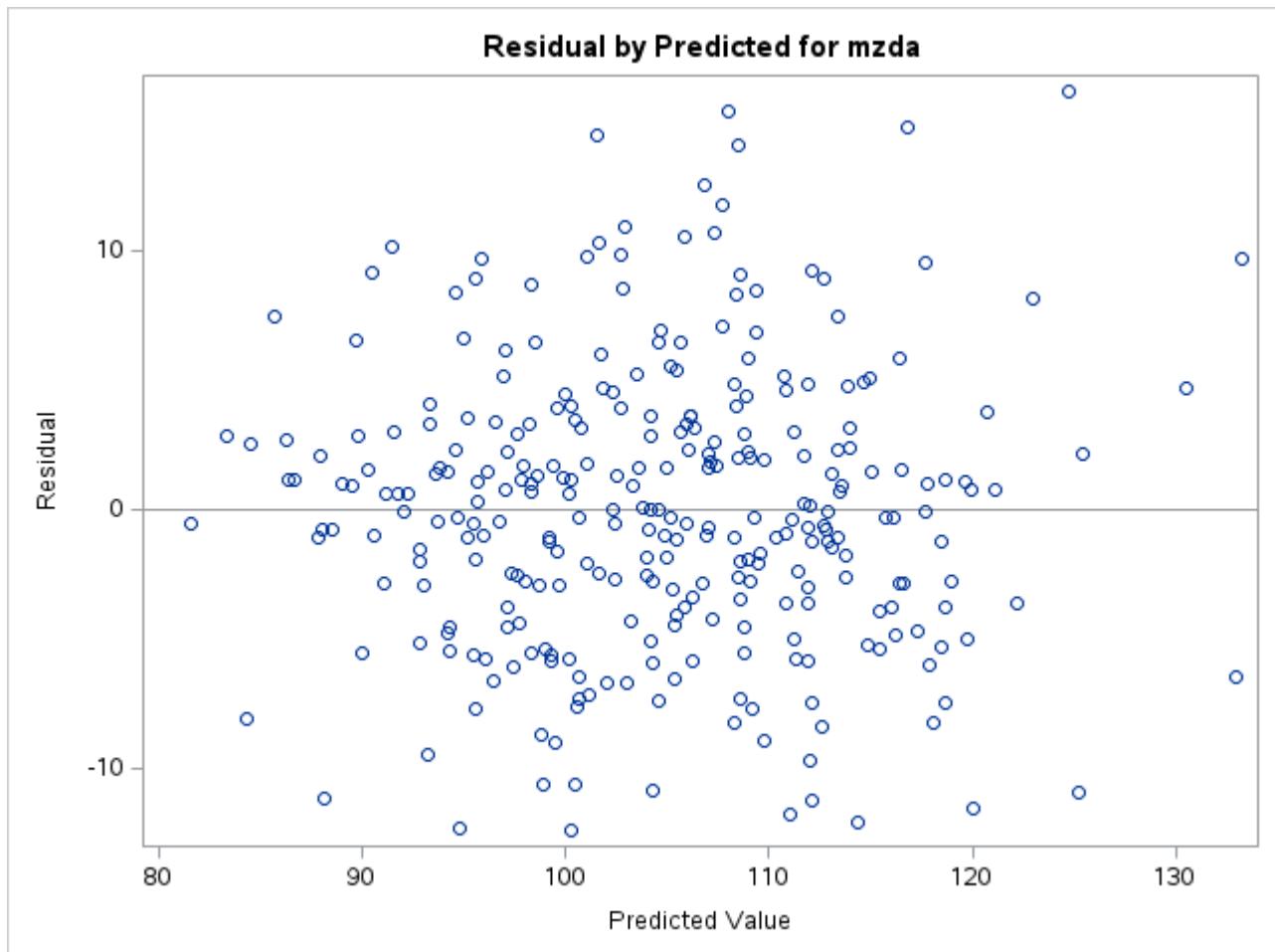
Test of First and Second Moment Specification		
DF	Chi-Square	Pr > ChiSq
14	19.39	0.1507

