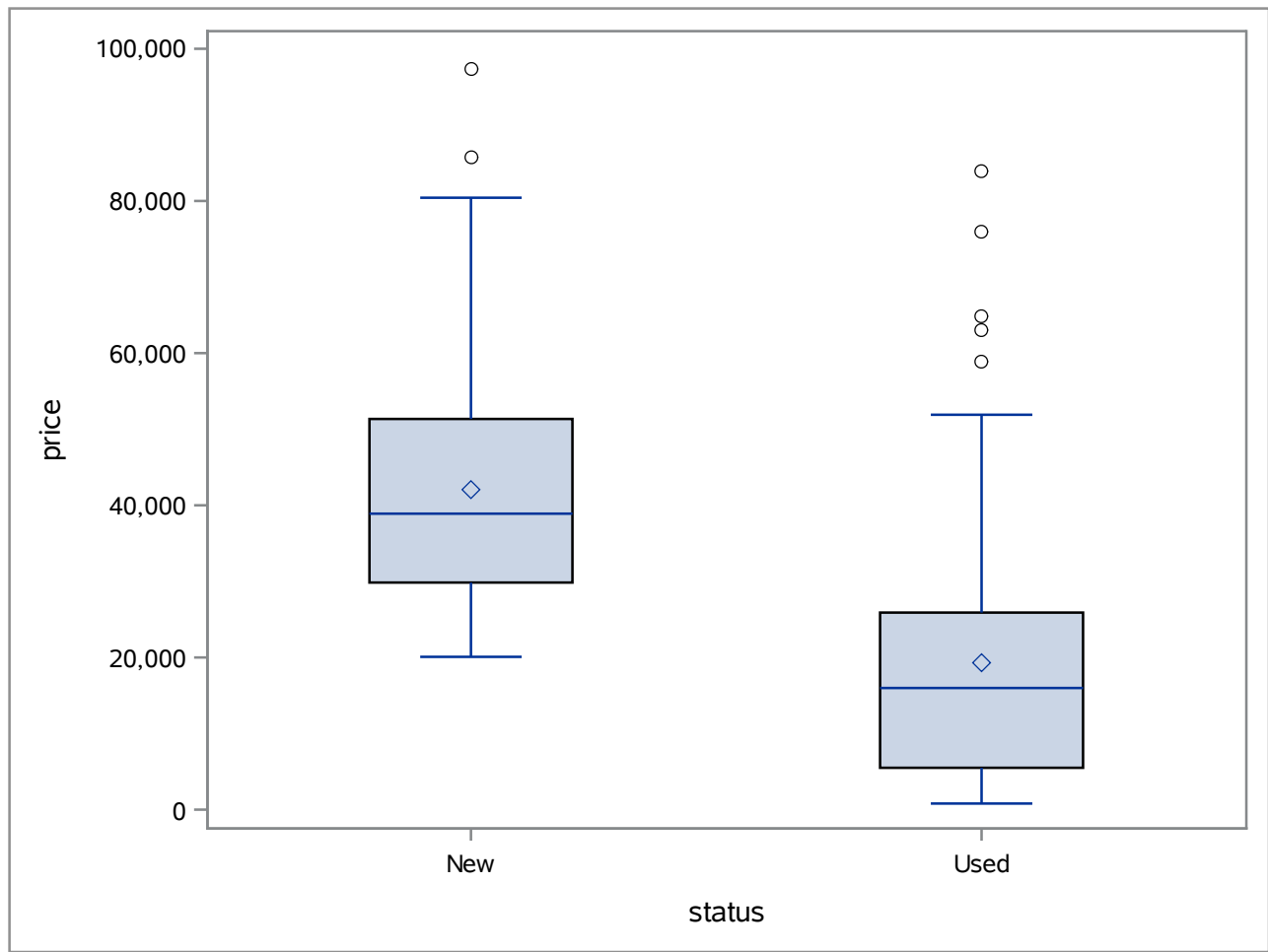


Table 1

Obs	location	make	model	km	status	bodytype
1	Toronto	Infiniti	q60 sport tech	56,863	Used	Coupe
2	York Region	Chevrolet	Silverado	20,886	Used	Truck
3	York Region	Honda	Civic	60	New	Sedan
4	York Region	Chevrolet	Colorado	26,095	Used	Truck
5	York Region	Mazda	MAZDA3	49,193	Used	Hatchback
6	York Region	Mercedes-Benz	C-Class	15,959	Used	Sedan
7	York Region	Toyota	Scion TC	34,686	Used	Hatchback
8	York Region	Cadillac	ATS	61,500	Used	Sedan
9	Peel Region	Mercedes-Benz	GL-Class	140,567	Used	SUV
10	York Region	Nissan	Murano	241,017	Used	SUV

Obs	transmission	year	cylinders	colour	carproof	fuel	price
1	Automatic	2015	6	black	yes	Regular Unleaded	35,900
2	Automatic	2015	6	silver	yes	Flex Fuel Capability	26,883
3	Automatic	2017	4	grey	n/a	Regular Unleaded	29,177
4	Automatic	2016	4	white	yes	Regular Unleaded	25,888
5	Automatic	2015	4	white	yes	Regular Unleaded	15,985
6	Manual	2015	4	grey	yes	Regular Unleaded	37,998
7	Automatic	2014	4	red	yes	Regular Unleaded	17,588
8	Automatic	2014	4	grey	no	Regular Unleaded	19,880
9	Automatic	2011	6	black	yes	Diesel Fuel	27,495
10	Automatic	2003	6	other	no	Regular Unleaded	2,800



The ANOVA Procedure

Class Level Information		
Class	Levels	Values
status	2	New Used

Number of Observations Read	200
Number of Observations Used	200

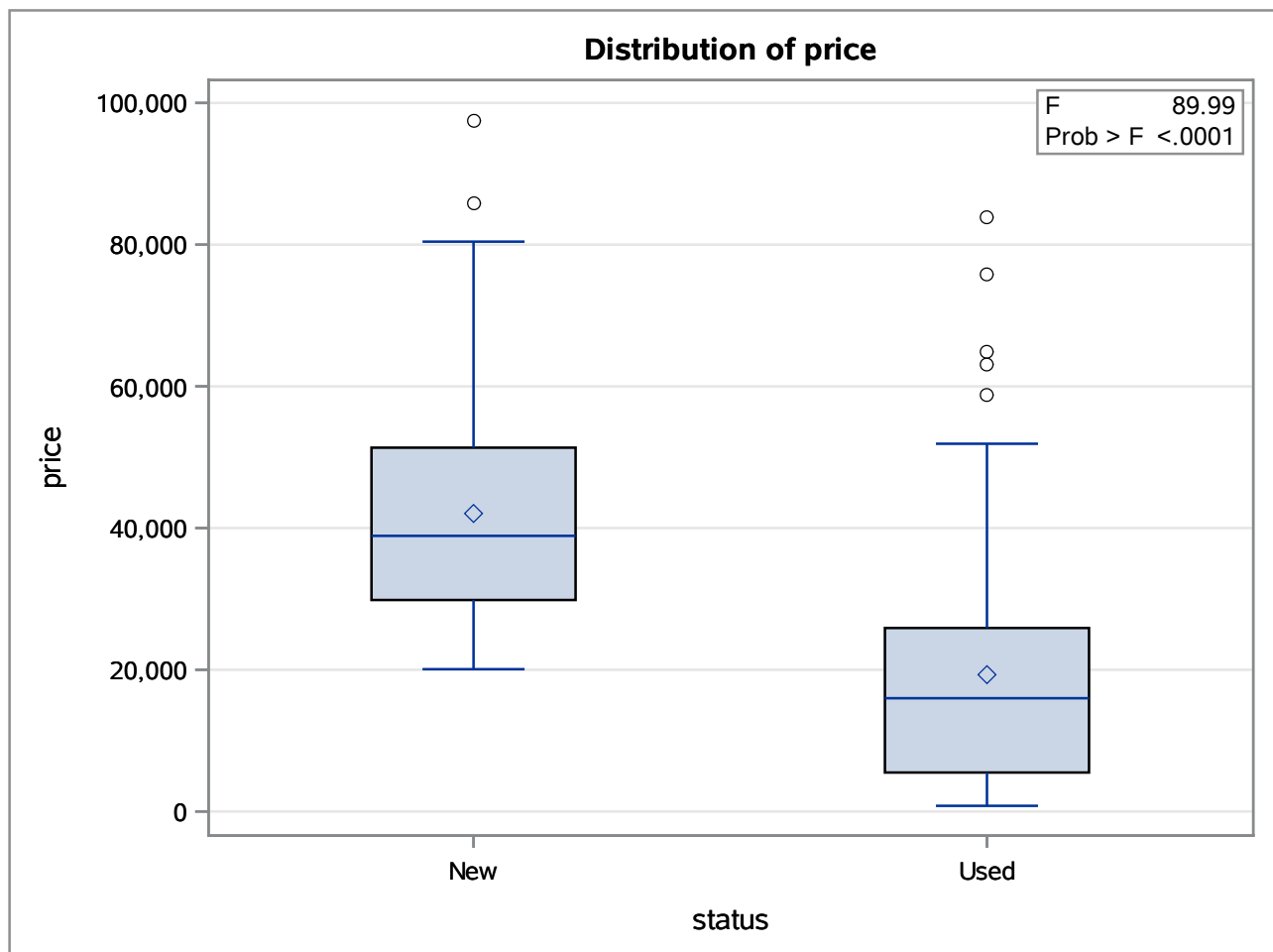
## The ANOVA Procedure

**Dependent Variable: price price**

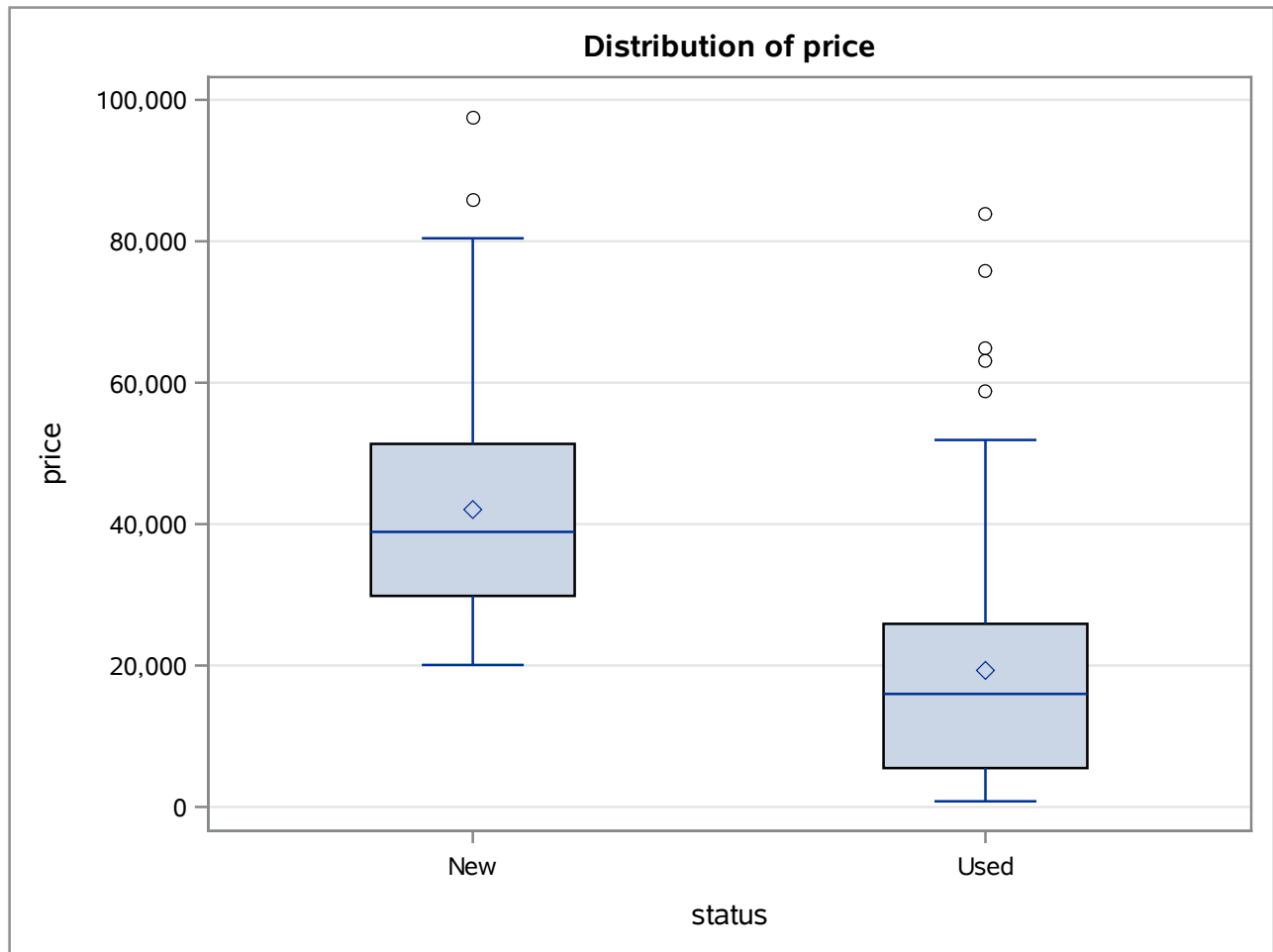
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	25129722120	25129722120	89.99	<.0001
Error	198	55288833426	279236532		
Corrected Total	199	80418555547			

