Descriptive Statistics

The MEANS Procedure

Variable	Mean	Median	Mode	Std Dev	Variance	Minimum	Maximum
car_ID	103.0000000	103.0000000	.	59.3225646	3519.17	1.0000000	205.0000000
symboling	0.8341463	1.0000000	0	1.2453068	1.5507891	-2.0000000	3.0000000
wheelbase	98.7565854	97.0000000	94.5000000	6.0217757	36.2617824	86.6000000	120.9000000
carlength	174.0492683	173.2000000	157.3000000	12.3372885	152.2086882	141.1000000	208.1000000
carwidth	65.9078049	65.5000000	63.8000000	2.1452039	4.6018996	60.3000000	72.3000000
carheight	53.7248780	54.1000000	50.8000000	2.4435220	5.9707996	47.8000000	59.8000000
curbweight	2555.57	2414.00	2385.00	520.6802035	271107.87	1488.00	4066.00
enginesize	126.9073171	120.0000000	92.0000000	41.6426934	1734.11	61.0000000	326.0000000
boreratio	3.3297561	3.3100000	3.6200000	0.2708437	0.0733563	2.5400000	3.9400000
stroke	3.2554146	3.2900000	3.4000000	0.3135970	0.0983431	2.0700000	4.1700000
compressionratio	10.1425366	9.0000000	9.0000000	3.9720403	15.7771043	7.0000000	23.0000000
horsepower	104.1170732	95.0000000	68.0000000	39.5441668	1563.74	48.0000000	288.0000000
peakrpm	5125.12	5200.00	5500.00	476.9856431	227515.30	4150.00	6600.00
citympg	25.2195122	24.0000000	31.0000000	6.5421417	42.7996174	13.0000000	49.0000000
highwaympg	30.7512195	30.0000000	25.0000000	6.8864431	47.4230990	16.0000000	54.0000000
price	13276.71	10295.00	5572.00	7988.85	63821761.58	5118.00	45400.00

Descriptive Statistics

The UNIVARIATE Procedure
Variable: price

Moments			
N	205	Sum Weights	205
Mean	13276.7106	Sum Observations	2721725.67
Std Deviation	7988.85233	Variance	63821761.6
Skewness	1.77767816	Kurtosis	3.05164787
Uncorrected SS	4.91552E10	Corrected SS	1.30196E10
Coeff Variation	60.171925	Std Error Mean	557.96565

Basic Statistical Measures			
Location		Variability	
Mean	13276.71	Std Deviation	7989
Median	10295.00	Variance	63821762
Mode	5572.00	Range	40282
		Interquartile Range	8715

Note: The mode displayed is the smallest of 16 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.79485	Pr > |t|	<.0001
Sign	M	102.5	Pr >= |M|	<.0001
Signed Rank	S	10557.5	Pr >= |S|	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	45400
99%	40960
95%	32528
90%	22625
75% Q3	16503
50% Median	10295
25% Q1	7788
10%	6649
5%	6189
1%	5195
0% Min	5118

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5118	139	36880	18
5151	19	37028	129
5195	51	40960	74
5348	151	41315	17
5389	77	45400	75

Missing of Numeric Values

The MEANS Procedure

Variable	N Miss

Variable	N Miss
car_ID	0
symboling	0
wheelbase	0
carlength	0
carwidth	0
carheight	0
curbweight	0
enginesize	0
boreratio	0
stroke	0
compressionratio	0
horsepower	0
peakrpm	0
citympg	0
highwaympg	0
price	0

Correlation Matrix

The CORR Procedure

15 Variables:	symboling wheelbase carlength carwidth carheight curbweight enginesize boreratio stroke compressionratio horsepower peakrpm citympg highwaympg price

