

Obs	Plocha garáží	Rok prodeje	Cena nemovitosti v USD	Stáří domu
1	582	2010	213500	9
2	506	2010	191500	18
3	0	2010	115000	39
4	437	2010	160000	4
5	400	2010	180000	10
6	264	2010	125000	26
7	484	2010	206000	32
8	504	2010	159000	44
9	484	2010	180500	46
10	240	2010	142125	60

## Interval Variables Distribution Analysis

The UNIVARIATE Procedure  
Variable: SalePrice (Cena nemovitosti v USD)

Moments			
N	173	Sum Weights	173
Mean	141000.289	Sum Observations	24393050
Std Deviation	39854.8335	Variance	1588407754
Skewness	0.27645598	Kurtosis	0.58225599
Uncorrected SS	3.71263E12	Corrected SS	2.73206E11
Coeff Variation	28.2657814	Std Error Mean	3030.10688

Basic Statistical Measures			
Location		Variability	
Mean	141000.3	Std Deviation	39855
Median	141000.0	Variance	1588407754
Mode	155000.0	Range	245000
		Interquartile Range	50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	46.53311	Pr >  t	<.0001
Sign	M	86.5	Pr >=  M	<.0001
Signed Rank	S	7525.5	Pr >=  S	<.0001

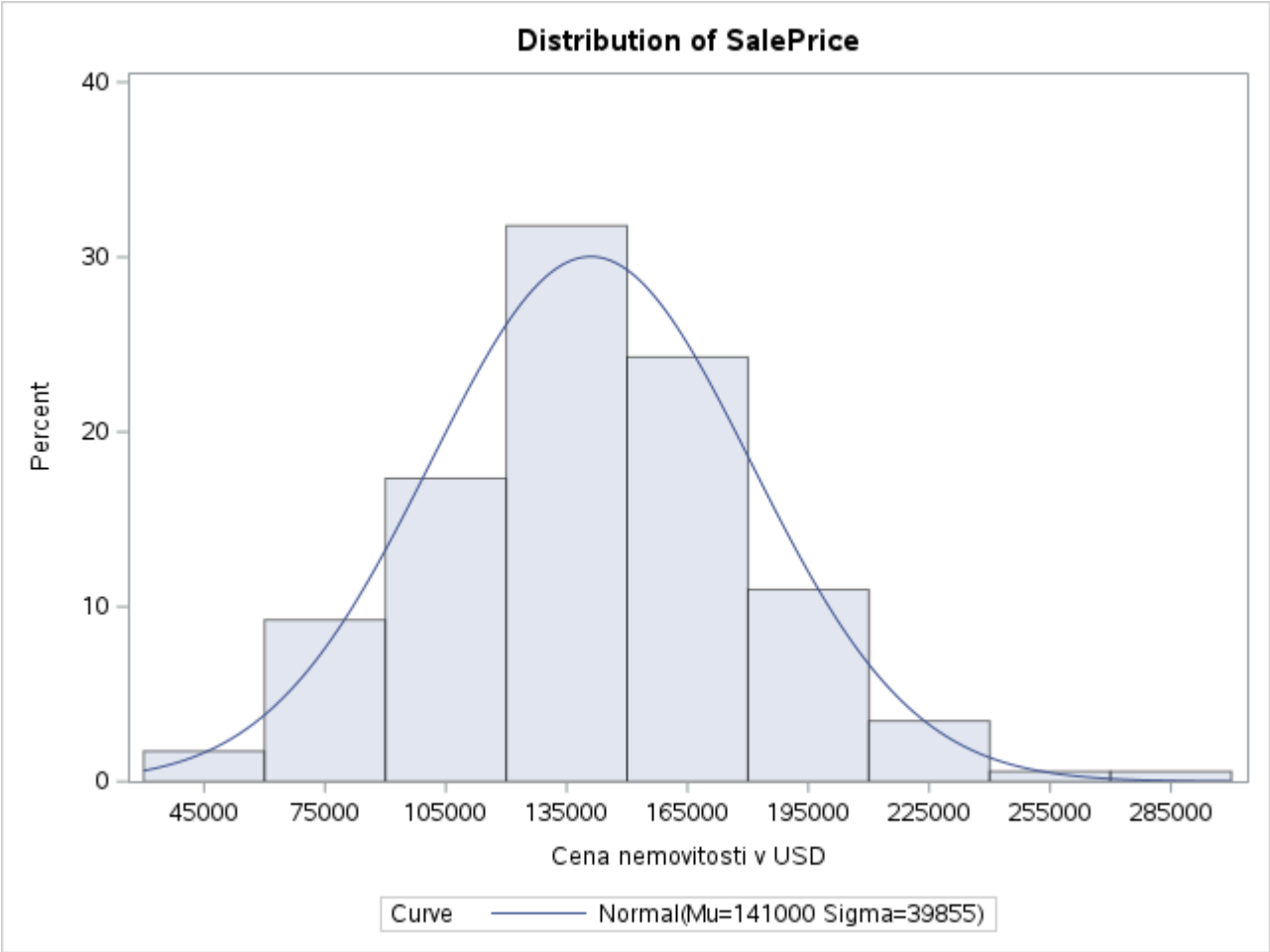
Quantiles (Definition 5)	
Level	Quantile
100% Max	290000
99%	245000
95%	207500
90%	191500
75% Q3	165000
50% Median	141000
25% Q1	115000
10%	89500
5%	80000
1%	52000
0% Min	45000



Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
45000	77	213500	105
52000	130	220000	106
59000	70	235000	151
60000	100	245000	54
60000	83	290000	123

Interval Variables Distribution Analysis

The UNIVARIATE Procedure



Interval Variables Distribution Analysis

The UNIVARIATE Procedure

Fitted Normal Distribution for SalePrice (Cena nemovitosti v USD)

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	141000.3
Std Dev	Sigma	39854.83

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.04064954	Pr > D	>0.150
Cramer-von Mises	W-Sq	0.02969924	Pr > W-Sq	>0.250
Anderson-Darling	A-Sq	0.20220459	Pr > A-Sq	>0.250



Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	52000.0	48284.1
5.0	80000.0	75444.9
10.0	89500.0	89924.3
25.0	115000.0	114118.6
50.0	141000.0	141000.3
75.0	165000.0	167882.0
90.0	191500.0	192076.3
95.0	207500.0	206555.7
99.0	245000.0	233716.5

Interval Variables Distribution Analysis

The UNIVARIATE Procedure  
Variable: Age\_Sold (Stáří domu)

Moments			
N	173	Sum Weights	173
Mean	44.9768786	Sum Observations	7781
Std Deviation	28.4300352	Variance	808.266904
Skewness	0.27939429	Kurtosis	-0.4361504
Uncorrected SS	488987	Corrected SS	139021.908
Coeff Variation	63.2103341	Std Error Mean	2.16149555

Basic Statistical Measures			
Location		Variability	
Mean	44.97688	Std Deviation	28.43004
Median	46.00000	Variance	808.26690
Mode	4.00000	Range	134.00000
		Interquartile Range	38.00000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.80822	Pr >  t	<.0001
Sign	M	86.5	Pr >=  M	<.0001
Signed Rank	S	7525.5	Pr >=  S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	135
99%	108
95%	93
90%	87
75% Q3	62
50% Median	46
25% Q1	24
10%	6
5%	4
1%	2