R-Square	Coeff Var	Root MSE	price Mean
0.312487	58.12176	16710.37	28750.63

Source	DF	Anova SS	Mean Square	F Value	Pr > F
status	1	25129722120	25129722120	89.99	<.0001



### The ANOVA Procedure



## The ANOVA Procedure

### Tukey's Studentized Range (HSD) Test for price

**Note:** This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	198
Error Mean Square	2.7924E8
Critical Value of Studentized Range	2.78885
Minimum Significant Difference	4729.1
Harmonic Mean of Cell Sizes	97.11

**Note:** Cell sizes are not equal.

Means with the same letter are not significantly different.			
Tukey Grouping	Mean	N	status
A	42059	83	New
B	19309	117	Used

Obs	location	make	model	km	status	bodytype
1	Toronto	Infiniti	q60 sport tech	56,863	Used	Coupe
2	York Region	Chevrolet	Silverado	20,886	Used	Truck
3	York Region	Chevrolet	Colorado	26,095	Used	Truck
4	York Region	Mazda	MAZDA3	49,193	Used	Hatchback
5	York Region	Mercedes-Benz	C-Class	15,959	Used	Sedan
6	York Region	Toyota	Scion TC	34,686	Used	Hatchback
7	York Region	Cadillac	ATS	61,500	Used	Sedan
8	Peel Region	Mercedes-Benz	GL-Class	140,567	Used	SUV
9	York Region	Nissan	Murano	241,017	Used	SUV
10	York Region	Mercedes-Benz	300 Series	188,300	Used	Sedan

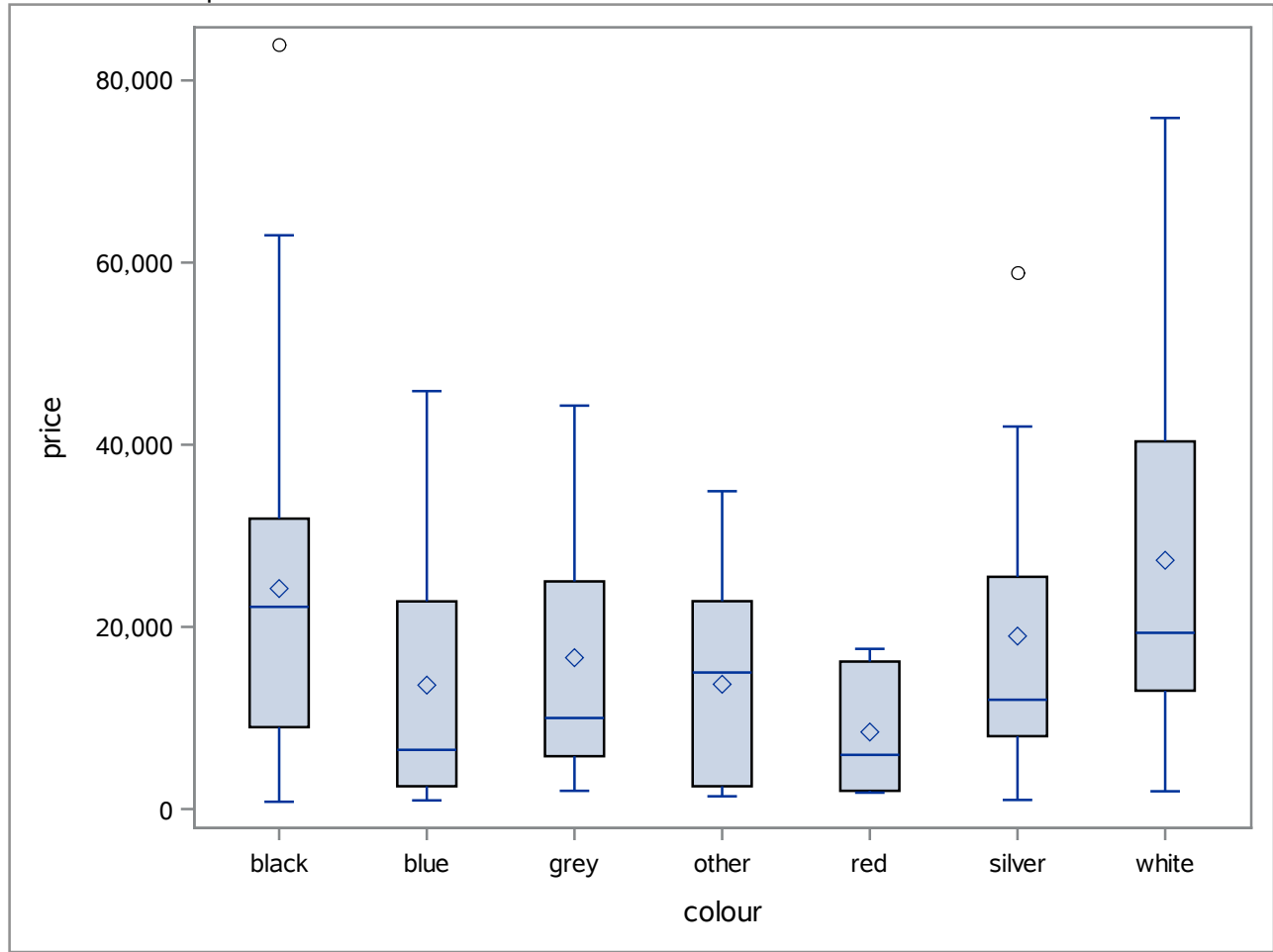
Obs	transmission	year	cylinders	colour	carproof	fuel	price
1	Automatic	2015	6	black	yes	Regular Unleaded	35,900
2	Automatic	2015	6	silver	yes	Flex Fuel Capability	26,883
3	Automatic	2016	4	white	yes	Regular Unleaded	25,888
4	Automatic	2015	4	white	yes	Regular Unleaded	15,985
5	Manual	2015	4	grey	yes	Regular Unleaded	37,998
6	Automatic	2014	4	red	yes	Regular Unleaded	17,588
7	Automatic	2014	4	grey	no	Regular Unleaded	19,880
8	Automatic	2011	6	black	yes	Diesel Fuel	27,495
9	Automatic	2003	6	other	no	Regular Unleaded	2,800
10	Automatic	1986	6	other	no	Regular Unleaded	4,000

Table 3

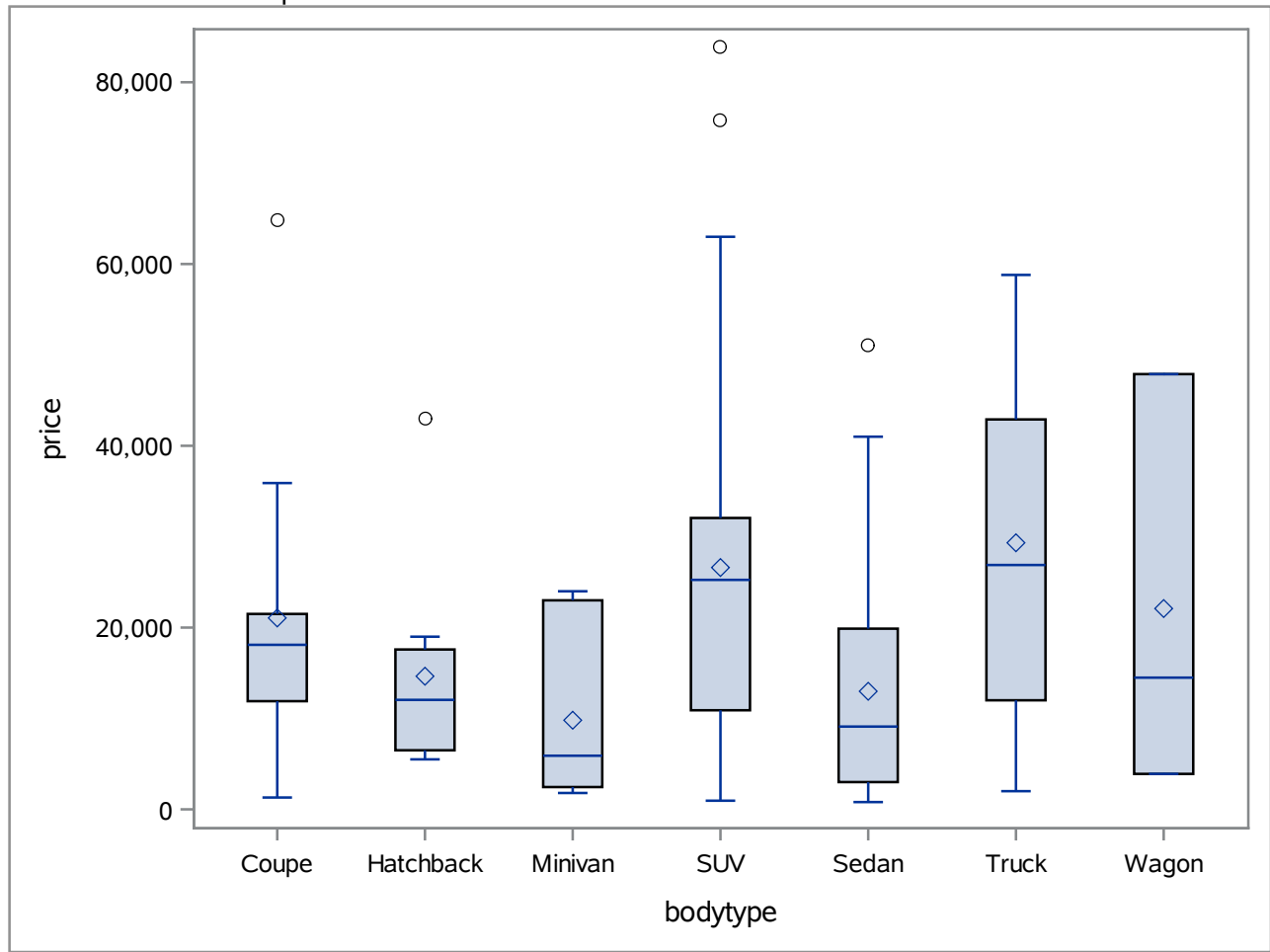
Obs	location	make	model	km	status	bodytype	transmission	year	cylinders	colour	carproof	fuel	price
1	York Region	Honda	Civic	60	New	Sedan	Automatic	2017	4	grey	n/a	Regular Unleaded	29,177
2	York Region	Nissan	Armada	10	New	SUV	Automatic	2017	8	black	n/a	Regular Unleaded	58,448
3	York Region	Honda	Civic	50	New	Sedan	Automatic	2017	4	grey	n/a	Regular Unleaded	25,577
4	Toronto	Hyundai	Tucson	0	New	SUV	Automatic	2017	4	black	n/a	Regular Unleaded	30,259
5	North York	Ram	1500	4	New	Truck	Automatic	2017	8	red	n/a	Regular Unleaded	33,598
6	Peel Region	Jeep	Wrangler	10	New	SUV	Automatic	2017	6	other	n/a	Regular Unleaded	50,550
7	Toronto	Chevrolet	Corvette	25	New	Coupe	Automatic	2017	8	black	n/a	Regular Unleaded	97,411
8	York Region	Ford	Mustang	250	New	Coupe	Manual	2017	8	white	n/a	Premium Unleaded	69,888
9	Toronto	Toyota	Corolla	0	New	Sedan	CVT	2017	4	black	n/a	Regular Unleaded	20,705
10	Toronto	Ram	1500	0	New	Truck	Automatic	2017	8	grey	n/a	Regular Unleaded	52,510