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
symboling	205	0.83415	1.24531	171.00000	-2.00000	3.00000
wheelbase	205	98.75659	6.02178	20245	86.60000	120.90000
carlength	205	174.04927	12.33729	35680	141.10000	208.10000
carwidth	205	65.90780	2.14520	13511	60.30000	72.30000
carheight	205	53.72488	2.44352	11014	47.80000	59.80000
curbweight	205	2556	520.68020	523891	1488	4066
enginesize	205	126.90732	41.64269	26016	61.00000	326.00000
boreratio	205	3.32976	0.27084	682.60000	2.54000	3.94000
stroke	205	3.25541	0.31360	667.36000	2.07000	4.17000
compressionratio	205	10.14254	3.97204	2079	7.00000	23.00000
horsepower	205	104.11707	39.54417	21344	48.00000	288.00000
peakrpm	205	5125	476.98564	1050650	4150	6600
citympg	205	25.21951	6.54214	5170	13.00000	49.00000
highwaympg	205	30.75122	6.88644	6304	16.00000	54.00000
price	205	13277	7989	2721726	5118	45400

Pearson Correlation Coefficients, N = 205
Prob > |r| under H0: Rho=0

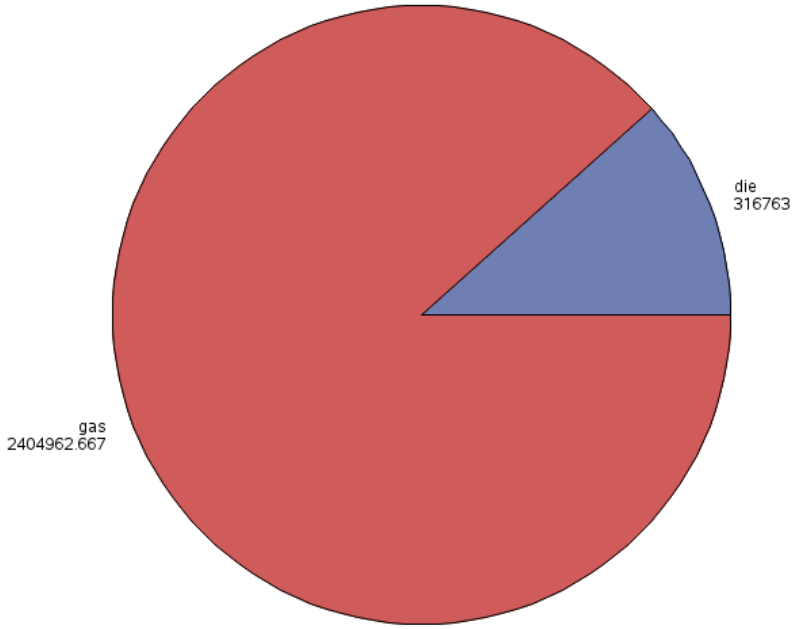
	symboling	wheelbase	carlength	carwidth	carheight	curbweight	enginesize	boreratio	stroke	compressionratio	horsepower	peakrpm	citympg	highwaympg	price
symboling	1.00000	-0.53195 <.0001	-0.35761 <.0001	-0.23292 0.0008	-0.54104 <.0001	-0.22769 0.0010	-0.10579 0.1311	-0.13005 0.0631	-0.00874 0.9011	-0.17852 0.0104	0.07087 0.3126	0.27361 <.0001	-0.03582 0.6101	0.03461 0.6223	-0.07998 0.2543
wheelbase	-0.53195 <.0001	1.00000	0.87459 <.0001	0.79514 <.0001	0.58943 <.0001	0.77639 <.0001	0.56933 <.0001	0.48875 <.0001	0.16096 0.0211	0.24979 0.0003	0.35329 <.0001	-0.36047 <.0001	-0.47041 <.0001	-0.54408 <.0001	0.57782 <.0001
carlength	-0.35761 <.0001	0.87459 <.0001	1.00000	0.84112 <.0001	0.49103 <.0001	0.87773 <.0001	0.68336 <.0001	0.60645 <.0001	0.12953 0.0642	0.15841 0.0233	0.55262 <.0001	-0.28724 <.0001	-0.67091 <.0001	-0.70466 <.0001	0.68292 <.0001
carwidth	-0.23292 0.0008	0.79514 <.0001	0.84112 <.0001	1.00000	0.27921 <.0001	0.86703 <.0001	0.73543 <.0001	0.55915 <.0001	0.18294 0.0087	0.18113 0.0093	0.64073 <.0001	-0.22001 0.0015	-0.64270 <.0001	-0.67722 <.0001	0.75933 <.0001
carheight	-0.54104 <.0001	0.58943 <.0001	0.49103 <.0001	0.27921 <.0001	1.00000	0.29557 <.0001	0.06715 0.3388	0.17107 0.0142	-0.05531 0.4309	0.26121 0.0002	-0.10880 0.1204	-0.32041 <.0001	-0.04864 0.4886	-0.10736 0.1255	0.11934 0.0883