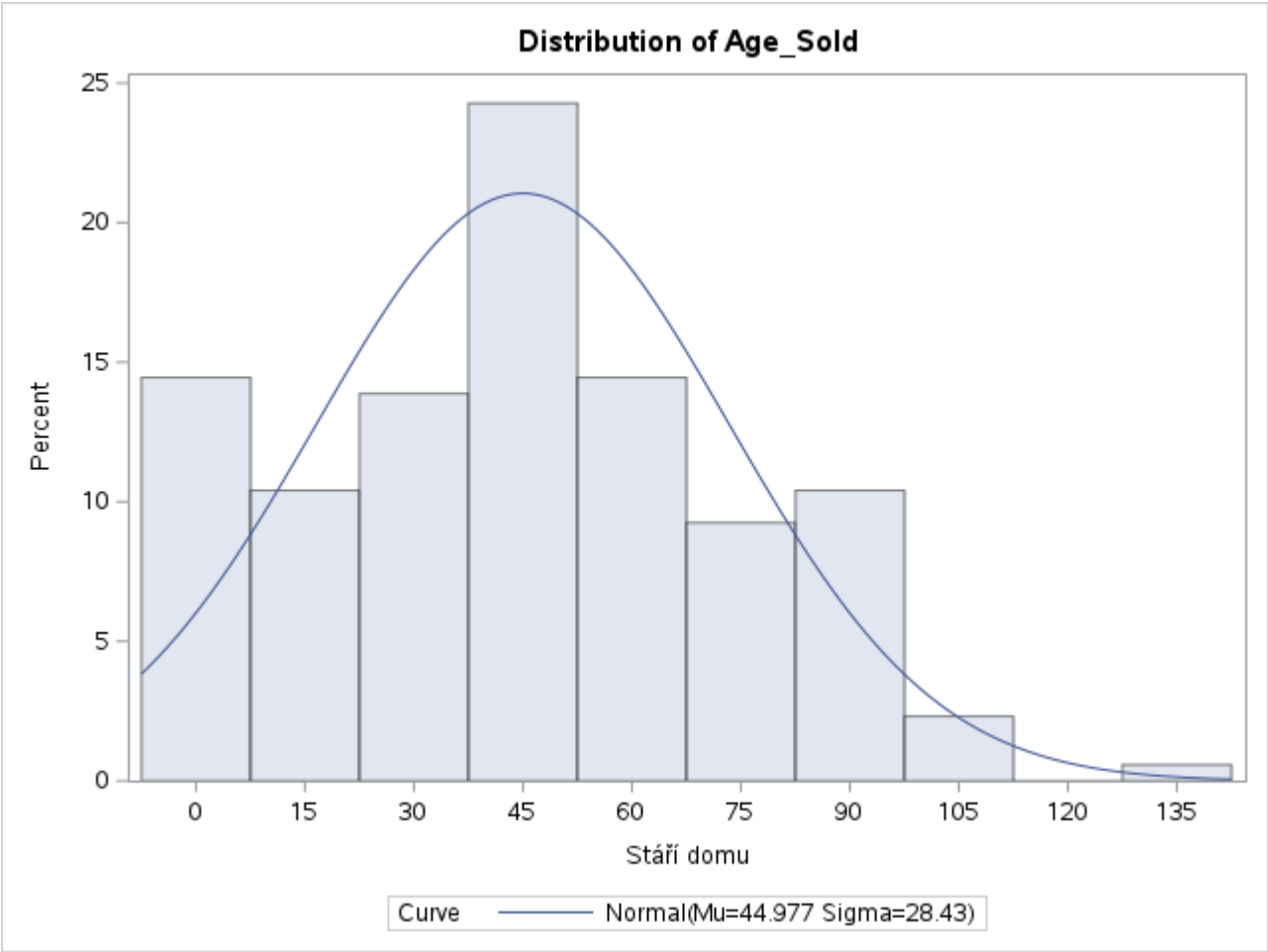


Quantiles (Definition 5)	
Level	Quantile
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	26	98	156
2	122	99	76
2	104	102	148
2	51	108	155
2	49	135	22

Interval Variables Distribution Analysis

The UNIVARIATE Procedure



Interval Variables Distribution Analysis

The UNIVARIATE Procedure  
Fitted Normal Distribution for Age\_Sold (Stáří domu)

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	44.97688
Std Dev	Sigma	28.43004

Goodness-of-Fit Tests for Normal Distribution		
Test	Statistic	p Value



Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.08723549	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.17538353	Pr > W-Sq	0.011
Anderson-Darling	A-Sq	1.63390650	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	2.00000	-21.16127
5.0	4.00000	-1.78637
10.0	6.00000	8.54232
25.0	24.00000	25.80111
50.0	46.00000	44.97688
75.0	62.00000	64.15265
90.0	87.00000	81.41143
95.0	93.00000	91.74013
99.0	108.00000	111.11503

Interval Variables Distribution Analysis

The UNIVARIATE Procedure  
Variable: Garage\_Area (Plocha garáží)

Moments			
N	173	Sum Weights	173
Mean	367.739884	Sum Observations	63619
Std Deviation	186.223785	Variance	34679.2982
Skewness	-0.414167	Kurtosis	0.02180492
Uncorrected SS	29360083	Corrected SS	5964839.29
Coeff Variation	50.6400837	Std Error Mean	14.1583322

Basic Statistical Measures			
Location		Variability	
Mean	367.7399	Std Deviation	186.22379
Median	400.0000	Variance	34679
Mode	0.0000	Range	902.00000
		Interquartile Range	240.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.97339	Pr >  t	<.0001
Sign	M	76	Pr >=  M	<.0001
Signed Rank	S	5814	Pr >=  S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	902
99%	850
95%	610
90%	580
75% Q3	504
50% Median	400