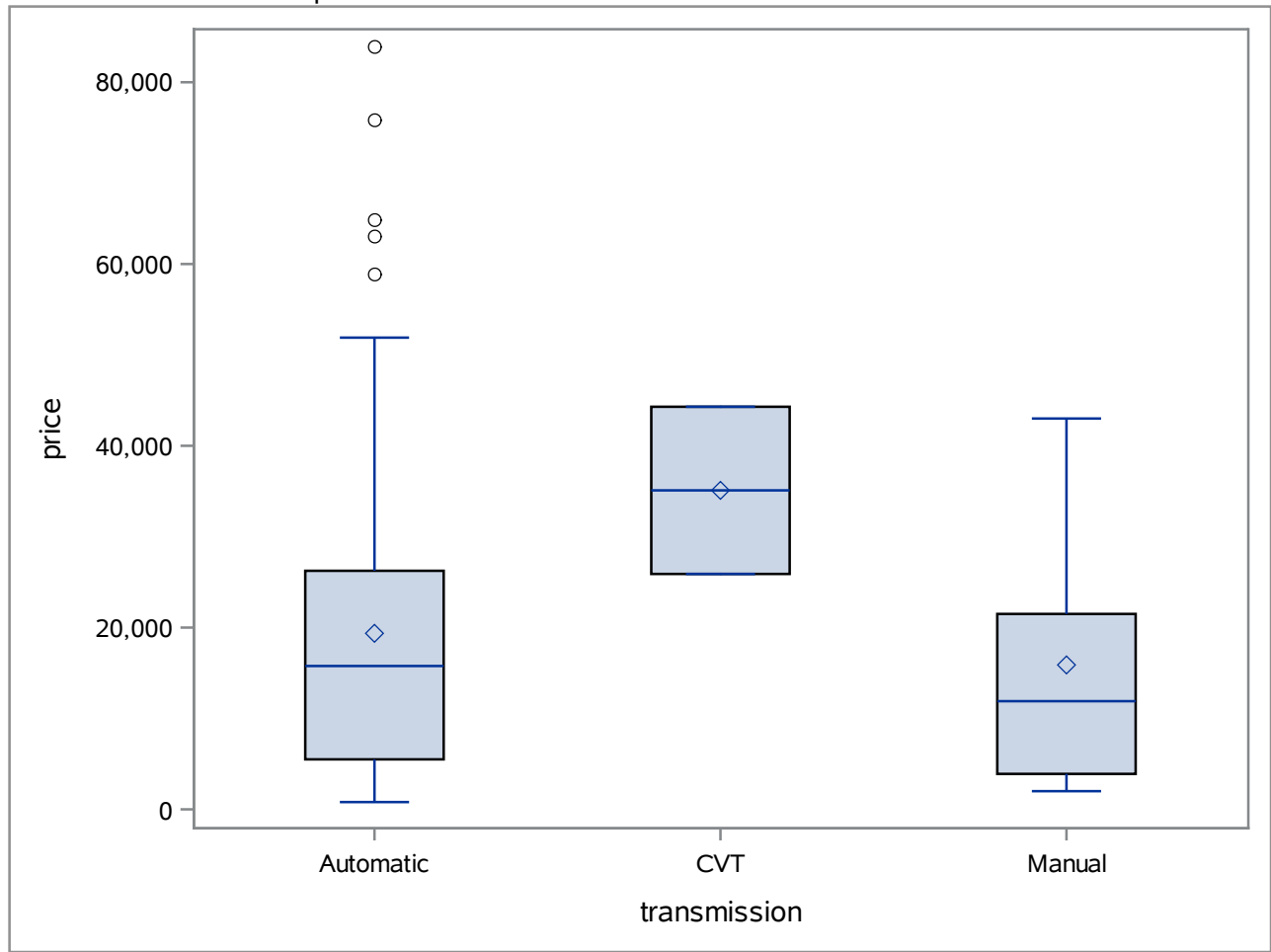
Boxplot 2



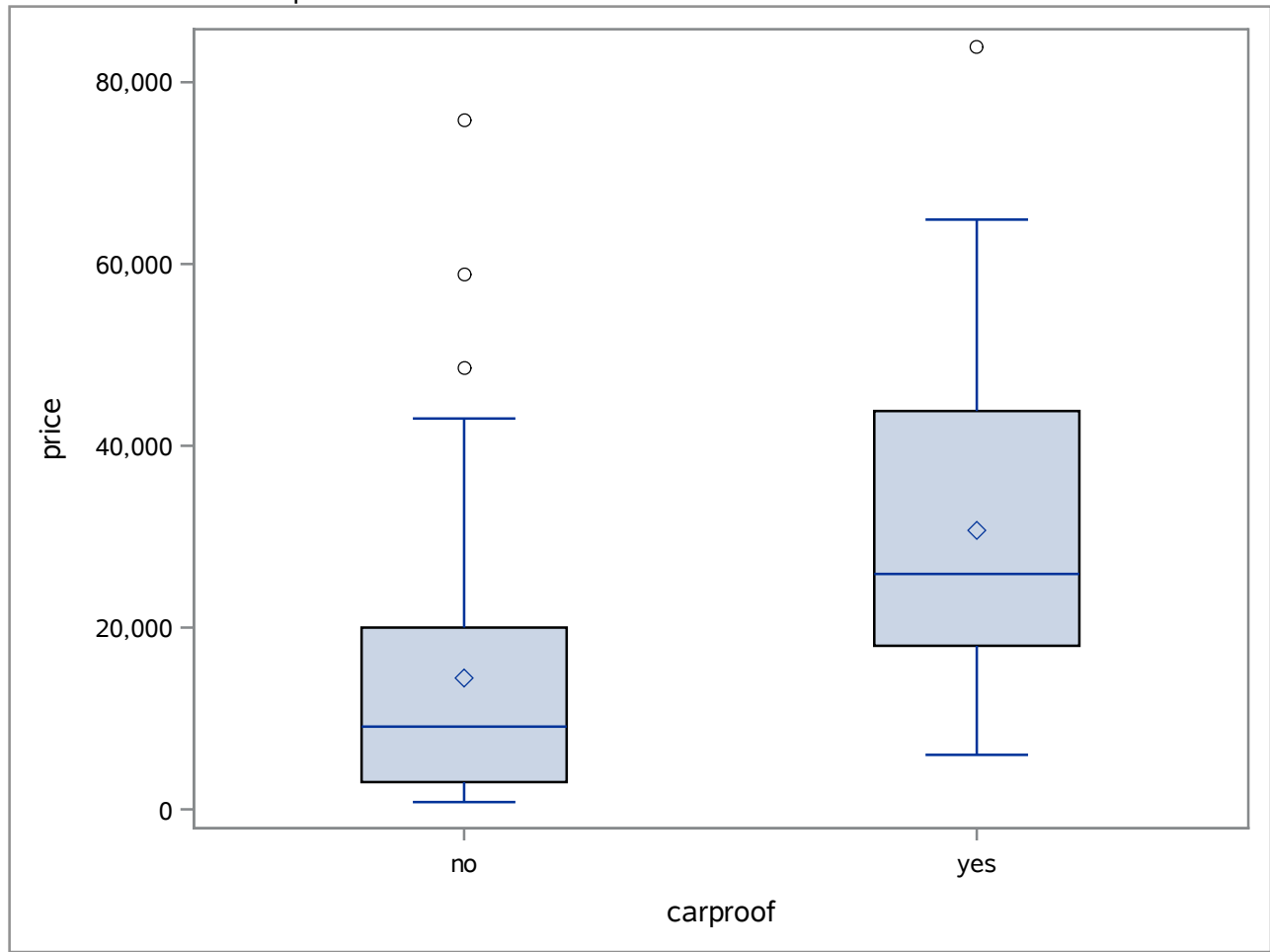
Boxplot 3



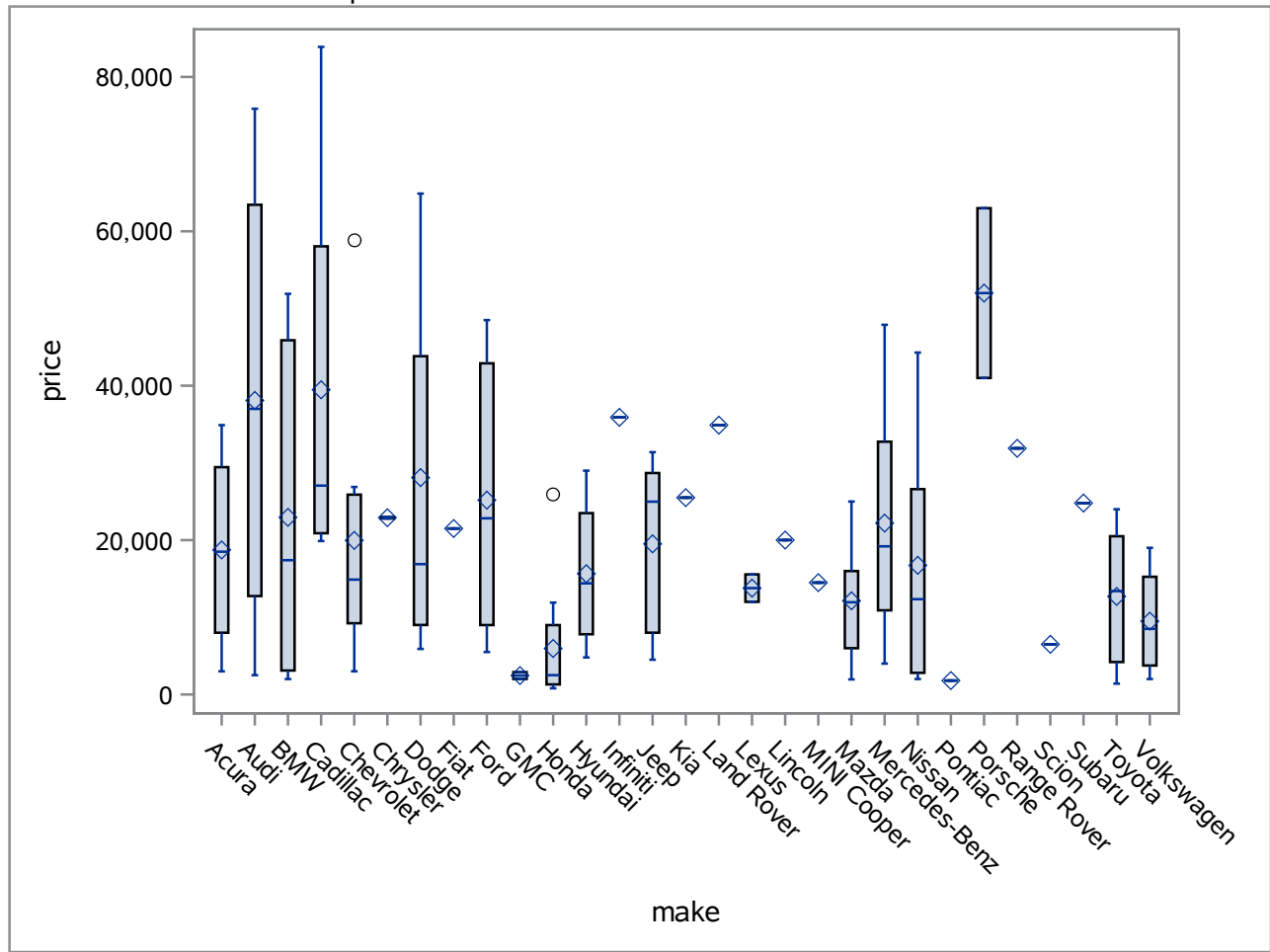
Boxplot 4



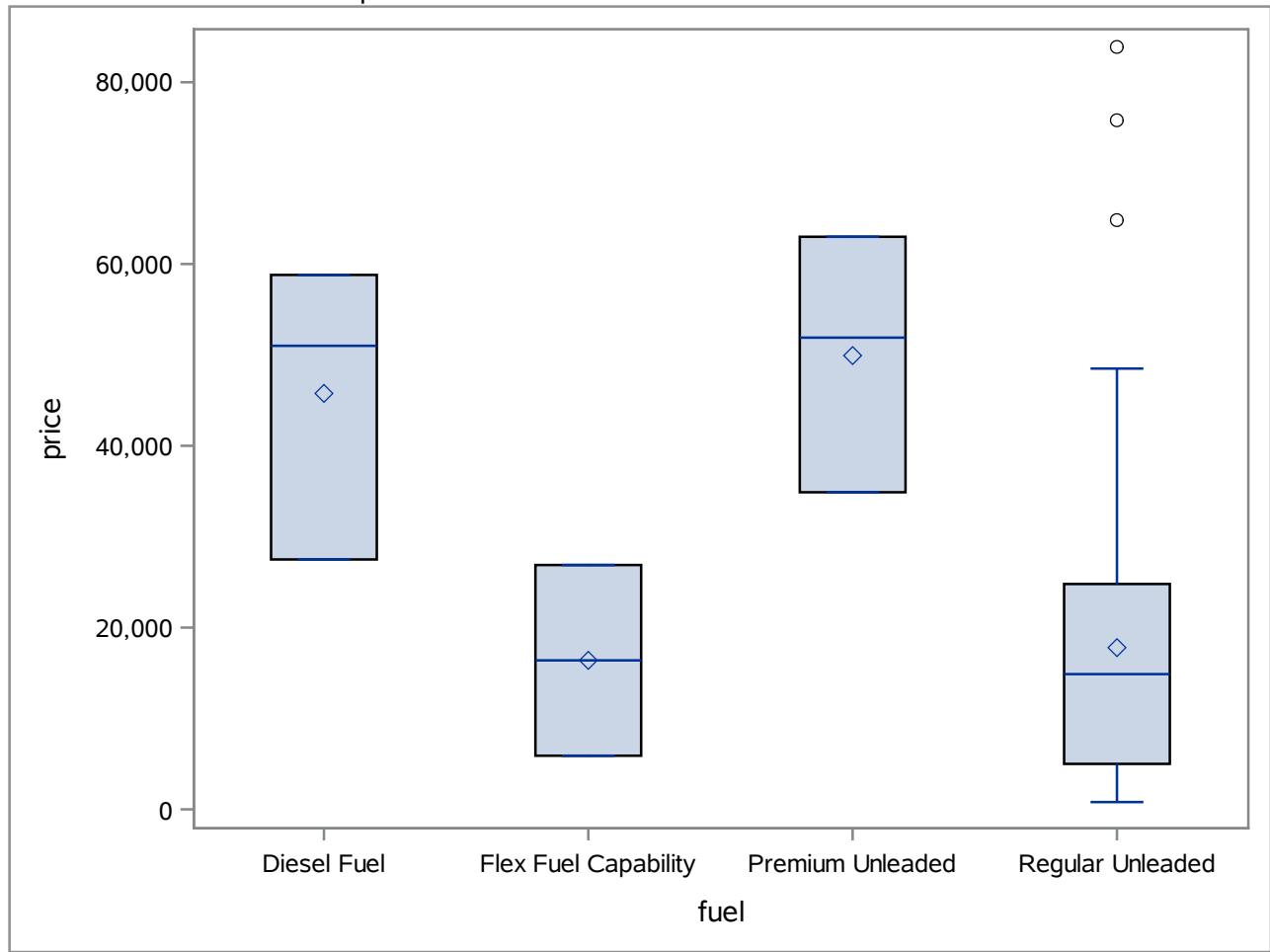
Boxplot 5



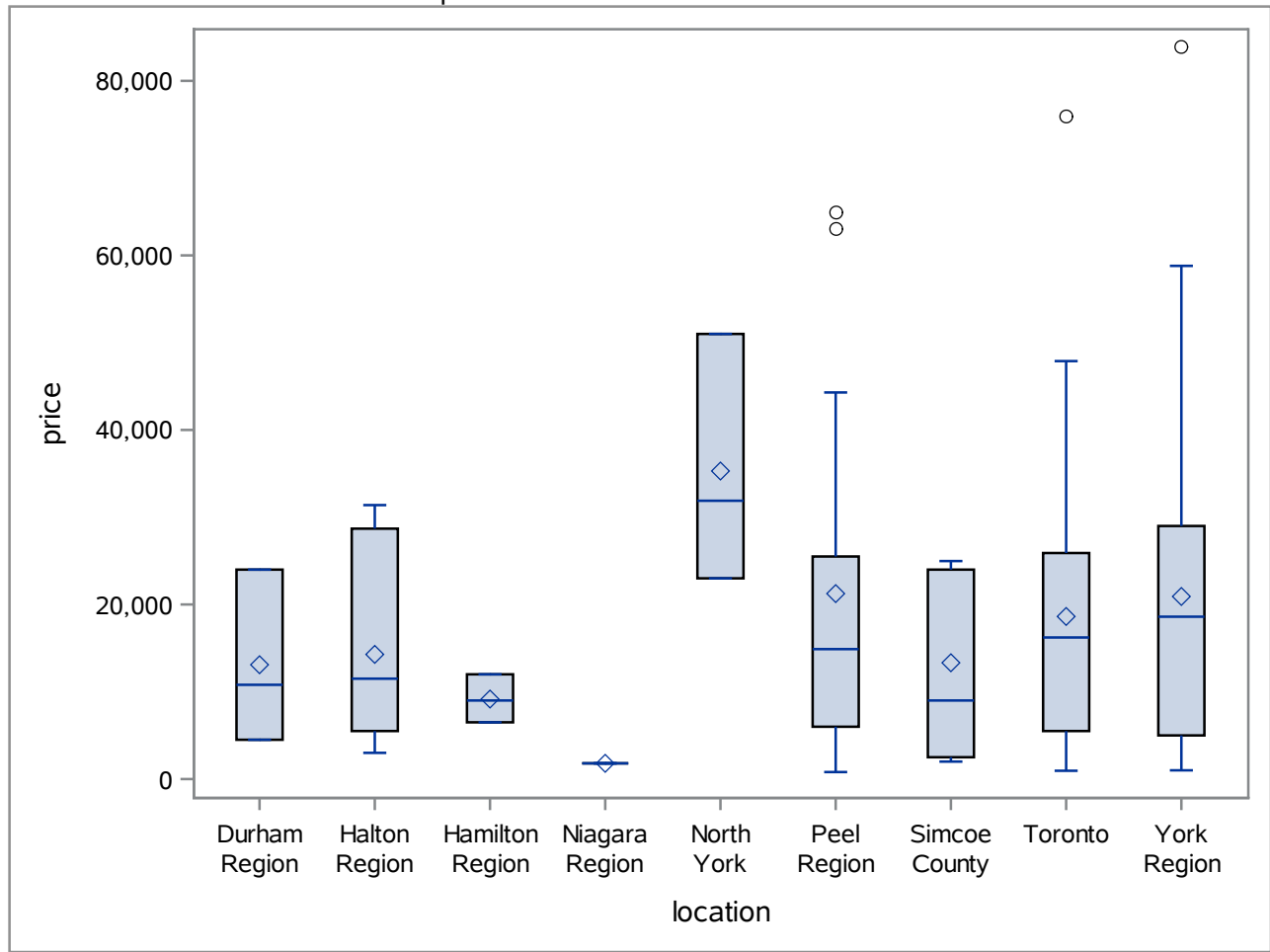
Boxplot 6



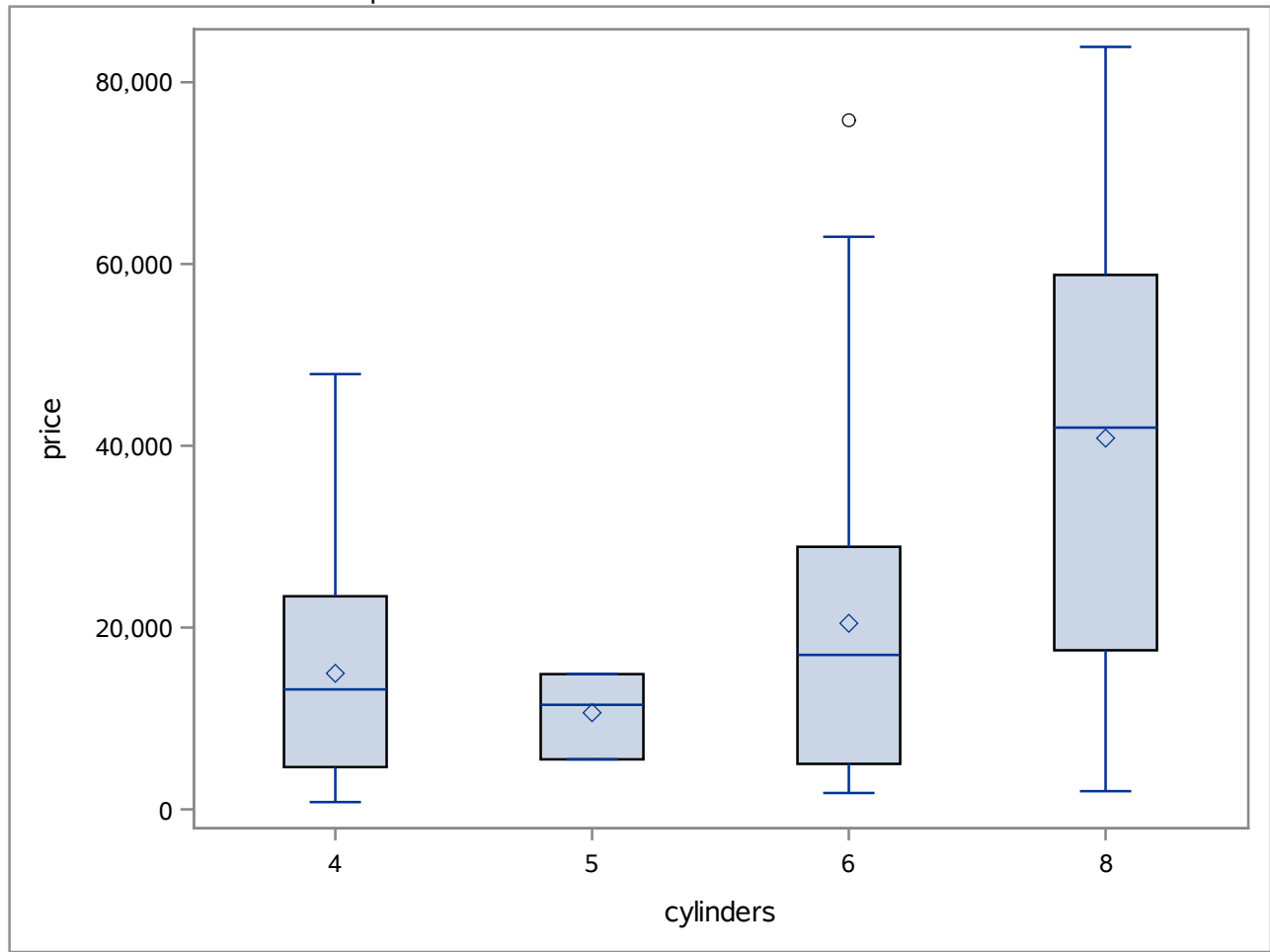
Boxplot 7



Boxplot 8

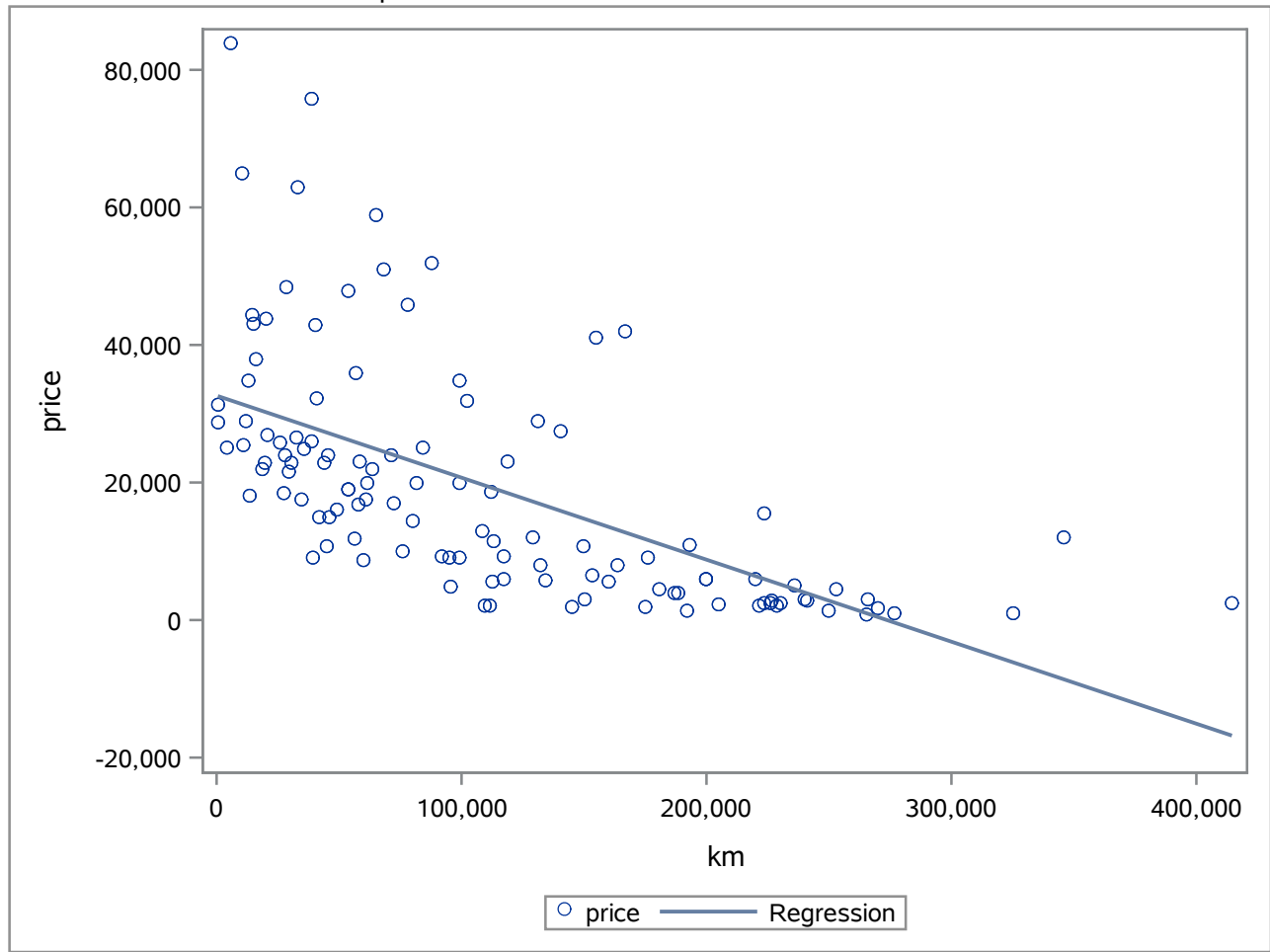


Boxplot 9





Scatterplot 1