curbweight	-0.22769 0.0010	0.77639 <.0001	0.87773 <.0001	0.86703 <.0001	0.29557 <.0001	1.00000	0.85059 <.0001	0.64848 <.0001	0.16879 0.0155	0.15136 0.0303	0.75074 <.0001	-0.26624 0.0001	-0.75741 <.0001	-0.79746 <.0001	0.83530 <.0001
enginesize	-0.10579 0.1311	0.56933 <.0001	0.68336 <.0001	0.73543 <.0001	0.06715 0.3388	0.85059 <.0001	1.00000	0.58377 <.0001	0.20313 0.0035	0.02897 0.6801	0.80977 <.0001	-0.24466 0.0004	-0.65366 <.0001	-0.67747 <.0001	0.87414 <.0001
boreratio	-0.13005 0.0631	0.48875 <.0001	0.60645 <.0001	0.55915 <.0001	0.17107 0.0142	0.64848 <.0001	0.58377 <.0001	1.00000	-0.05591 0.4259	0.00520 0.9410	0.57368 <.0001	-0.25498 0.0002	-0.58453 <.0001	-0.58701 <.0001	0.55317 <.0001
stroke	-0.00874 0.9011	0.16096 0.0211	0.12953 0.0642	0.18294 0.0087	-0.05531 0.4309	0.16879 0.0155	0.20313 0.0035	-0.05591 0.4259	1.00000	0.18611 0.0075	0.08094 0.2486	-0.06796 0.3329	-0.04214 0.5485	-0.04393 0.5317	0.07944 0.2575
compressionratio	-0.17852 0.0104	0.24979 0.0003	0.15841 0.0233	0.18113 0.0093	0.26121 0.0002	0.15136 0.0303	0.02897 0.6801	0.00520 0.9410	0.18611 0.0075	1.00000	-0.20433 0.0033	-0.43574 <.0001	0.32470 <.0001	0.26520 0.0001	0.06798 0.3328
horsepower	0.07087 0.3126	0.35329 <.0001	0.55262 <.0001	0.64073 <.0001	-0.10880 0.1204	0.75074 <.0001	0.80977 <.0001	0.57368 <.0001	0.08094 0.2486	-0.20433 0.0033	1.00000	0.13107 0.0610	-0.80146 <.0001	-0.77054 <.0001	0.80814 <.0001
peakrpm	0.27361 <.0001	-0.36047 <.0001	-0.28724 <.0001	-0.22001 0.0015	-0.32041 <.0001	-0.26624 0.0001	-0.24466 0.0004	-0.25498 0.0002	-0.06796 0.3329	-0.43574 <.0001	0.13107 0.0610	1.00000	-0.11354 0.1050	-0.05427 0.4396	-0.08527 0.2241
citympg	-0.03582 0.6101	-0.47041 <.0001	-0.67091 <.0001	-0.64270 <.0001	-0.04864 0.4886	-0.75741 <.0001	-0.65366 <.0001	-0.58453 <.0001	-0.04214 0.5485	0.32470 <.0001	-0.80146 <.0001	-0.11354 0.1050	1.00000	0.97134 <.0001	-0.68575 <.0001
highwaympg	0.03461 0.6223	-0.54408 <.0001	-0.70466 <.0001	-0.67722 <.0001	-0.10736 0.1255	-0.79746 <.0001	-0.67747 <.0001	-0.58701 <.0001	-0.04393 0.5317	0.26520 0.0001	-0.77054 <.0001	-0.05427 0.4396	0.97134 <.0001	1.00000	-0.69760 <.0001
price	-0.07998 0.2543	0.57782 <.0001	0.68292 <.0001	0.75933 <.0001	0.11934 0.0883	0.83530 <.0001	0.87414 <.0001	0.55317 <.0001	0.07944 0.2575	0.06798 0.3328	0.80814 <.0001	-0.08527 0.2241	-0.68575 <.0001	-0.69760 <.0001	1.00000