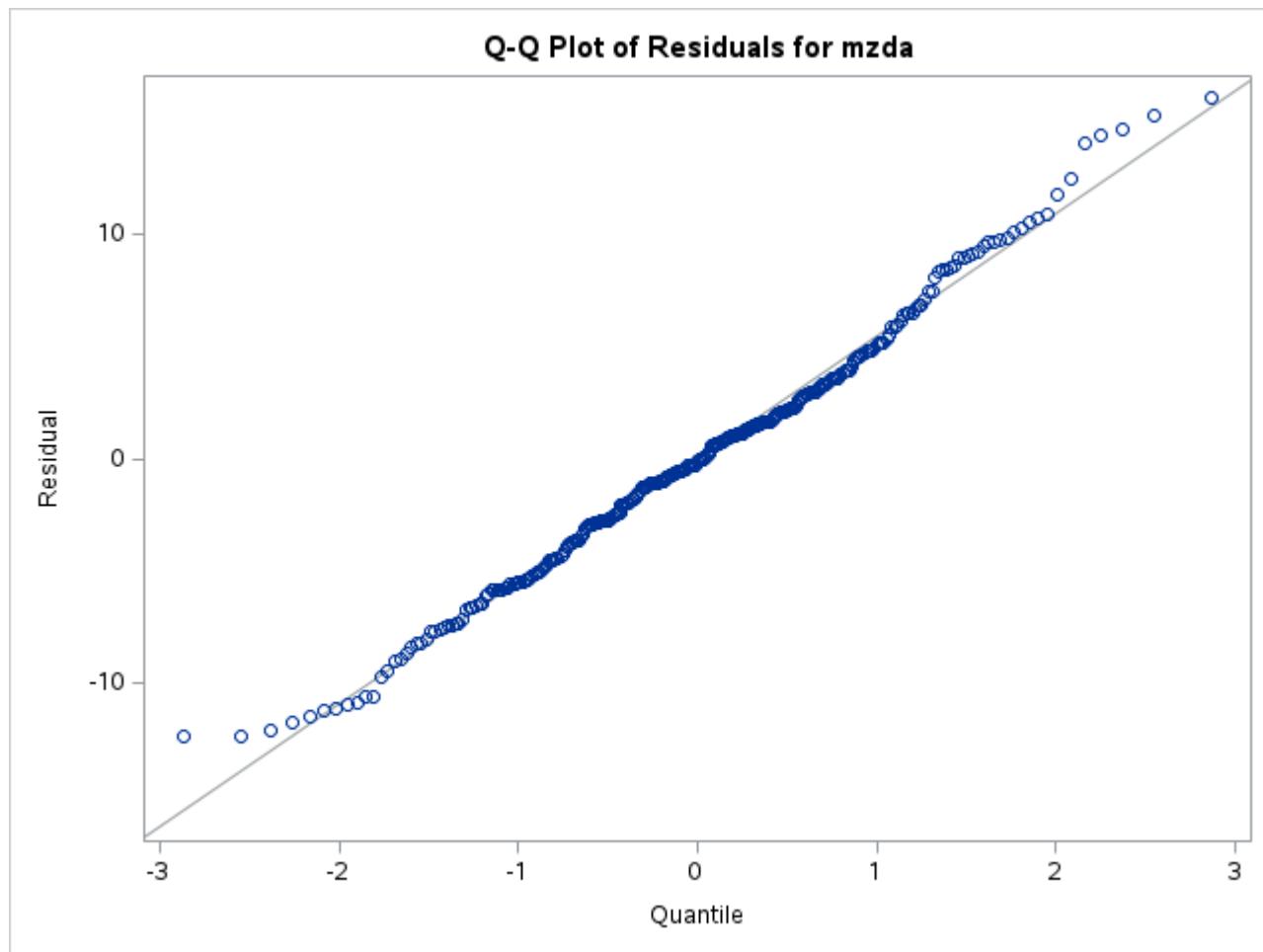
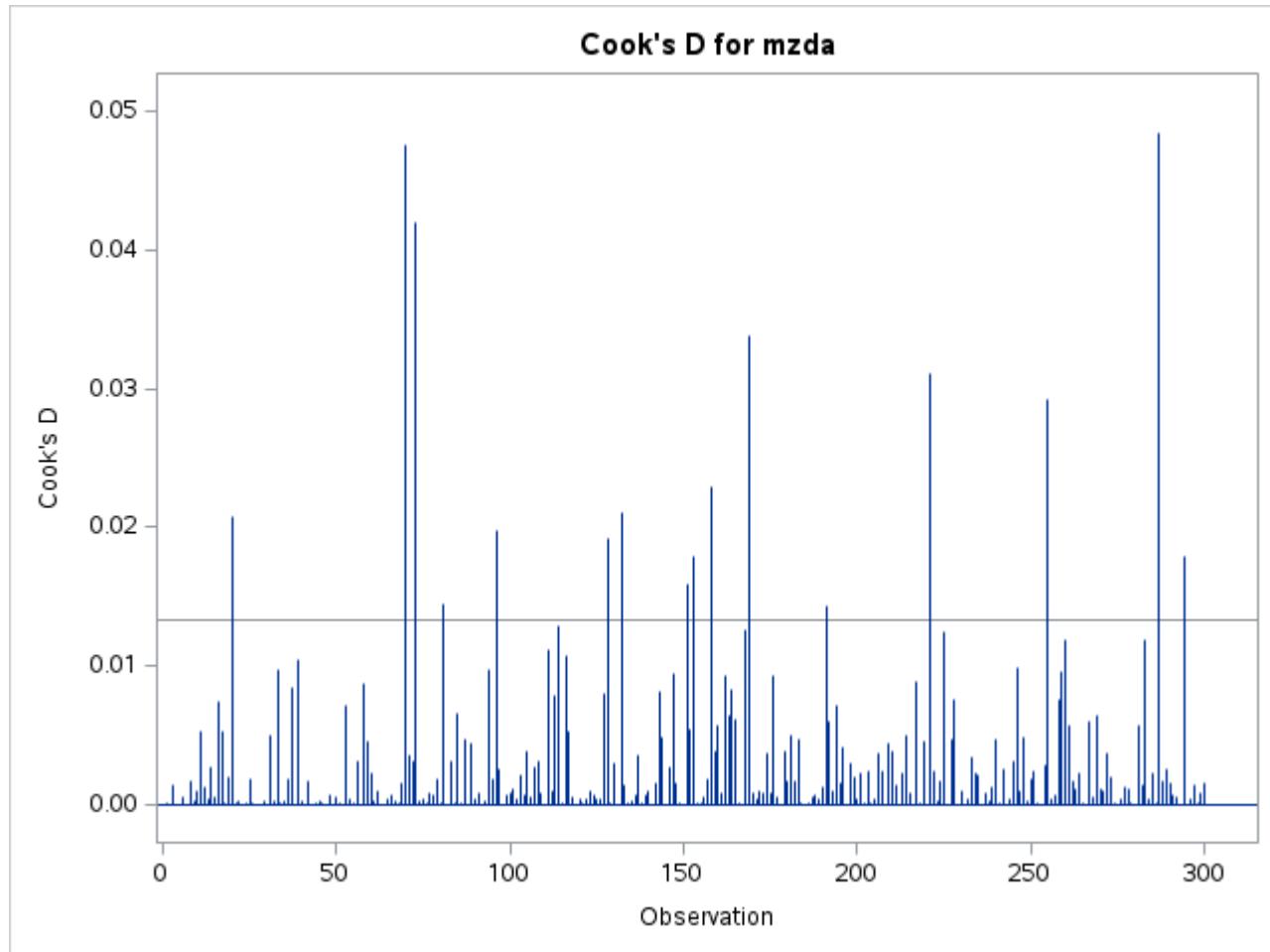
### Diagnostika reziduí mzdy