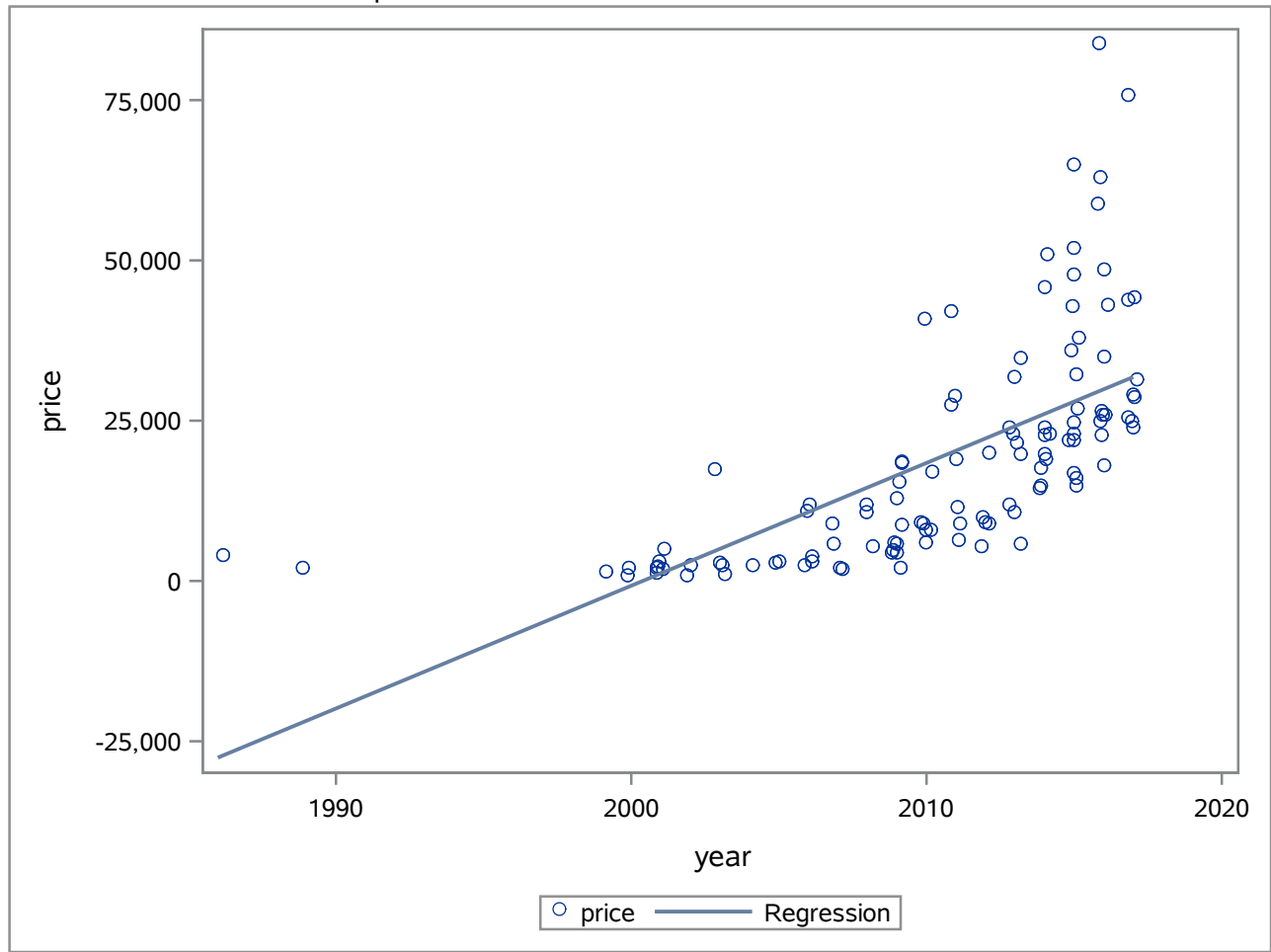
CORR 1

**The CORR Procedure**

<b>2 Variables:</b>	km	price
---------------------	----	-------

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
km	117	111683	87415	13066914	500.00000	414500	km
price	117	19309	17133	2259209	800.00000	83888	price

Pearson Correlation Coefficients, N = 117 Prob >  r  under H0: Rho=0		
	km	price
km	1.00000	-0.60845
km		<.0001
price	-0.60845	1.00000
price	<.0001	