Variable Uniques

Car Name	Fuel Type	Aspiration	Door Number	Car Body	Drive Wheel	Engine Location	Engine Type	Cylinder Number	Fuel System
147	2	2	2	5	3	2	6	7	8

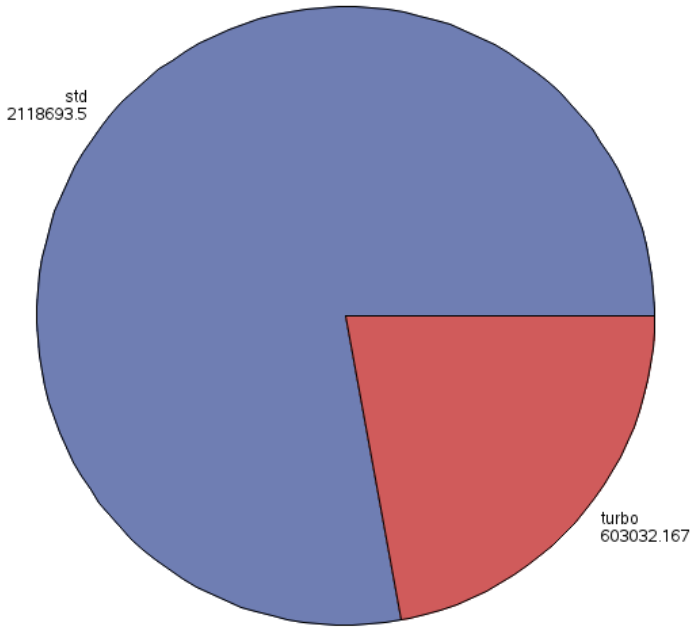
Fuel Type by Price

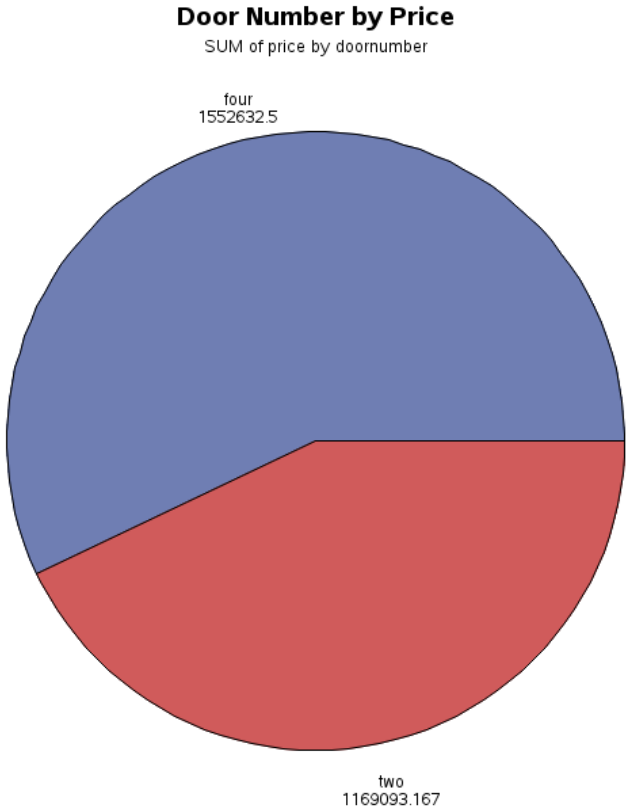
SUM of price by fueltype

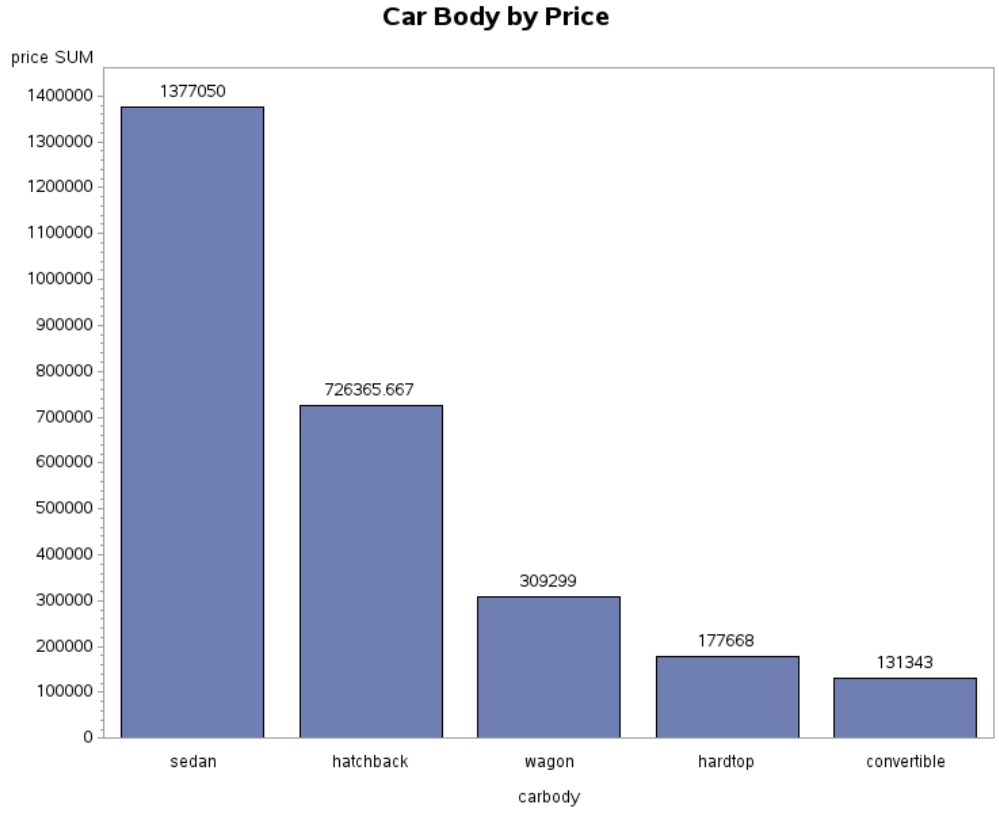