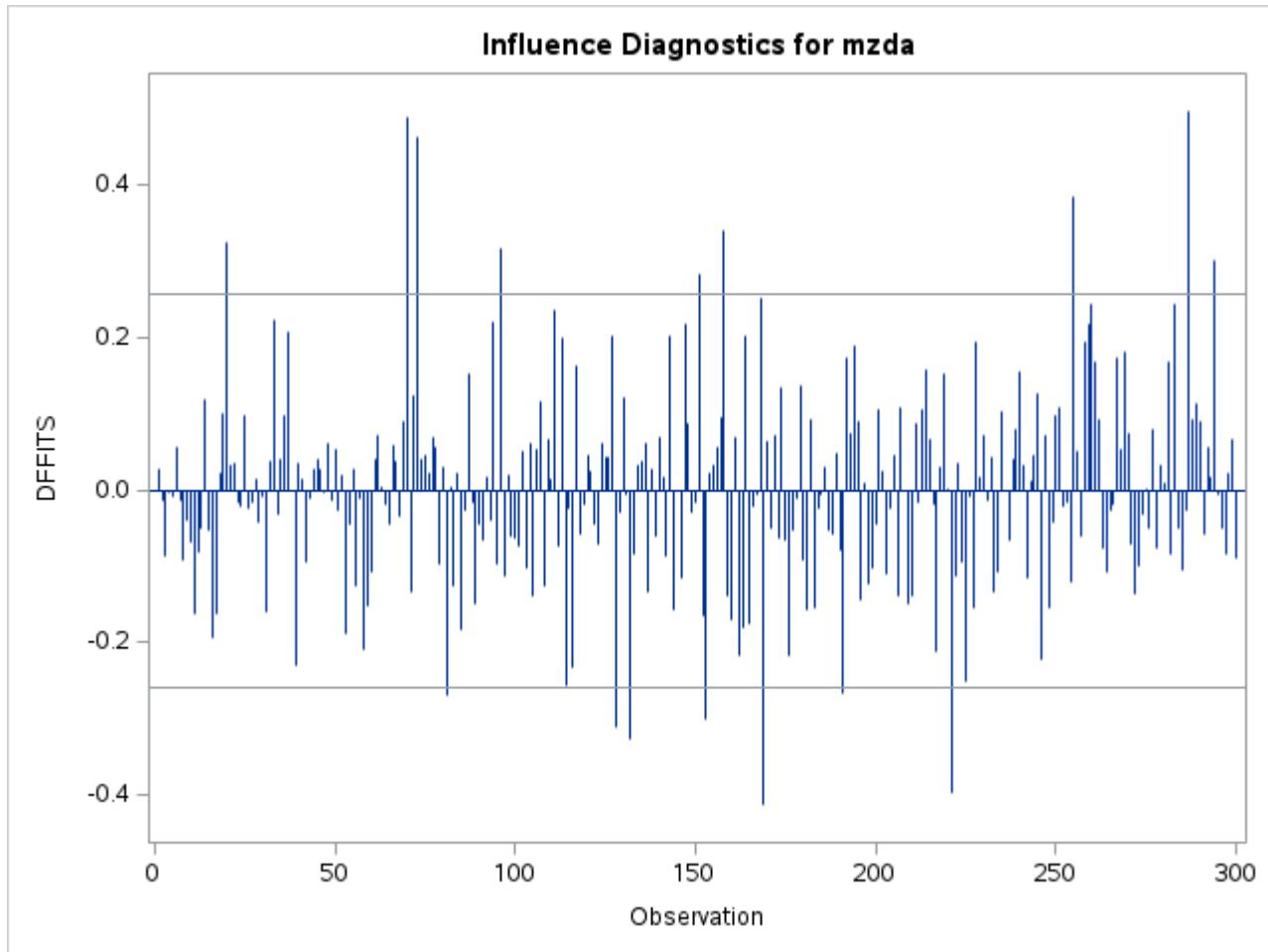
The REG Procedure

Model: MODEL1

Dependent Variable: mzda







### Collinearity diagnostics

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	25677	6419.35403	213.19	<.0001
Error	295	8882.53716	30.11030		
Corrected Total	299	34560			

Root MSE	5.48728	R-Square	0.7430
Dependent Mean	104.58253	Adj R-Sq	0.7395
Coeff Var	5.24685		

Parameter Estimates										
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	Tolerance	Variance Inflation	95% Confidence Limits	