## CORR 2

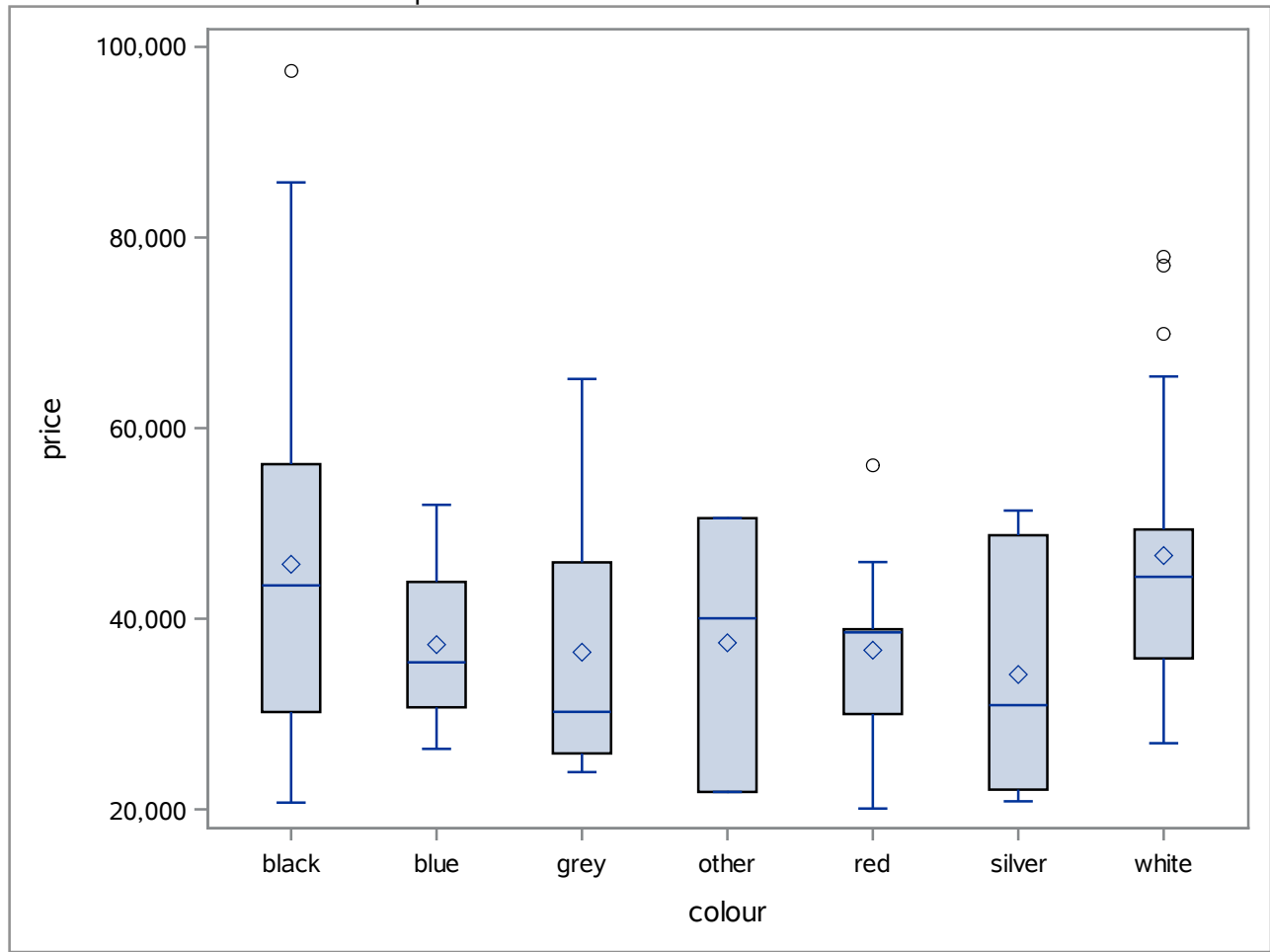
## The CORR Procedure

<b>2 Variables:</b>	year	price
---------------------	------	-------

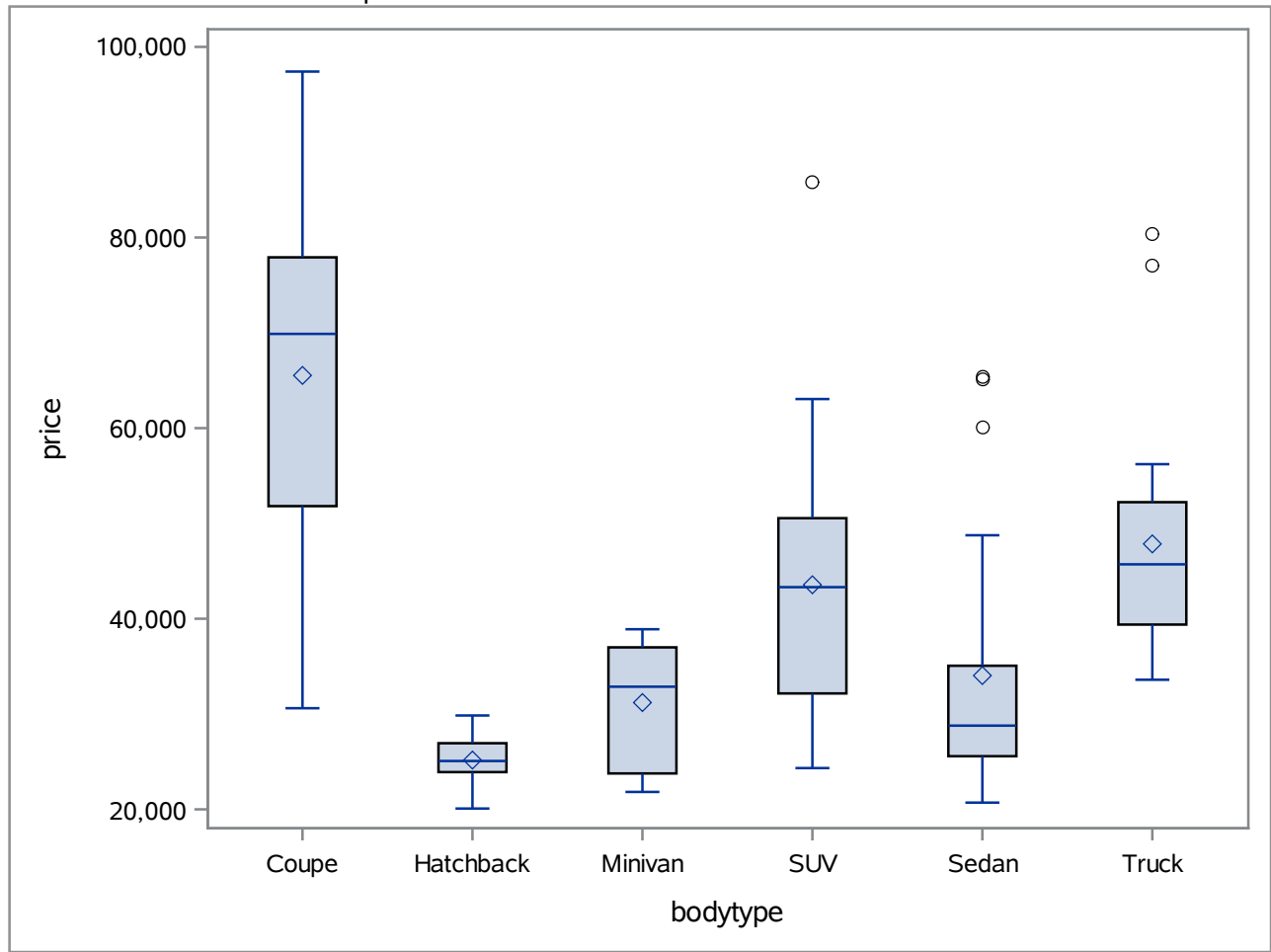
Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
<b>year</b>	117	2010	5.77087	235225	1986	2017	year
<b>price</b>	117	19309	17133	2259209	800.00000	83888	price

Pearson Correlation Coefficients, N = 117 Prob >  r  under H0: Rho=0		
	year	price
<b>year</b> year	1.00000	0.64494 <.0001
<b>price</b> price	0.64494 <.0001	1.00000