Aspiration by Price

SUM of price by aspiration

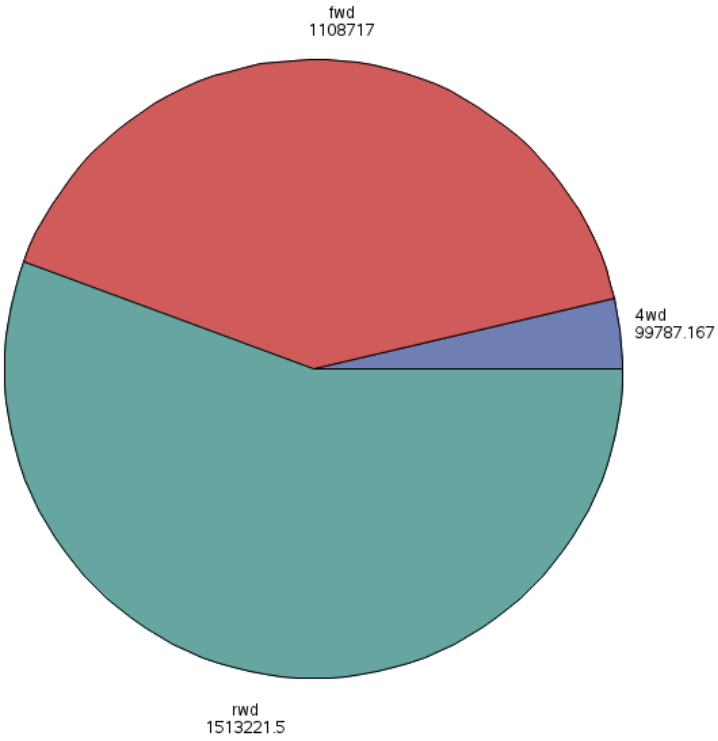



Door Number by Price
SUM of price by doornumber
four
1552632.5
two
1169093.167


Car Body by Price
price SUM
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
1377050
726365.667
309299
177668
131343
sedan
hatchback
wagon
hardtop
convertible
carbody