Intercept	1	28.25108	2.79546	10.11	<.0001	0	.	0	22.74951	33.75264
rok_y_praxe	1	0.89320	0.06414	13.92	<.0001	0.41176	0.99638	1.00363	0.76696	1.01944
vzdelani	1	2.59633	0.12695	20.45	<.0001	0.60516	0.99510	1.00492	2.34649	2.84617
pocet_projektu	1	1.32398	0.13760	9.62	<.0001	0.28478	0.99455	1.00548	1.05317	1.59479

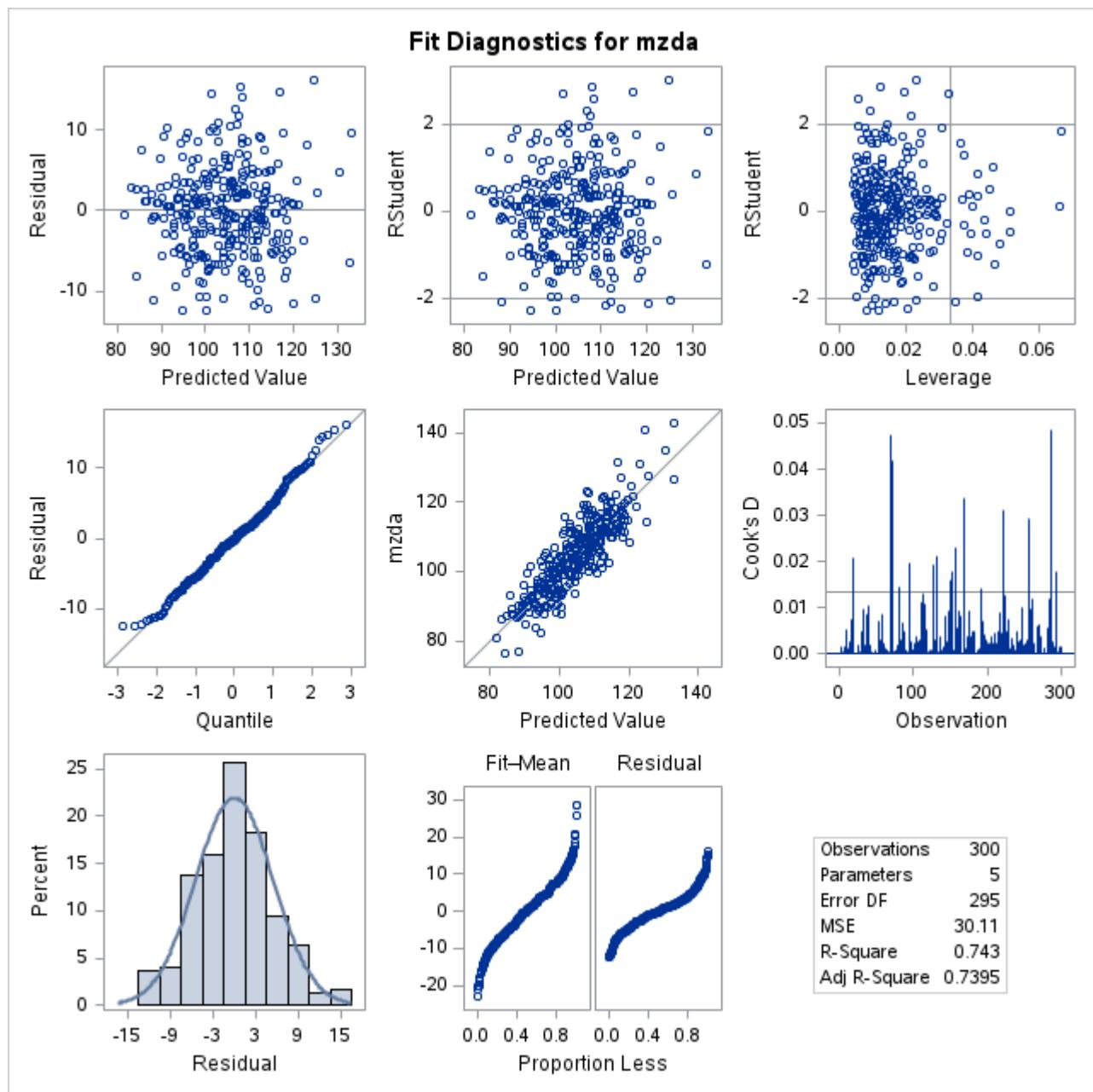
Parameter Estimates										
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	Tolerance	Variance Inflation	95% Confidence Limits	
hodnoceni_vykon	1	2.61392	0.21645	12.08	<.0001	0.35719	0.99593	1.00408	2.18794	