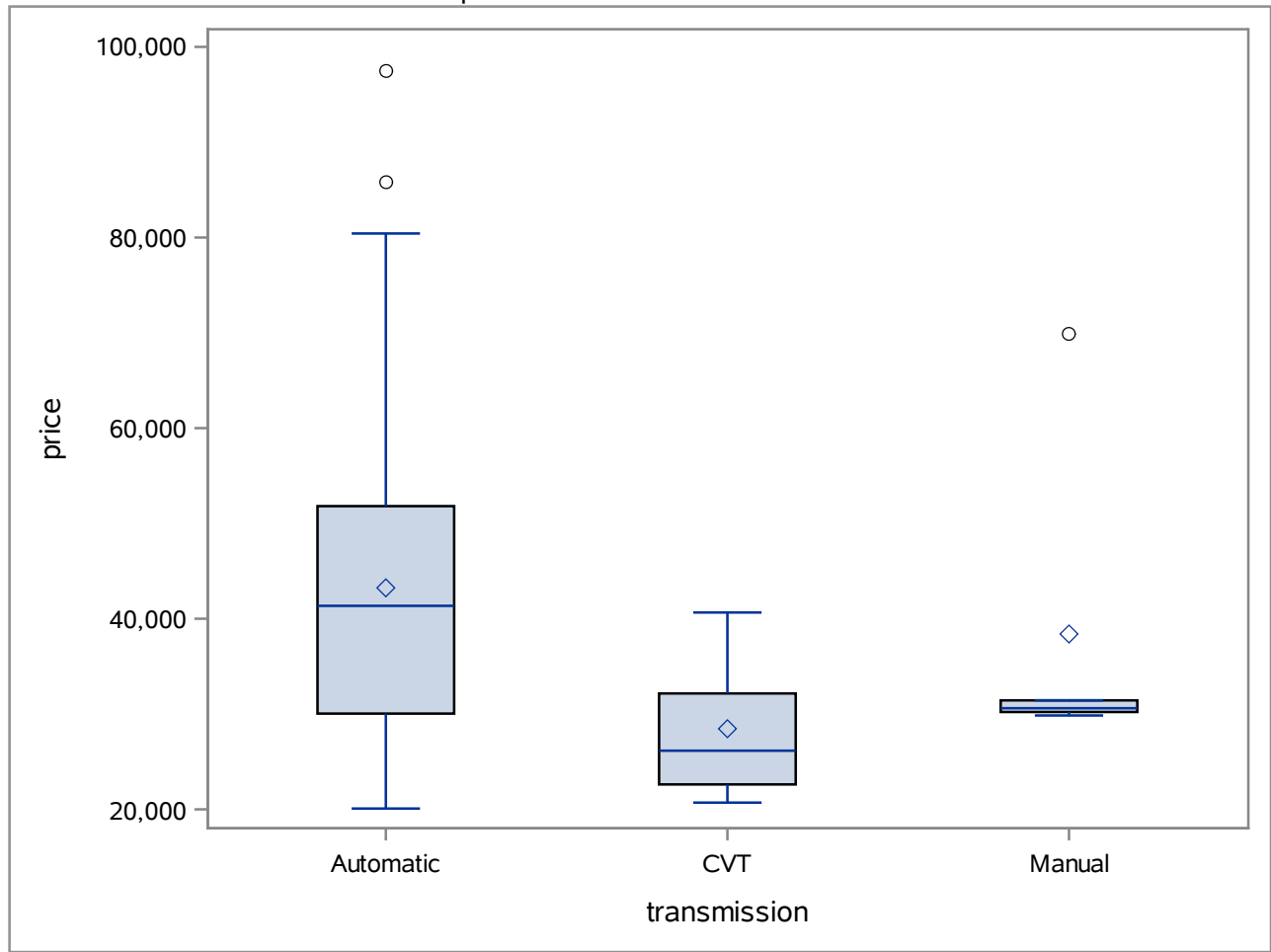
Boxplot 10



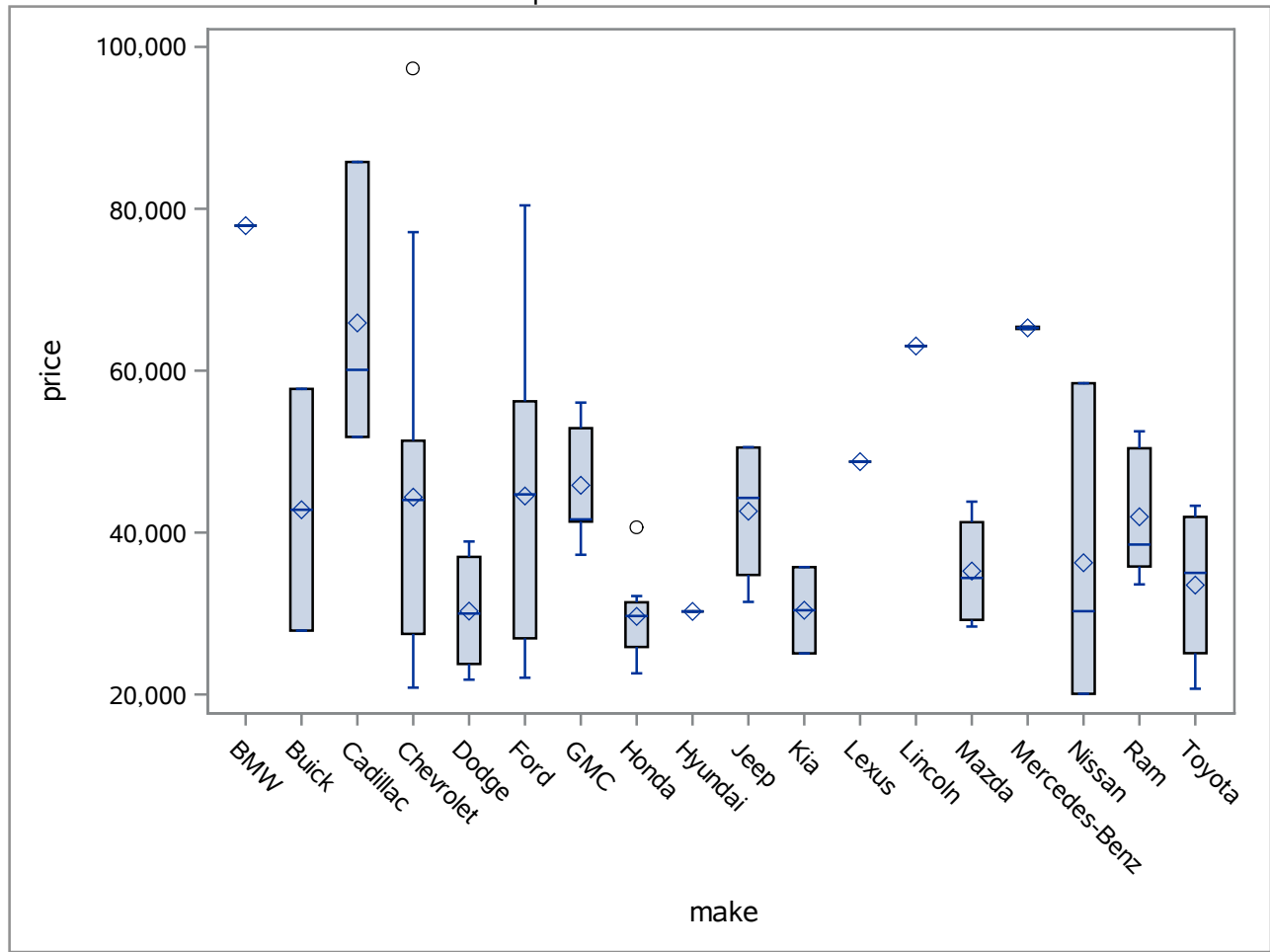
Boxplot 11



Boxplot 12

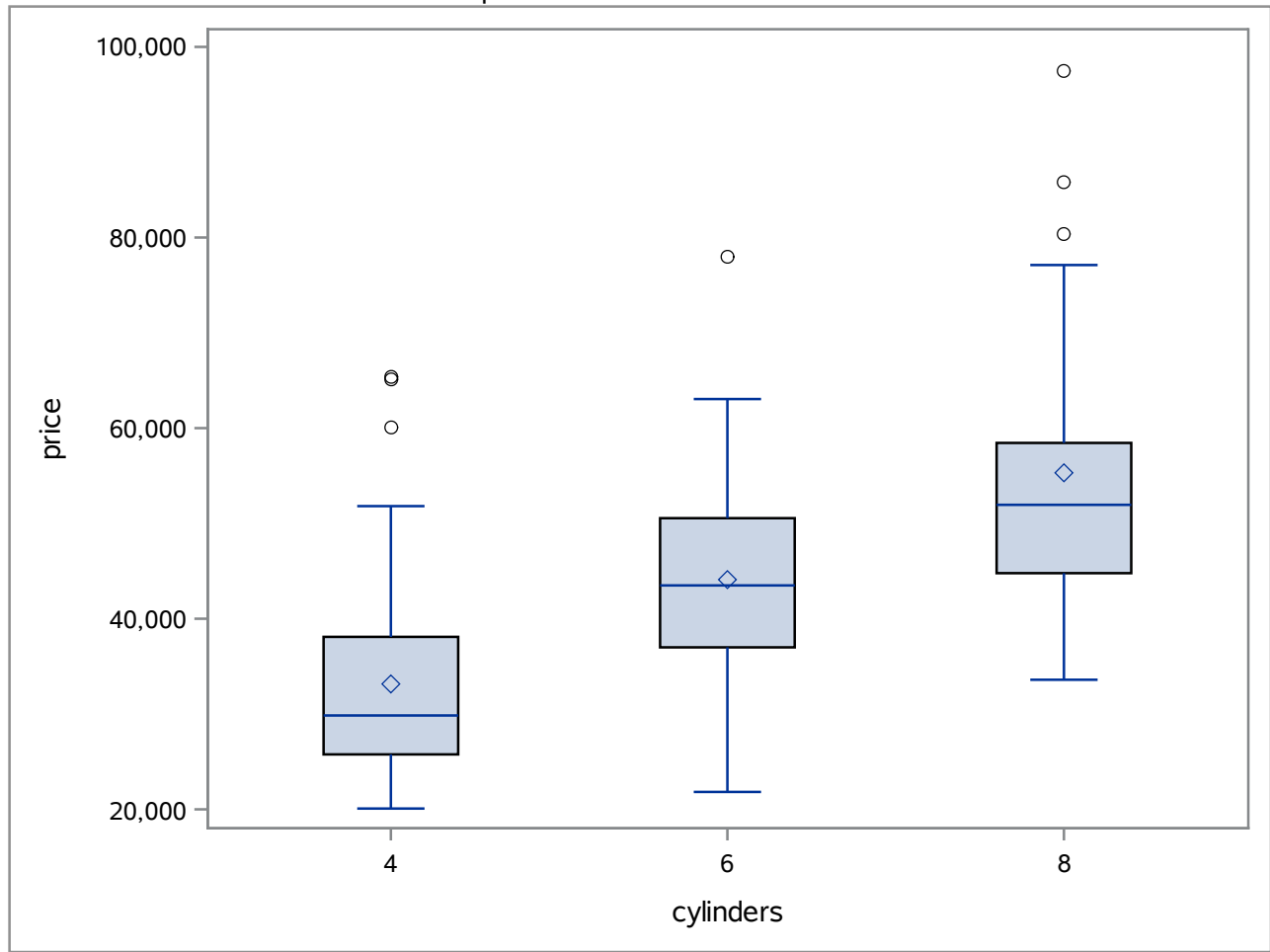


Boxplot 13

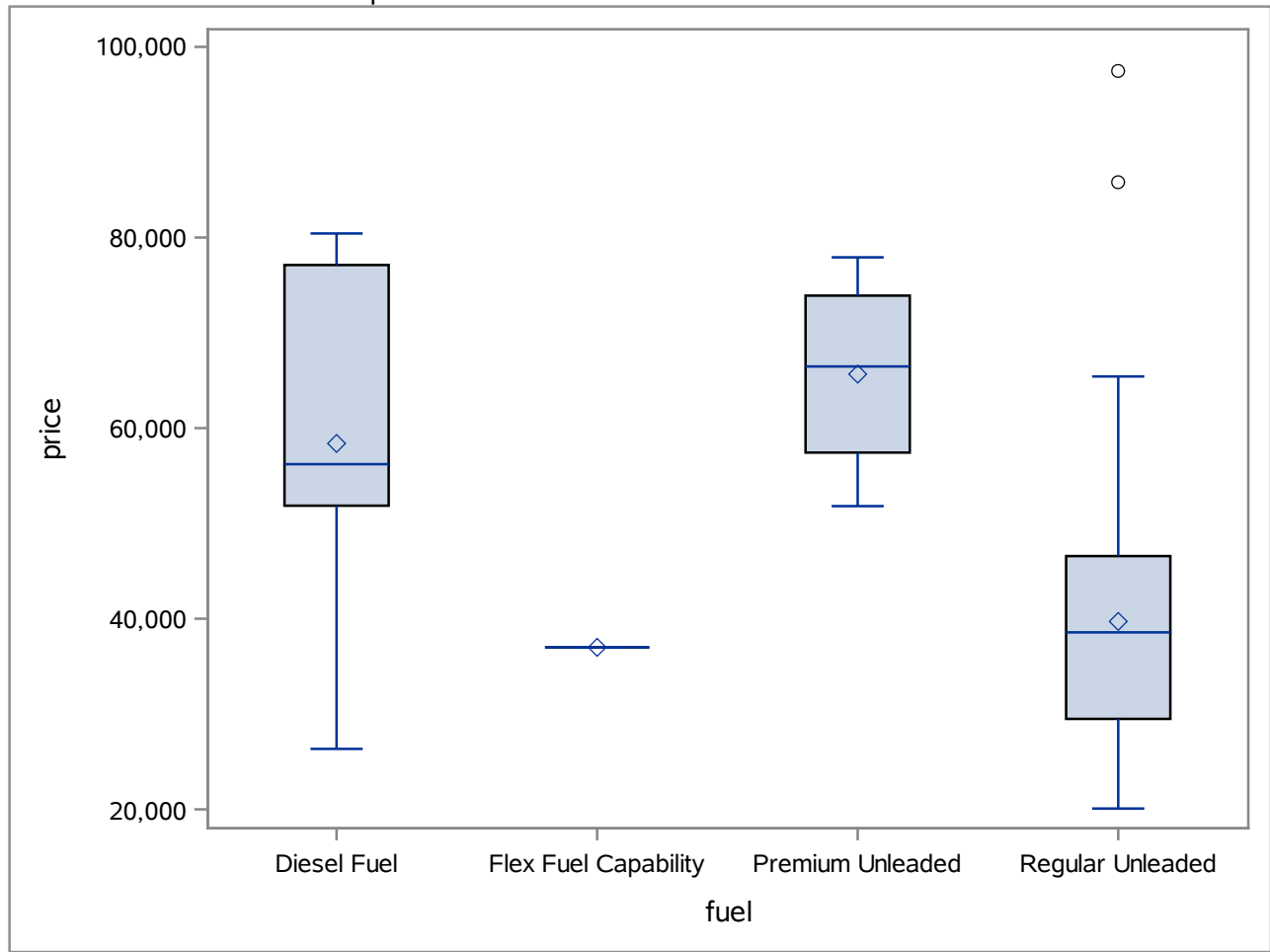




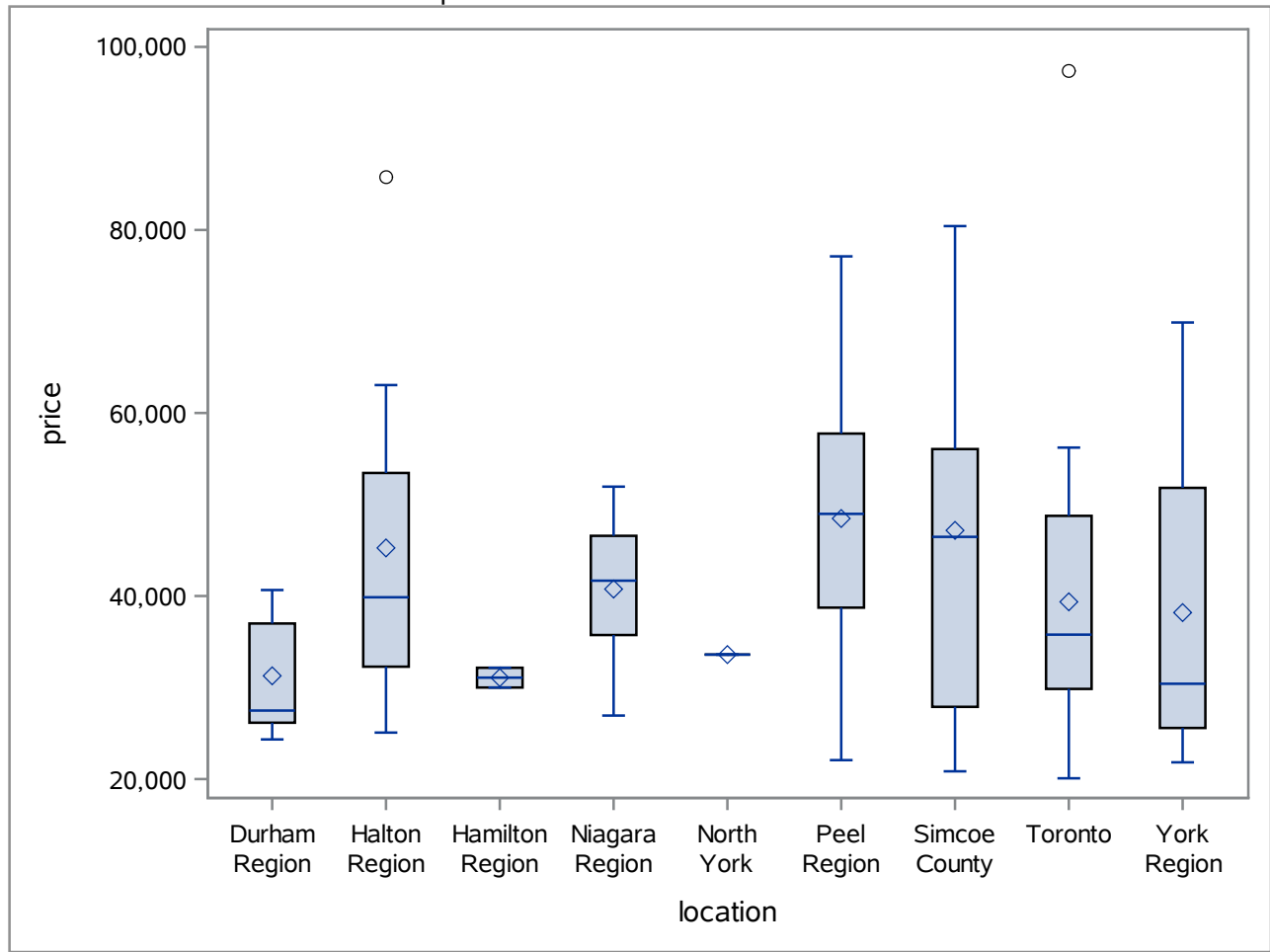
Boxplot 14



Boxplot 15



Boxplot 16



## GLM 1

## The GLM Procedure

Class Level Information		
Class	Levels	Values
transmission	3	Automatic CVT Manual
location	9	Durham Region Halton Region Hamilton Region Niagara Region North York Peel Region Simcoe County Toronto York Region
make	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
bodytype	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon
colour	7	black blue grey other red silver white
carproof	2	no yes
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	117
Number of Observations Used	117

## The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	56	28250089865	504465890	5.22	<.0001
Error	60	5798595670	96643261		
Corrected Total	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.829697	50.91142	9830.730	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
transmission	2	627379751	313689876	3.25	0.0459
location	8	2116096405	264512051	2.74	0.0121
