

*cars93: First 10 observations*

C1	C2	C3	Y1	Y2	Y3	Y4	Y5	X1	C4	X2	X3	X4	X5	X6	B1	X7
Chevrolet	Cavalier	Compact	8.5	13.4	18.3	25	36	0	1	4	2.2	110	5200	2380	1	15.2
Chevrolet	Corsica	Compact	11.4	11.4	11.4	25	34	1	1	4	2.2	110	5200	2665	1	15.6
Acura	Integra	Small	12.9	15.9	18.8	25	31	0	1	4	1.8	140	6300	2890	1	13.2
Dodge	Colt	Small	7.9	9.2	10.6	29	33	0	1	4	1.5	92	6000	3285	1	13.2
Dodge	Shadow	Small	8.4	11.3	14.2	23	29	1	1	4	2.2	93	4800	2595	1	14.0
Eagle	Summit	Small	7.9	12.2	16.5	29	33	0	1	4	1.5	92	6000	2505	1	13.2
Ford	Festiva	Small	6.9	7.4	7.9	31	33	0	1	4	1.3	63	5000	3150	1	10.0
Ford	Tempo	Compact	10.4	11.3	12.2	22	27	0	1	4	2.3	96	4200	2805	1	15.9
Ford	Mustang	Sporty	10.8	15.9	21.0	22	29	1	0	4	2.3	105	4600	2285	1	15.4
Ford	Escort	Small	8.4	10.1	11.9	23	30	0	1	4	1.8	127	6500	2410	1	13.2

X8	X9	X10	X11	X12	X13	X14	X15	B2	Group
5	182	101	66	38	25.0	13	2490	1	1
5	184	103	68	39	26.0	14	2785	1	1
5	177	102	68	37	26.5	11	2705	0	1
5	174	98	66	32	26.5	11	2270	1	1
5	172	97	67	38	26.5	13	2670	1	1
5	174	98	66	36	26.5	11	2295	1	1
4	141	90	63	33	26.0	12	1845	1	1
5	177	100	68	39	27.5	13	2690	1	1
4	180	101	68	40	24.0	12	2850	1	1
5	171	98	67	36	28.0	12	2530	1	1

*SAS data file descriptions Numeric data: cars93*

<b>Obs</b>	<b>NAME</b>	<b>TYPE</b>	<b>LENGTH</b>	<b>VARNUM</b>	<b>LABEL</b>	<b>FORMAT</b>	<b>INFORMAT</b>	<b>NPOS</b>	<b>NOBS</b>	<b>ENGINE</b>
1	B1	1	8	16	B1			88	92	V8
7	Group	1	8	27	Group			168	92	V8
8	X1	1	8	9	X1			40	92	V8
9	X2	1	8	11	X2			48	92	V8
10	X3	1	8	12	X3			56	92	V8
11	X4	1	8	13	X4			64	92	V8
12	X5	1	8	14	X5			72	92	V8
13	X6	1	8	15	X6			80	92	V8
14	X7	1	8	17	X7			96	92	V8
15	X8	1	8	18	X8			104	92	V8
16	X9	1	8	19	X9			112	92	V8
17	X10	1	8	20	X10			120	92	V8
18	X11	1	8	21	X11			128	92	V8
19	X12	1	8	22	X12			136	92	V8
20	X13	1	8	23	X13			144	92	V8
21	X14	1	8	24	X14			152	92	V8
22	X15	1	8	25	X15			160	92	V8
23	Y1	1	8	4	Y1			0	92	V8
24	Y2	1	8	5	Y2			8	92	V8
25	Y3	1	8	6	Y3			16	92	V8
26	Y4	1	8	7	Y4			24	92	V8
27	Y5	1	8	8	Y5			32	92	V8

*SAS data file descriptions \_character data: cars93*

<b>Obs</b>	<b>NAME</b>	<b>TYPE</b>	<b>LENGTH</b>	<b>VARNUM</b>	<b>LABEL</b>	<b>FORMAT</b>	<b>INFORMAT</b>	<b>NPOS</b>	<b>NOBS</b>	<b>ENGINE</b>
<b>2</b>	B2	2	7	26	B2	\$	\$	215	92	V8
<b>3</b>	C1	2	13	1	C1	\$	\$	176	92	V8
<b>4</b>	C2	2	14	2	C2	\$	\$	189	92	V8
<b>5</b>	C3	2	7	3	C3	\$	\$	203	92	V8
<b>6</b>	C4	2	5	10	C4	\$	\$	210	92	V8