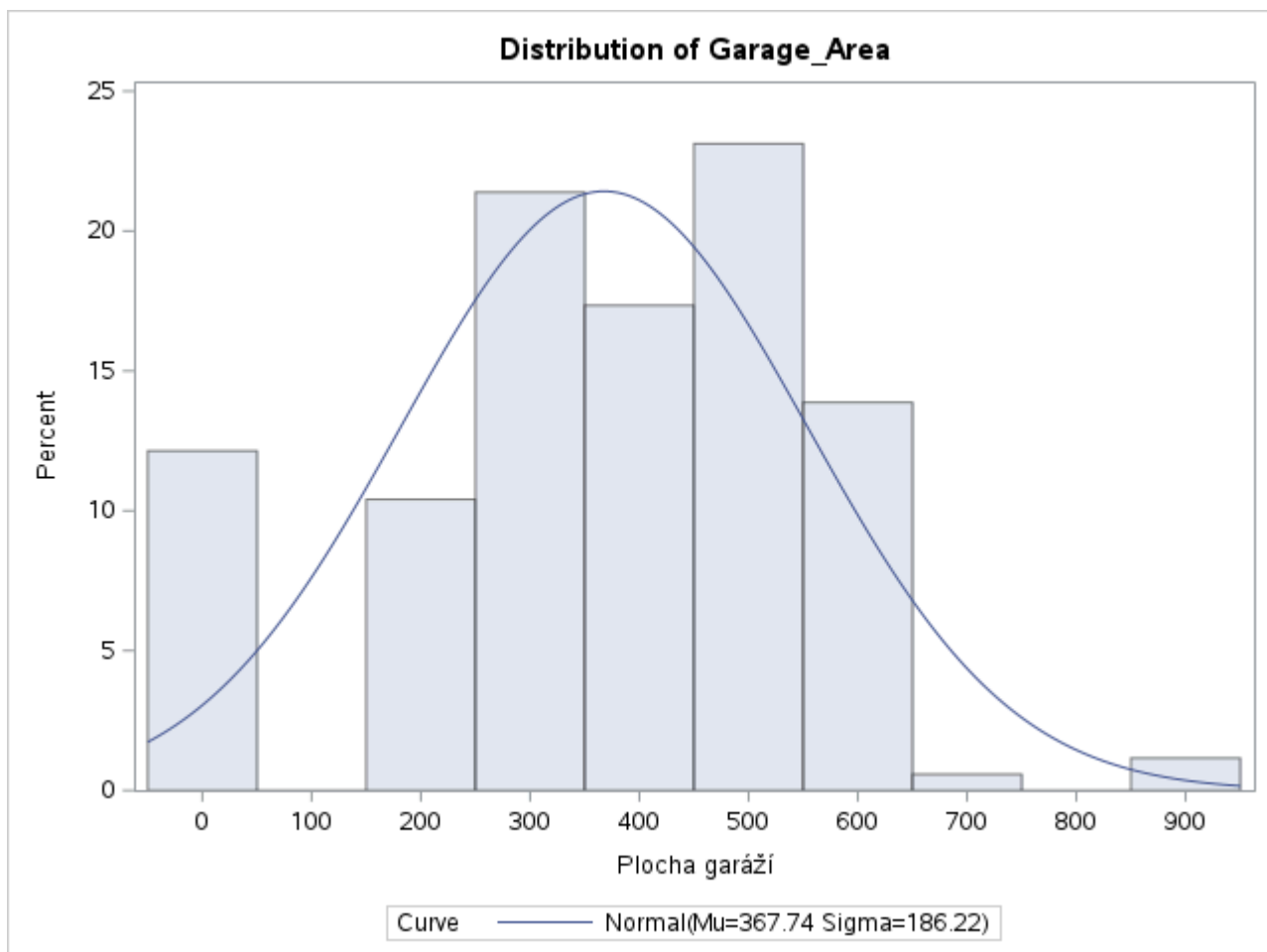


Quantiles (Definition 5)	
Level	Quantile
25% Q1	264
10%	0
5%	0
1%	0
0% Min	0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	163	625	122
0	158	626	51
0	156	666	90
0	154	850	172
0	149	902	44

## Interval Variables Distribution Analysis

The UNIVARIATE Procedure



## Interval Variables Distribution Analysis

The UNIVARIATE Procedure  
Fitted Normal Distribution for Garage\_Area (Plocha garáží)

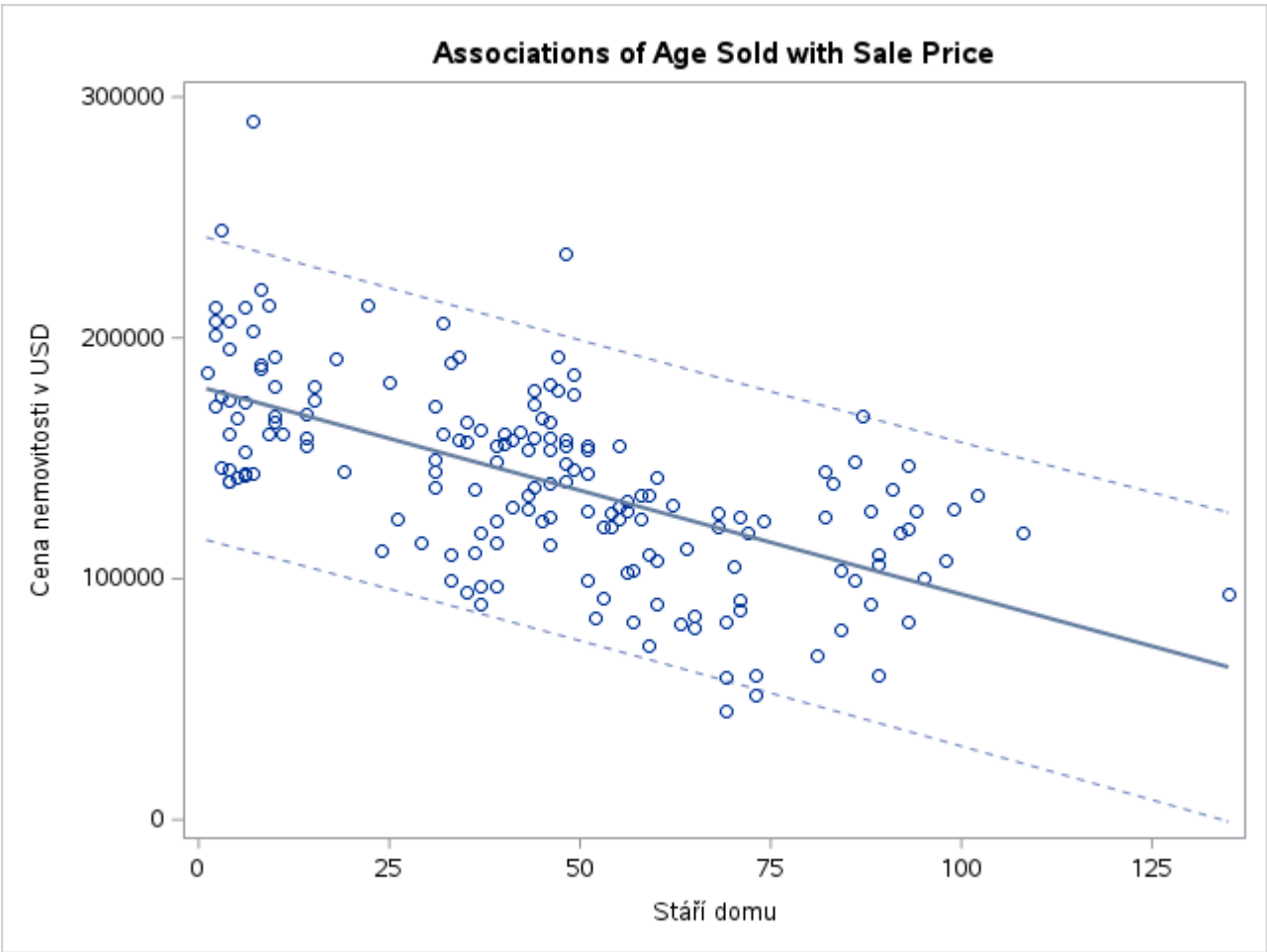
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	367.7399