make	27	11249282357	416640087	4.31	<.0001
bodytype	6	4077219790	679536632	7.03	<.0001
colour	6	701259526	116876588	1.21	0.3141
carproof	1	2593137398	2593137398	26.83	<.0001
fuel	3	930339325	310113108	3.21	0.0293
km	1	4051970899	4051970899	41.93	<.0001
year	1	597818161	597818161	6.19	0.0157
cylinders	1	1305586253	1305586253	13.51	0.0005

Source	DF	Type III SS	Mean Square	F Value	Pr > F
transmission	2	12718198	6359099	0.07	0.9364
location	7	126244309	18034901	0.19	0.9872
make	27	2935301258	108714861	1.12	0.3442
bodytype	6	832099758	138683293	1.44	0.2164
colour	6	153250428	25541738	0.26	0.9514
carproof	1	123156090	123156090	1.27	0.2634
fuel	3	283149479	94383160	0.98	0.4098
km	1	816287078	816287078	8.45	0.0051
year	1	667122395	667122395	6.90	0.0109
cylinders	1	1305586253	1305586253	13.51	0.0005

## GLM 1a

## The GLM Procedure

Class Level Information		
Class	Levels	Values
transmission	3	Automatic CVT Manual
make	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
bodytype	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon
colour	7	black blue grey other red silver white
carproof	2	no yes
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	117
Number of Observations Used	117