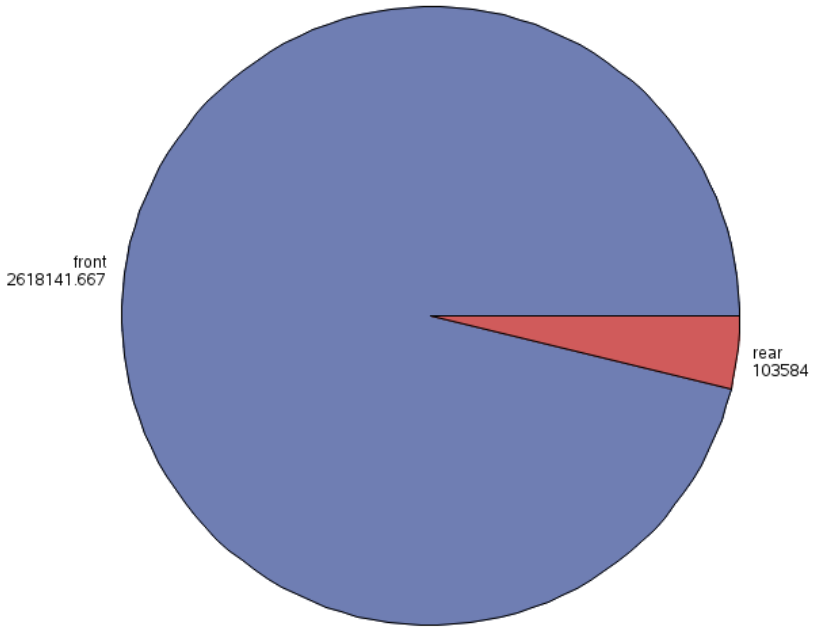
Drive Wheel by Price

SUM of price by drivewheel

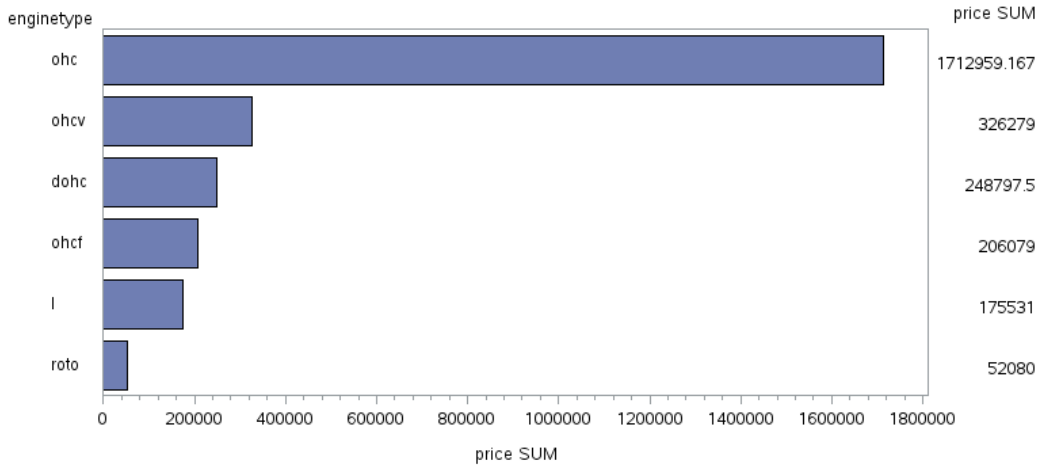


Engine Location by Price