*Simple statistics of all numeric variables: cars93*

*The MEANS Procedure*

<b>Variable</b>	<b>Label</b>	<b>N</b>	<b>Mean</b>	<b>Std Dev</b>	<b>Minimum</b>	<b>Maximum</b>
Y1	Y1	92	17.2315217	8.7340049	6.7000000	45.4000000
Y2	Y2	92	19.6315217	9.6402308	7.4000000	61.9000000
Y3	Y3	92	22.0380435	11.0085565	7.9000000	80.0000000
Y4	Y4	92	22.2934783	5.6071737	15.0000000	46.0000000
Y5	Y5	92	29.0000000	5.2956544	20.0000000	50.0000000
X1	X1	92	0.8152174	0.7098885	0	2.0000000
X2	X2	91	4.9780220	1.3079078	3.0000000	8.0000000
X3	X3	92	2.6793478	1.0369586	1.0000000	5.7000000
X4	X4	92	144.5000000	52.2566574	55.0000000	300.0000000
X5	X5	92	5283.70	599.2719344	3800.00	6500.00
X6	X6	92	2331.79	499.2112358	1320.00	3755.00
B1	B1	92	0.6521739	0.4788903	0	1.0000000
X7	X7	92	16.7021739	3.2770591	9.2000000	27.0000000
X8	X8	92	5.0978261	1.0383819	2.0000000	8.0000000
X9	X9	92	183.4130435	14.5422100	141.0000000	219.0000000
X10	X10	92	104.0217391	6.8178471	90.0000000	119.0000000
X11	X11	92	69.4130435	3.7829931	60.0000000	78.0000000
X12	X12	92	39.0108696	3.1985387	32.0000000	45.0000000
X13	X13	90	27.8388889	3.0045170	19.0000000	36.0000000
X14	X14	81	13.8641975	3.0072957	6.0000000	22.0000000
X15	X15	92	3081.03	587.8675086	1695.00	4105.00
Group	Group	92	2.1630435	0.9291042	1.0000000	3.0000000

*Frequency statistics of all character variables:cars93*

*The FREQ Procedure*

C1	
C1	Frequency
Acura	2
Audi	2
BMW	1
Buick	4
Cadillac	2
Chevrolet	8
Chrylser	1
Chrysler	2
Dodge	6
Eagle	2
Ford	8
Geo	2
Honda	3
Hyundai	4
Infiniti	1
Lexus	2
Lincoln	2
Mazda	4
Mercedes-Benz	2
Mercury	2
Mitsubishi	2
Nissan	4
Oldsmobile	4
Plymouth	1
Pontiac	5
Saab	1
Saturn	1
Subaru	3
Suzuki	1
Toyota	4
Volkswagen	4
Volvo	2

*Frequency statistics of all character variables:cars93*

*The FREQ Procedure*

C2	
C2	Frequency
190E	1
240	1
300E	1
626	1
850	1
900	1
Accord	1
Achieva	1
Aerostar	1
Altima	1
Astro	1
Bonneville	1
Camaro	1
Camry	1
Capri	1
Caprice	1
Caravan	1
Cavalier	1
Celica	1
Century	1
Civic	1
Colt	1
Concorde	1
Continental	1
Corrado	1
Corsica	1
Corvette	1
Cougar	1
Crown_Victoria	1
Cutlass_Ciera	1
DeVille	1
Diamante	1
Dynasty	1
ES300	1
Eighty-Eight	1
Elantra	1

*Frequency statistics of all character variables:cars93*

*The FREQ Procedure*

C2	
C2	Frequency
Escort	1
Eurovan	1
Excel	1
Festiva	1
Firebird	1
Fox	1
Grand_Prix	1
Imperial	1
Integra	1
Justy	1
Laser	1
LeBaron	1
LeMans	1
LeSabre	1
Legacy	1
Legend	1
Loyale	1
Lumina	1
Lumina_APV	1
MPV	1
Maxima	1
Metro	1
Mirage	1
Mustang	1
Passat	1
Prelude	1
Previa	1
Probe	1
Protege	1
Q45	1
Quest	1
RX-7	1
Riviera	1
Roadmaster	1
SC300	1
SL	1

*Frequency statistics of all character variables:cars93*

*The FREQ Procedure*

C2	
C2	Frequency
Scoupe	1
Sentra	1
Seville	1
Shadow	1
Silhouette	1
Sonata	1
Spirit	1
Stealth	1
Storm	1
Summit	1
Sunbird	1
Swift	1
Taurus	1
Tempo	1
Tercel	1
Town_Car	1
Vision	1
five35i	1
ninty	1
onehundred	1

*Frequency statistics of all character variables:cars93*

*The FREQ Procedure*

C3	
C3	Frequency
Compact	16
Large	11
Midsize	22
Small	20
Sporty	14
Van	9

*Frequency statistics of all character variables: cars93*

*The FREQ Procedure*

C4	
C4	Frequency
<b>0</b>	16
<b>1</b>	66
<b>2</b>	10

*Frequency statistics of all character variables: cars93*

*The FREQ Procedure*

<b>B2</b>	
<b>B2</b>	<b>Frequency</b>
<b>0</b>	44
<b>1</b>	48