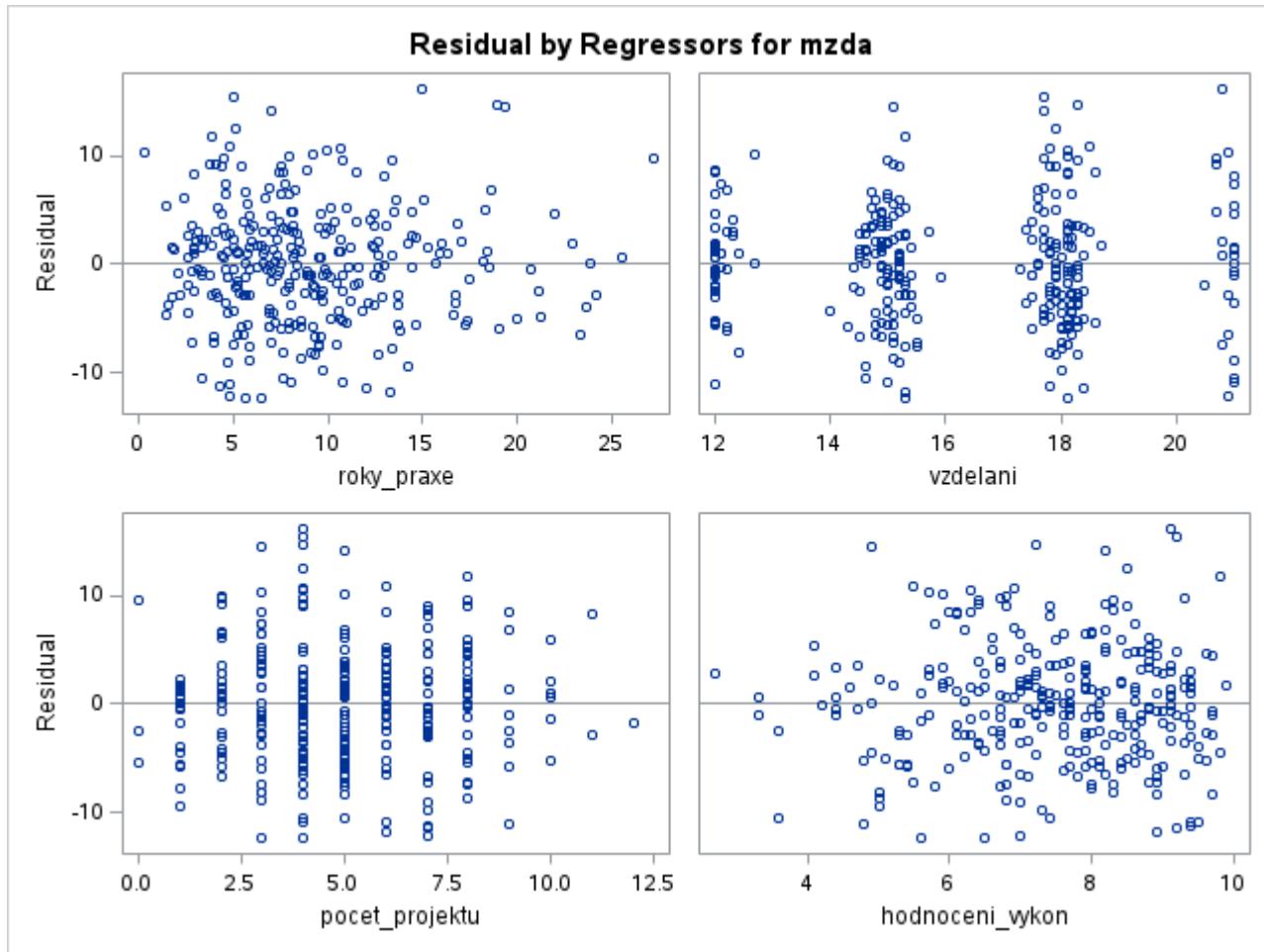
### Collinearity diagnostics

The REG Procedure

Model: MODEL1

Dependent Variable: mzda





### Mazda Model - Plots of Diagnostic Statistics

The REG Procedure

Model: MODEL1

Dependent Variable: mazda

Number of Observations Read	300
Number of Observations Used	300

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	25677	6419.35403	213.19	<.0001
Error	295	8882.53716	30.11030		
Corrected Total	299	34560			

Root MSE	5.48728	R-Square	0.7430
Dependent Mean	104.58253	Adj R-Sq	0.7395
Coeff Var	5.24685		

Parameter Estimates								
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits	