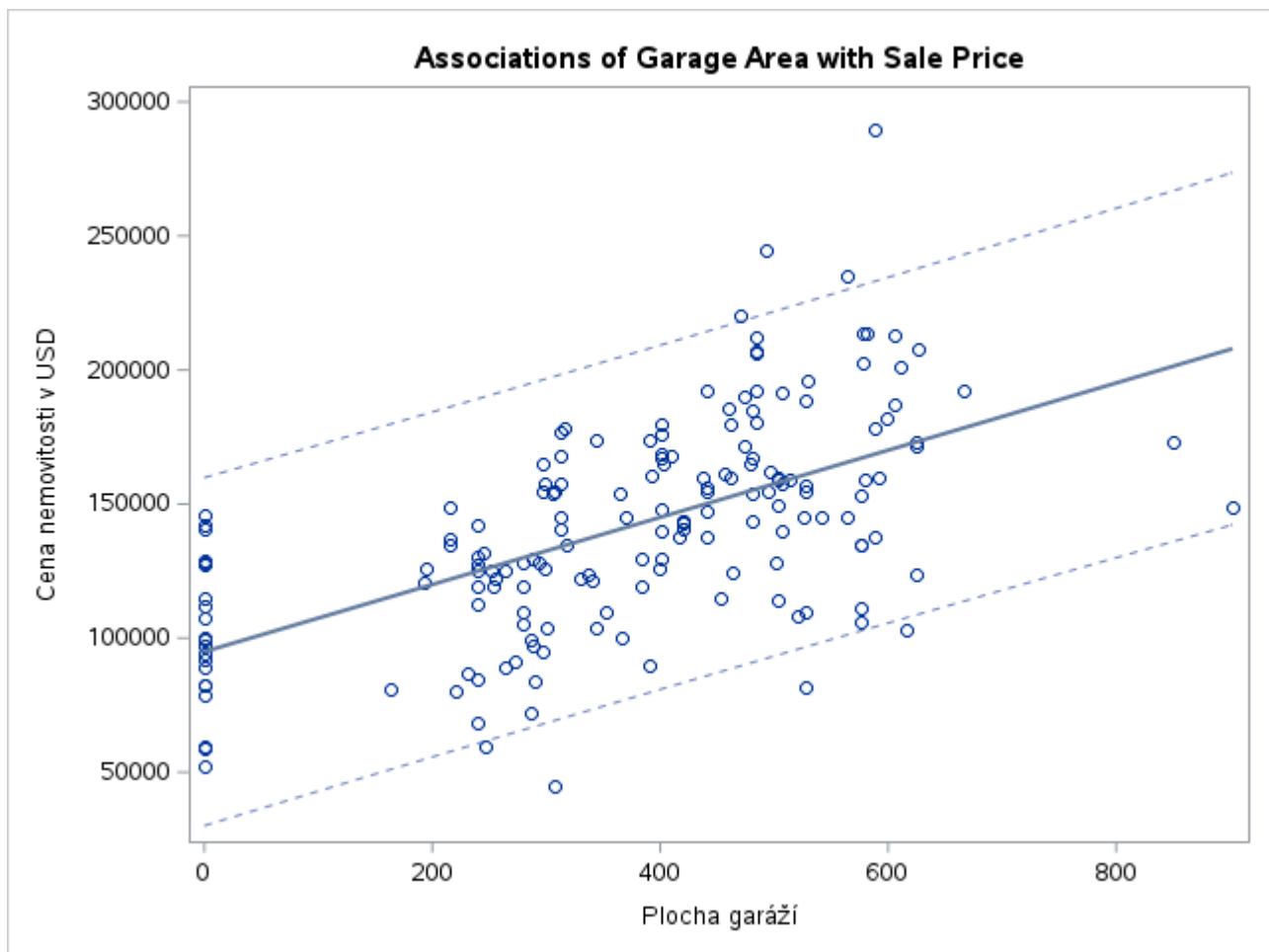
Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Std Dev	Sigma	186.2238