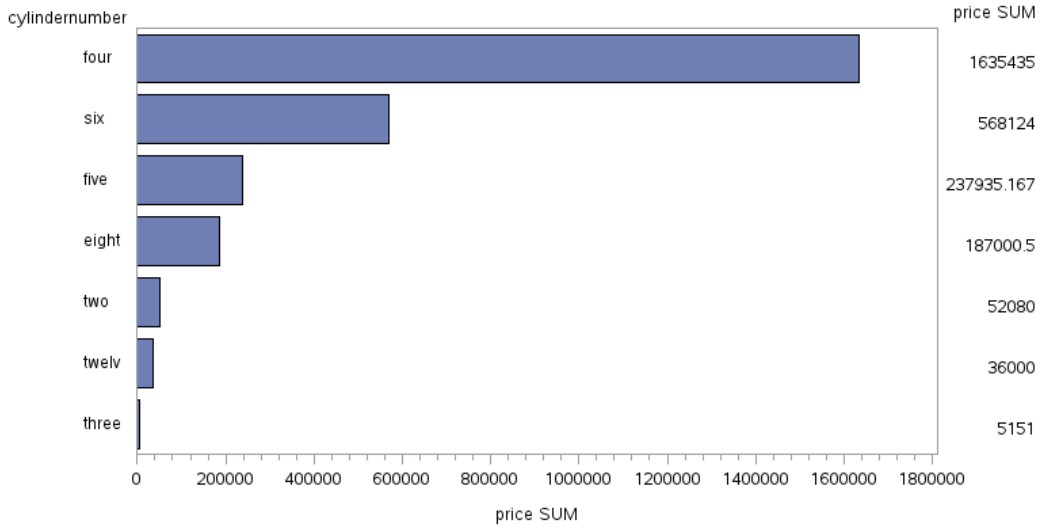
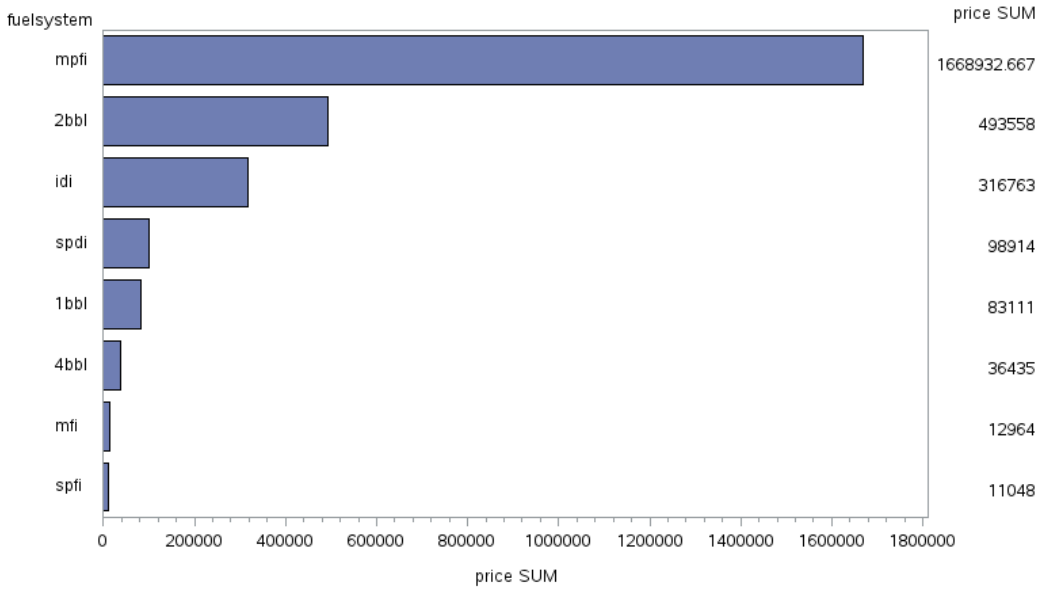
SUM of price by enginelocation



Engine Type by Price



Cylinder Number by Price



Fuel System by Price