Intercept	1	28.25108	2.79546	10.11	<.0001	0	22.74951	33.75264
roky_praxe	1	0.89320	0.06414	13.92	<.0001	0.41176	0.76696	1.01944
vzdelani	1	2.59633	0.12695	20.45	<.0001	0.60516	2.34649	2.84617
pocet_projektu	1	1.32398	0.13760	9.62	<.0001	0.28478	1.05317	1.59479

Parameter Estimates							
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits
hodnoceni_vykon	1	2.61392	0.21645	12.08	<.0001	0.35719	2.18794 3.03990

### Mzda Model - Plots of Diagnostic Statistics

The REG Procedure

Model: MODEL1

Dependent Variable: mzda

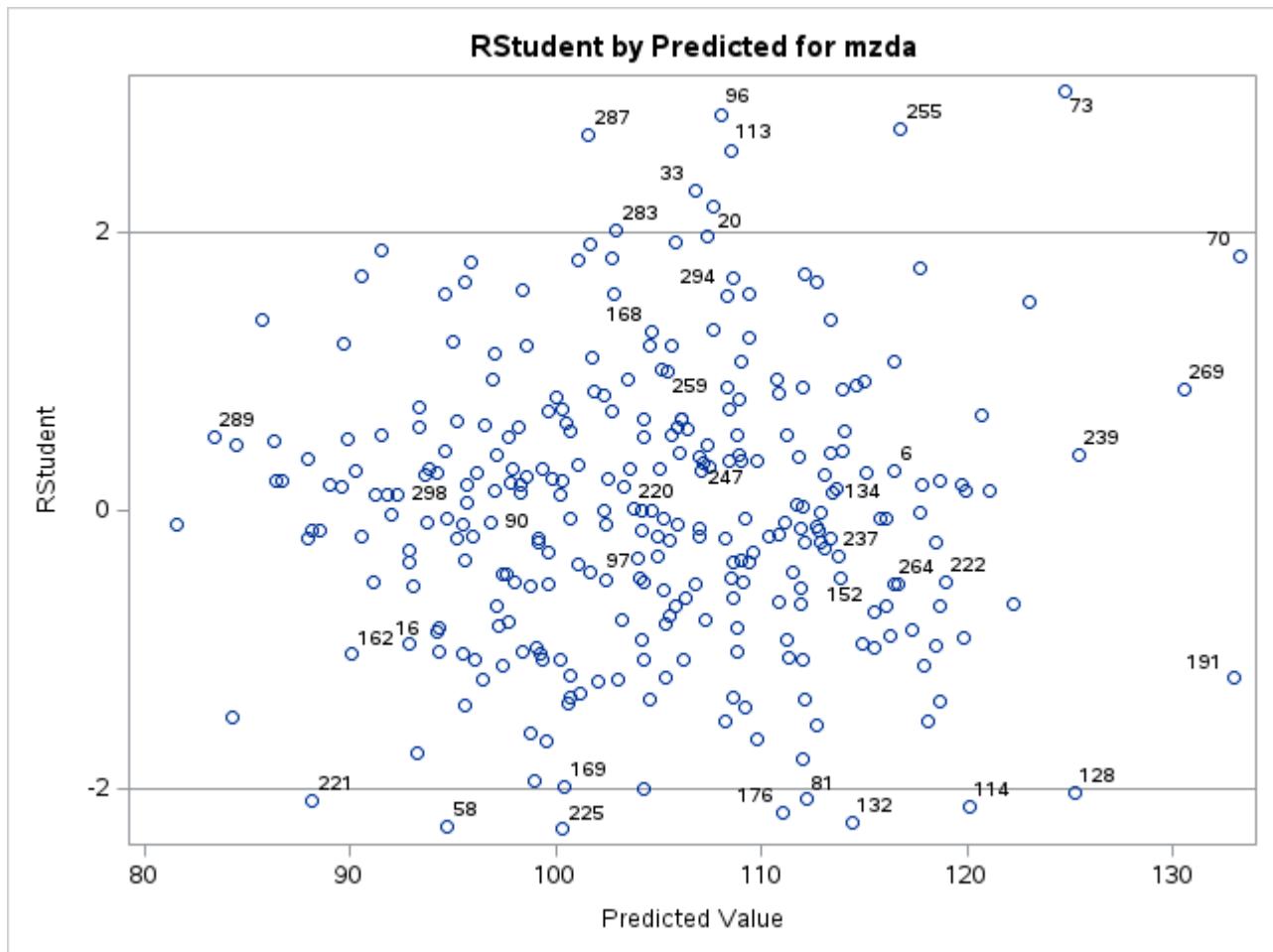
Test of First and Second Moment Specification		
DF	Chi-Square	Pr > ChiSq
14	19.39	0.1507