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.09723733	Pr > D	<0.010
Cramer-von Mises	W-Sq	0.30241945	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	2.88656658	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	0.000	-65.4814
5.0	0.000	61.4290
10.0	0.000	129.0845
25.0	264.000	242.1338
50.0	400.000	367.7399
75.0	504.000	493.3459
90.0	580.000	606.3953
95.0	610.000	674.0508
99.0	850.000	800.9612







### Correlations and Scatter Plots with SalePrice

The CORR Procedure

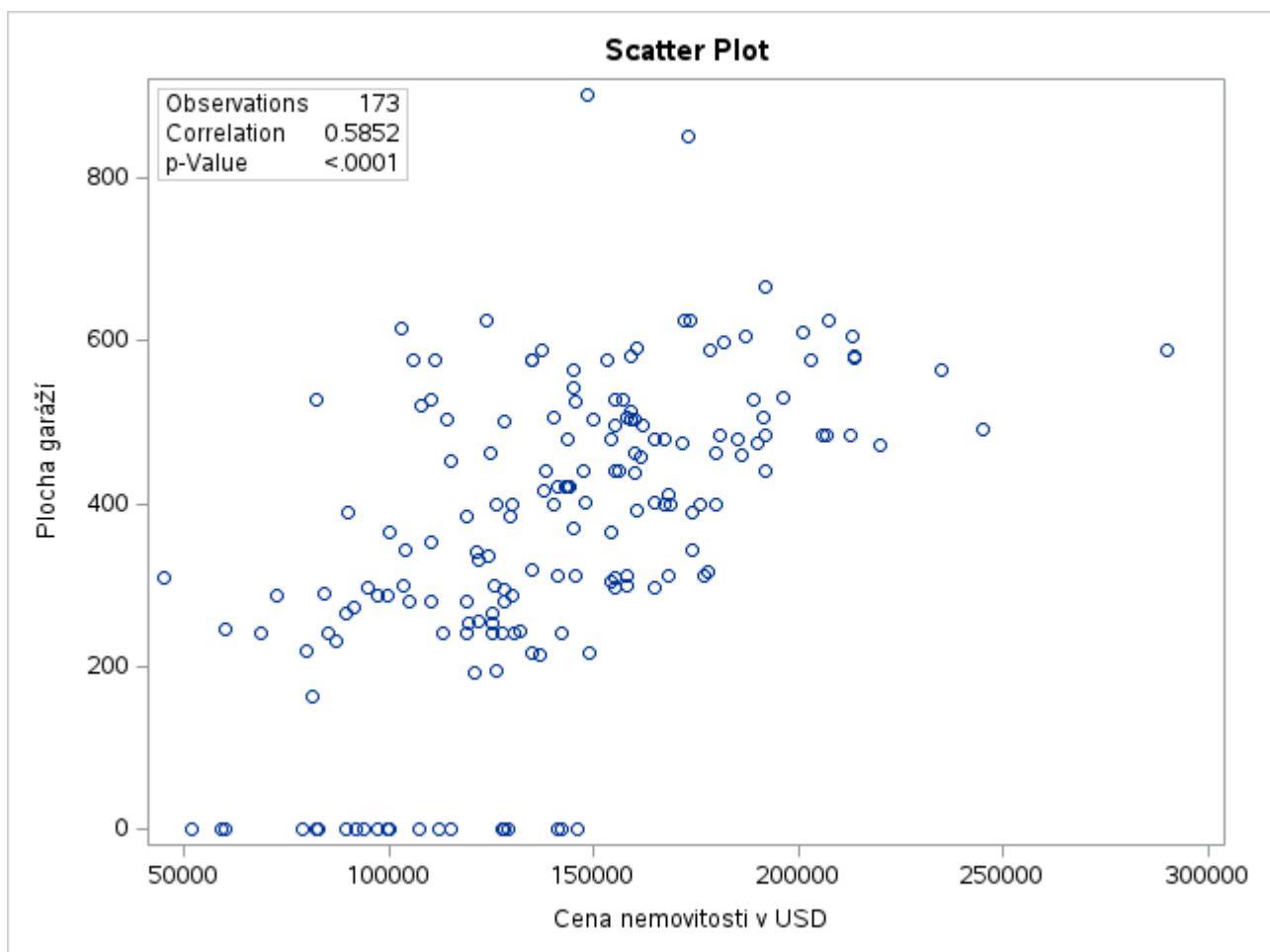
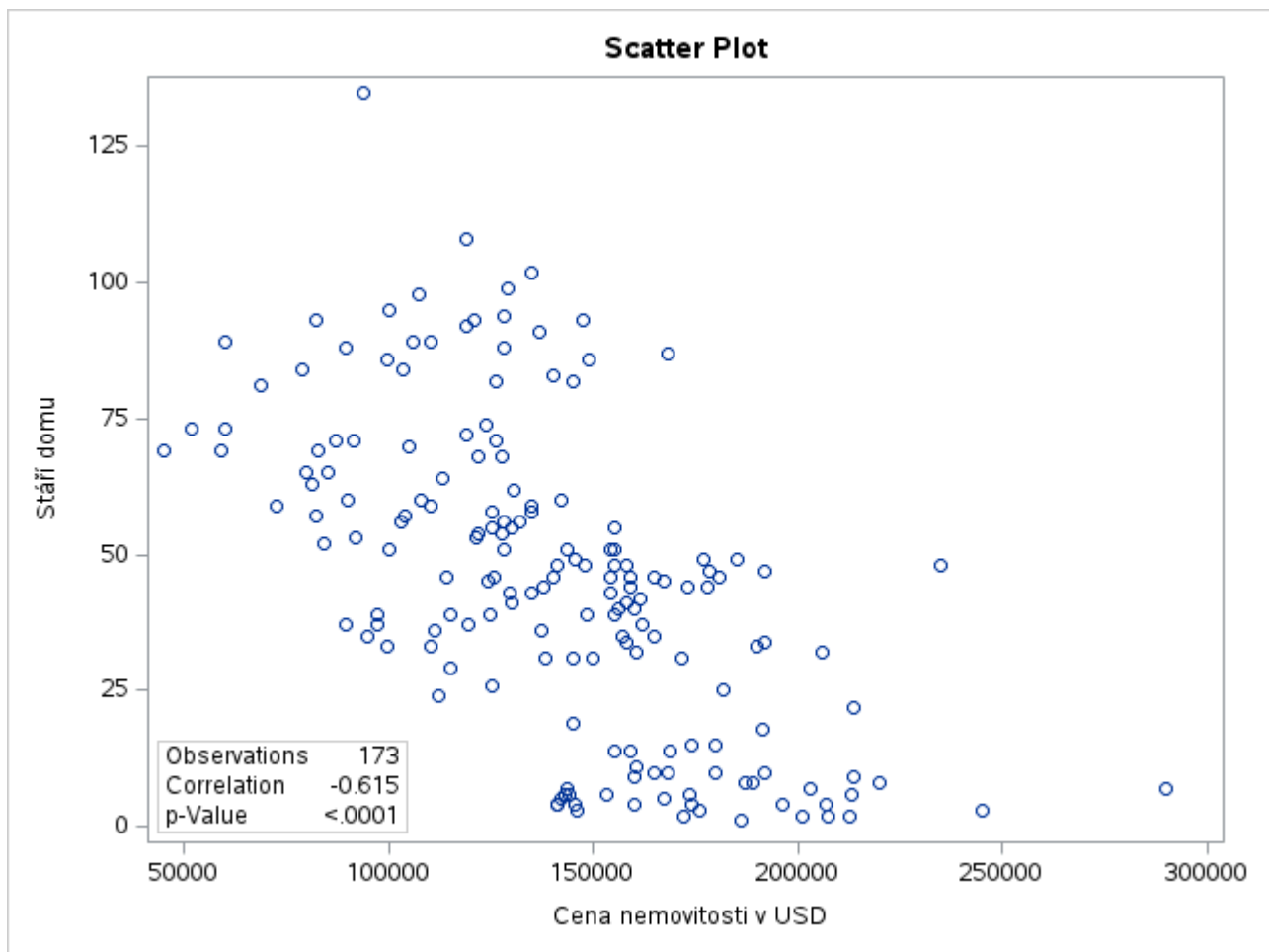
3 Variables: SalePrice Age\_Sold Garage\_Area

Pearson Correlation Coefficients, N = 173 Prob >  r  under H0: Rho=0			
<b>SalePrice</b> Cena nemovitosti v USD	SalePrice 1.00000	Age_Sold -0.61513 <.0001	Garage_Area 0.58518 <.0001
<b>Age_Sold</b> Stáří domu	Age_Sold 1.00000	SalePrice -0.61513 <.0001	Garage_Area -0.46235 <.0001
<b>Garage_Area</b> Plocha garáží	Garage_Area 1.00000	SalePrice 0.58518 <.0001	Age_Sold -0.46235 <.0001