## The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	49	28123845556	573956032	6.49	<.0001
Error	67	5924839979	88430447		
Corrected Total	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.825989	48.70016	9403.746	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
transmission	2	627379751	313689876	3.55	0.0343
make	28	12638498303	451374939	5.10	<.0001
bodytype	6	4074480873	679080145	7.68	<.0001
colour	6	814643996	135773999	1.54	0.1802
carproof	1	2810550195	2810550195	31.78	<.0001
fuel	3	818237348	272745783	3.08	0.0331
km	1	4296373642	4296373642	48.58	<.0001
year	1	626713918	626713918	7.09	0.0097
cylinders	1	1416967531	1416967531	16.02	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
transmission	2	24752322	12376161	0.14	0.8697
make	28	3166234721	113079811	1.28	0.2049
bodytype	6	833906425	138984404	1.57	0.1691
colour	6	140211414	23368569	0.26	0.9516
carproof	1	130566495	130566495	1.48	0.2286
fuel	3	337275278	112425093	1.27	0.2913
km	1	961216095	961216095	10.87	0.0016
year	1	682044089	682044089	7.71	0.0071
cylinders	1	1416967531	1416967531	16.02	0.0002

## GLM 1b

## The GLM Procedure

Class Level Information		
Class	Levels	Values
transmission	3	Automatic CVT Manual
make	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
bodytype	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon
carproof	2	no yes
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	117
Number of Observations Used	117



# The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	43	27983634142	650782189	7.83	<.0001
Error	73	6065051393	83082896		
Corrected Total	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.821871	47.20470	9114.982	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
transmission	2	627379751	313689876	3.78	0.0275
make	28	12638498303	451374939	5.43	<.0001
bodytype	6	4074480873	679080145	8.17	<.0001
carproof	1	2904440273	2904440273	34.96	<.0001
fuel	3	898461106	299487035	3.60	0.0173
km	1	4636107054	4636107054	55.80	<.0001
year	1	755007557	755007557	9.09	0.0035
cylinders	1	1449259225	1449259225	17.44	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
transmission	2	32629287	16314643	0.20	0.8221
make	28	3684873788	131602635	1.58	0.0609
bodytype	6	1053440236	175573373	2.11	0.0619
carproof	1	90541328	90541328	1.09	0.3000
fuel	3	374796437	124932146	1.50	0.2207
km	1	1024651602	1024651602	12.33	0.0008
year	1	882594049	882594049	10.62	0.0017
cylinders	1	1449259225	1449259225	17.44	<.0001

## GLM 1c

## The GLM Procedure

Class Level Information		
Class	Levels	Values
<b>make</b>	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
<b>bodytype</b>	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon
<b>carproof</b>	2	no yes
<b>fuel</b>	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117

# The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	41	27951004855	681731826	8.39	<.0001
Error	75	6097680680	81302409		
Corrected Total	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.820913	46.69616	9016.785	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
make	28	11801682745	421488669	5.18	<.0001
bodytype	6	4759262458	793210410	9.76	<.0001
carproof	1	3172089563	3172089563	39.02	<.0001
fuel	3	874814444	291604815	3.59	0.0176
km	1	5018279620	5018279620	61.72	<.0001
year	1	816130649	816130649	10.04	0.0022
cylinders	1	1508745376	1508745376	18.56	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
make	28	3676515080	131304110	1.62	0.0525
bodytype	6	1073225775	178870962	2.20	0.0521
carproof	1	92511572	92511572	1.14	0.2895
fuel	3	367136117	122378706	1.51	0.2201
km	1	1058650615	1058650615	13.02	0.0006
year	1	925414526	925414526	11.38	0.0012
cylinders	1	1508745376	1508745376	18.56	<.0001

GLM 1d

**The GLM Procedure**

Class Level Information		
Class	Levels	Values
<b>make</b>	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
<b>bodytype</b>	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon
<b>fuel</b>	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117

## The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	40	27858493283	696462332	8.55	<.0001
<b>Error</b>	76	6190192253	81449898		
<b>Corrected Total</b>	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.818196	46.73850	9024.960	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
<b>make</b>	28	11801682745	421488669	5.17	<.0001
<b>bodytype</b>	6	4759262458	793210410	9.74	<.0001
<b>fuel</b>	3	1503289280	501096427	6.15	0.0008
<b>km</b>	1	7471123847	7471123847	91.73	<.0001
<b>year</b>	1	888626719	888626719	10.91	0.0015
<b>cylinders</b>	1	1434508234	1434508234	17.61	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
<b>make</b>	28	4013601831	143342923	1.76	0.0276
<b>bodytype</b>	6	1196134514	199355752	2.45	0.0323
<b>fuel</b>	3	418649640	139549880	1.71	0.1714
<b>km</b>	1	1295242481	1295242481	15.90	0.0002
<b>year</b>	1	1057988693	1057988693	12.99	0.0006
<b>cylinders</b>	1	1434508234	1434508234	17.61	<.0001

## GLM 2

## The GLM Procedure

Class Level Information		
Class	Levels	Values
<b>make</b>	29	Acura Audi BMW Cadillac Chevrolet Chrysler Dodge Fiat Ford GMC Honda Hyundai Infiniti Jeep Kia Land Rover Lexus Lincoln MINI Cooper Mazda Mercedes-Benz Nissan Pontiac Porsche Range Rover Scion Subaru Toyota Volkswagen
<b>bodytype</b>	7	Coupe Hatchback Minivan SUV Sedan Truck Wagon

<b>Number of Observations Read</b>	117
<b>Number of Observations Used</b>	117

# The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	27439843642	741617396	8.87	<.0001
Error	79	6608841893	83656226		
Corrected Total	116	34048685535			

R-Square	Coeff Var	Root MSE	price Mean
0.805900	47.36730	9146.378	19309.48

Source	DF	Type I SS	Mean Square	F Value	Pr > F
make	28	11801682745	421488669	5.04	<.0001
bodytype	6	4759262458	793210410	9.48	<.0001
km	1	8053101725	8053101725	96.26	<.0001
year	1	1110236957	1110236957	13.27	0.0005
cylinders	1	1715559757	1715559757	20.51	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
make	28	4715729360	168418906	2.01	0.0083
bodytype	6	1333364385	222227397	2.66	0.0212
km	1	1269547922	1269547922	15.18	0.0002
year	1	1260112483	1260112483	15.06	0.0002
cylinders	1	1715559757	1715559757	20.51	<.0001

## GLM 3

## The GLM Procedure

Class Level Information		
Class	Levels	Values
transmission	3	Automatic CVT Manual
location	9	Durham Region Halton Region Hamilton Region Niagara Region North York Peel Region Simcoe County Toronto York Region
make	18	BMW Buick Cadillac Chevrolet Dodge Ford GMC Honda Hyundai Jeep Kia Lexus Lincoln Mazda Mercedes-Benz Nissan Ram Toyota
bodytype	6	Coupe Hatchback Minivan SUV Sedan Truck
colour	7	black blue grey other red silver white
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	83
Number of Observations Used	83



**The GLM Procedure****Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	42	18769283947	446887713	7.23	<.0001
Error	40	2470863944	61771599		
Corrected Total	82	21240147891			

R-Square	Coeff Var	Root MSE	price Mean
0.883670	18.68672	7859.491	42059.24

Source	DF	Type I SS	Mean Square	F Value	Pr > F
transmission	2	1094084972	547042486	8.86	0.0007
location	8	1725746616	215718327	3.49	0.0038
make	17	5462225046	321307356	5.20	<.0001
bodytype	5	5472876369	1094575274	17.72	<.0001
colour	6	642415817	107069303	1.73	0.1383
fuel	3	1040336441	346778814	5.61	0.0026
cylinders	1	3331598685	3331598685	53.93	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
transmission	2	123657656	61828828	1.00	0.3766
location	8	737264704	92158088	1.49	0.1908
make	17	2755554004	162091412	2.62	0.0061
bodytype	5	1756463594	351292719	5.69	0.0005
colour	6	178889944	29814991	0.48	0.8172
fuel	3	964681177	321560392	5.21	0.0040
cylinders	1	3331598685	3331598685	53.93	<.0001

## GLM 3a

## The GLM Procedure

Class Level Information		
Class	Levels	Values
transmission	3	Automatic CVT Manual
location	9	Durham Region Halton Region Hamilton Region Niagara Region North York Peel Region Simcoe County Toronto York Region
make	18	BMW Buick Cadillac Chevrolet Dodge Ford GMC Honda Hyundai Jeep Kia Lexus Lincoln Mazda Mercedes-Benz Nissan Ram Toyota
bodytype	6	Coupe Hatchback Minivan SUV Sedan Truck
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	83
Number of Observations Used	83

**The GLM Procedure****Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	36	18590394003	516399833	8.96	<.0001
Error	46	2649753889	57603345		
Corrected Total	82	21240147891			

R-Square	Coeff Var	Root MSE	price Mean
0.875248	18.04523	7589.687	42059.24

Source	DF	Type I SS	Mean Square	F Value	Pr > F
transmission	2	1094084972	547042486	9.50	0.0004
location	8	1725746616	215718327	3.74	0.0019
make	17	5462225046	321307356	5.58	<.0001
bodytype	5	5472876369	1094575274	19.00	<.0001
fuel	3	1315704903	438568301	7.61	0.0003
cylinders	1	3519756097	3519756097	61.10	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
transmission	2	79471815	39735908	0.69	0.5068
location	8	869137225	108642153	1.89	0.0853
make	17	3297836752	193990397	3.37	0.0005
bodytype	5	1771828585	354365717	6.15	0.0002
fuel	3	1128293701	376097900	6.53	0.0009
cylinders	1	3519756097	3519756097	61.10	<.0001

## GLM 3b

## The GLM Procedure

Class Level Information		
Class	Levels	Values
location	9	Durham Region Halton Region Hamilton Region Niagara Region North York Peel Region Simcoe County Toronto York Region
make	18	BMW Buick Cadillac Chevrolet Dodge Ford GMC Honda Hyundai Jeep Kia Lexus Lincoln Mazda Mercedes-Benz Nissan Ram Toyota
bodytype	6	Coupe Hatchback Minivan SUV Sedan Truck
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	83
Number of Observations Used	83

# The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	34	18510922187	544438888	9.58	<.0001
Error	48	2729225704	56858869		
Corrected Total	82	21240147891			

R-Square	Coeff Var	Root MSE	price Mean
0.871506	17.92824	7540.482	42059.24

Source	DF	Type I SS	Mean Square	F Value	Pr > F
location	8	2574137231	321767154	5.66	<.0001
make	17	5697685552	335157974	5.89	<.0001
bodytype	5	5434947359	1086989472	19.12	<.0001
fuel	3	1309213528	436404509	7.68	0.0003
cylinders	1	3494938517	3494938517	61.47	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
location	8	876156001	109519500	1.93	0.0775
make	17	3409588168	200564010	3.53	0.0003
bodytype	5	1714874682	342974936	6.03	0.0002
fuel	3	1227865685	409288562	7.20	0.0004
cylinders	1	3494938517	3494938517	61.47	<.0001

## GLM 4

## The GLM Procedure

Class Level Information		
Class	Levels	Values
make	18	BMW Buick Cadillac Chevrolet Dodge Ford GMC Honda Hyundai Jeep Kia Lexus Lincoln Mazda Mercedes-Benz Nissan Ram Toyota
bodytype	6	Coupe Hatchback Minivan SUV Sedan Truck
fuel	4	Diesel Fuel Flex Fuel Capability Premium Unleaded Regular Unleaded

Number of Observations Read	83
Number of Observations Used	83

## The GLM Procedure

**Dependent Variable: price price**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	26	17634766186	678260238	10.53	<.0001
<b>Error</b>	56	3605381705	64381816		
<b>Corrected Total</b>	82	21240147891			

R-Square	Coeff Var	Root MSE	price Mean
0.830256	19.07744	8023.828	42059.24

Source	DF	Type I SS	Mean Square	F Value	Pr > F
<b>make</b>	17	7705752890	453279582	7.04	<.0001
<b>bodytype</b>	5	5275784138	1055156828	16.39	<.0001
<b>fuel</b>	3	1381357194	460452398	7.15	0.0004
<b>cylinders</b>	1	3271871963	3271871963	50.82	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
<b>make</b>	17	4951274940	291251467	4.52	<.0001
<b>bodytype</b>	5	1900666974	380133395	5.90	0.0002
<b>fuel</b>	3	1417901270	472633757	7.34	0.0003
<b>cylinders</b>	1	3271871963	3271871963	50.82	<.0001