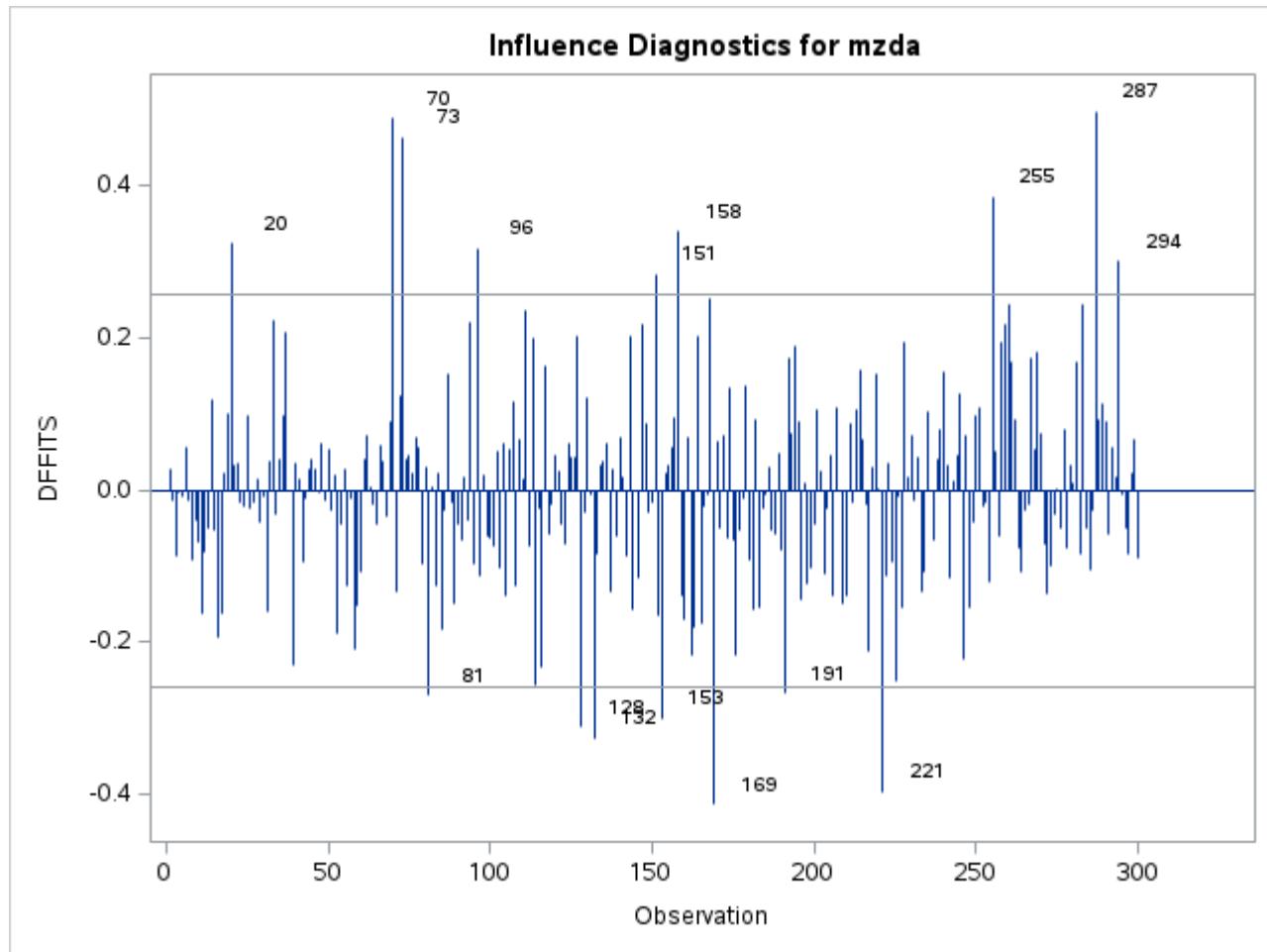
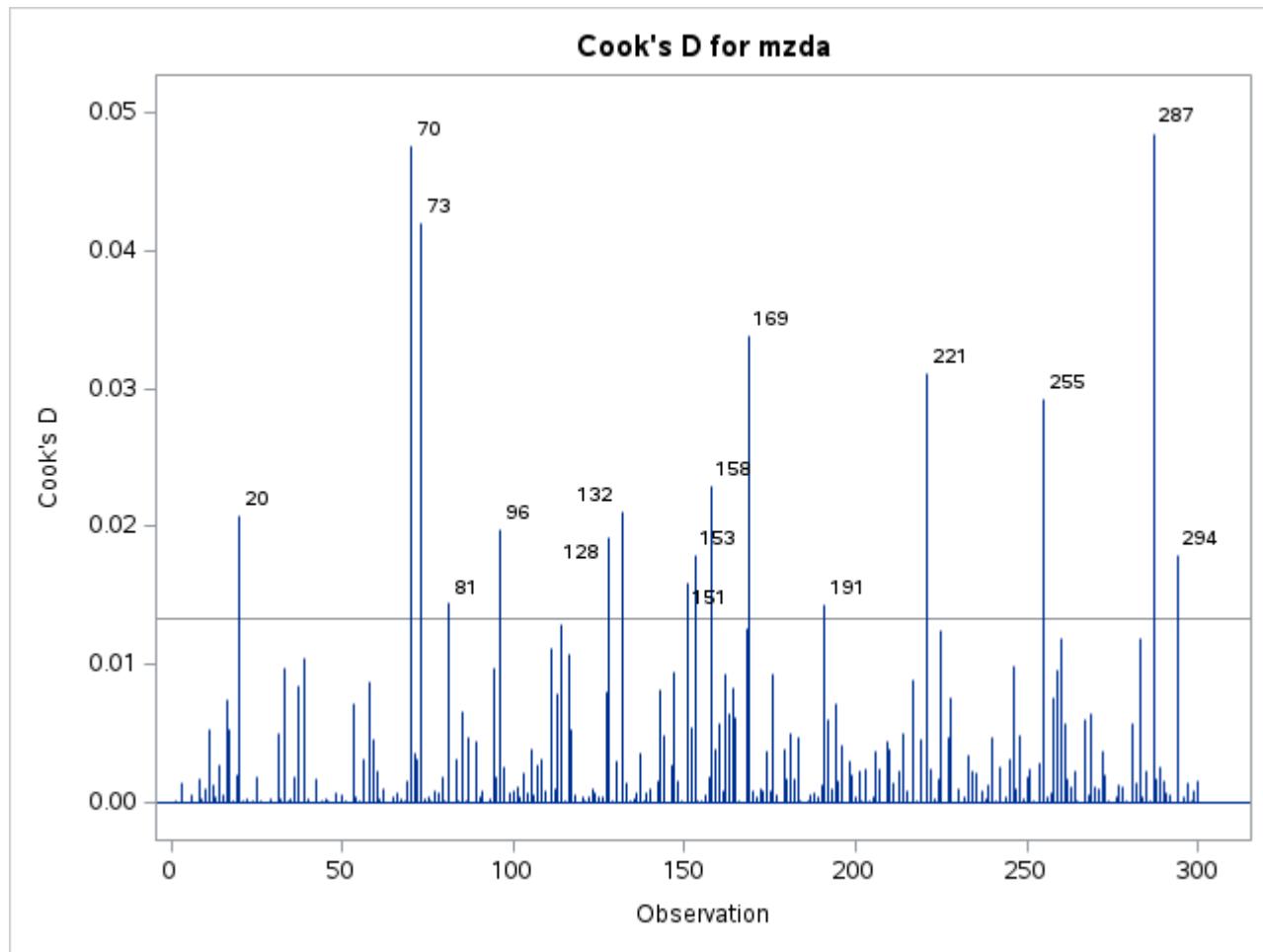
### Mzda Model - Plots of Diagnostic Statistics

The REG Procedure

Model: MODEL1

Dependent Variable: mzda





**Mzda Model - Plots of Diagnostic Statistics****The MEANS Procedure**

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
CooksD	Cook's D Influence Statistic	300	0.003	0.007	0.000	0.048
DFFits	Standard Influence on Predicted Value	300	0.001	0.132	-0.413	0.497