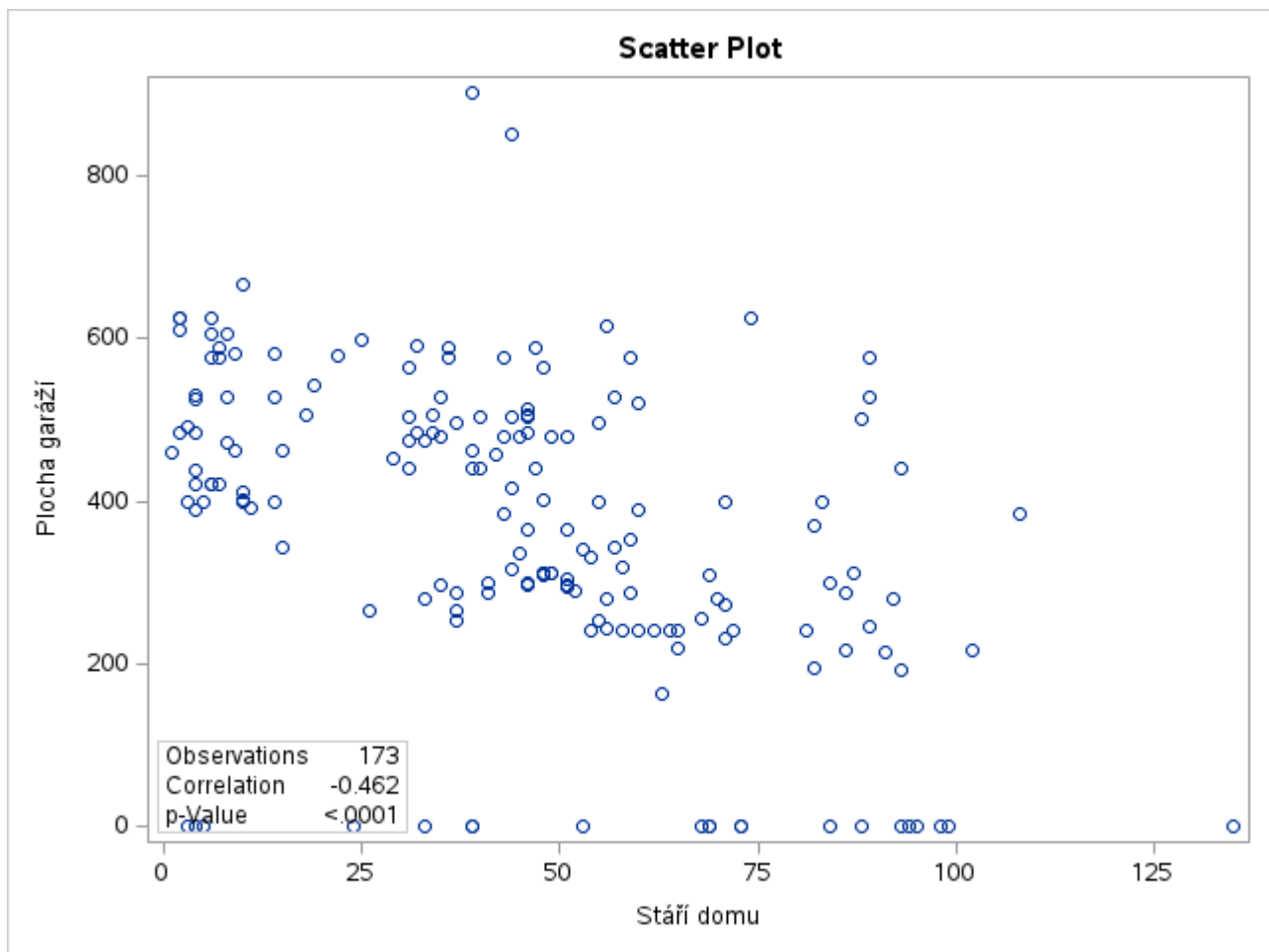
### Correlations and Scatter Plots with SalePrice

The CORR Procedure









### Model with Garage\_Area and Age\_Sold

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice Cena nemovitosti v USD

Number of Observations Read	173
Number of Observations Used	173

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.348126E11	67406294854	82.80	<.0001
Error	170	1.383935E11	814079671		
Corrected Total	172	2.732061E11			

Root MSE	28532	R-Square	0.4934
Dependent Mean	141000	Adj R-Sq	0.4875
Coeff Var	20.23548		

Parameter Estimates									
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Standardized Estimate	95% Confidence Limits	
Intercept	Intercept	1	138525	7786.97775	17.79	<.0001	0	123154	153897
Garage_Area	Plocha garáží	1	81.87204	13.17524	6.21	<.0001	0.38255	55.86389	107.88019
Age_Sold	Stáří domu	1	-614.37380	86.30111	-7.12	<.0001	-0.43826	-784.73364	-444.01397



**Model with Garage\_Area and Age\_Sold**

The REG Procedure

Model: MODEL1

Dependent Variable: SalePrice Cena nemovitosti v USD

