

The CONTENTS Procedure

Data Set Name	WORK.CSLADAT1	Observations	35
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	Friday, April 02, 2010 04:40:44 PM	Observation Length	40
Last Modified	Friday, April 02, 2010 04:40:44 PM	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_32		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	4096
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	101
Obs in First Data Page	35
Number of Data Set Repairs	0
File Name	C:\DOCUME~1\mfinney\LOCALS~1\Temp\SAS Temporary Files_TD4924\csladat1.sas7bdat
Release Created	9.0101M3
Host Created	XP_PRO

Alphabetic List of Variables and Attributes

#	Variable	Type	Len
5	MPG	Num	8
3	cylinder	Num	8
1	drive	Char	8
2	engine_size	Num	8
4	transmission	Char	8

Obs	drive	engine_ size	cylinder	transmission	MPG
1	2WD	4.3	6	Auto	15
2	2WD	4.3	6	Manual	15
3	2WD	4.8	8	Auto	15
4	2WD	4.8	8	Manual	16
5	2WD	5.3	8	Auto	11
6	2WD	5.3	8	Auto	15
7	2WD	5.3	8	Auto	15
8	2WD	5.3	8	Auto	15
9	2WD	6.0	8	Auto	10
10	2WD	6.0	8	Auto	10
11	2WD	4.3	6	Auto	16
12	2WD	4.3	6	Manual	15
13	2WD	4.8	8	Auto	15
14	2WD	4.8	8	Manual	16
15	2WD	5.3	8	Auto	11
16	2WD	5.3	8	Auto	15
17	2WD	5.3	8	Auto	15
18	4WD	4.3	6	Auto	14
19	4WD	4.3	6	Manual	14
20	4WD	4.8	8	Auto	14
21	4WD	4.8	8	Manual	14
22	4WD	5.3	8	Auto	10
23	4WD	5.3	8	Auto	13
24	4WD	5.3	8	Auto	14
25	4WD	4.3	6	Auto	15
26	4WD	4.3	6	Manual	14
27	4WD	4.3	6	Auto	15
28	4WD	4.3	6	Manual	14
29	4WD	4.8	8	Auto	14
30	4WD	4.8	8	Manual	14
31	4WD	5.3	8	Auto	10
32	4WD	5.3	8	Auto	13
33	4WD	5.3	8	Auto	14
34	4WD	4.3	6	Auto	15
35	4WD	4.3	6	Manual	14

The MEANS Procedure

Analysis Variable : MPG

N	Mean	Std Dev	Minimum	Maximum
35	13.8571429	1.7846215	10.0000000	16.0000000

----- transmission=Auto -----

The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
MPG	25	13.5600000	1.9807406	10.0000000	16.0000000
cylinder	25	7.5200000	0.8717798	6.0000000	8.0000000

----- transmission=Manual -----

Variable	N	Mean	Std Dev	Minimum	Maximum
MPG	10	14.6000000	0.8432740	14.0000000	16.0000000
cylinder	10	6.8000000	1.0327956	6.0000000	8.0000000

----- cylinder=6 -----

The FREQ Procedure

MPG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
14	5	41.67	5	41.67
15	6	50.00	11	91.67
16	1	8.33	12	100.00

----- cylinder=8 -----

The FREQ Procedure

MPG	Frequency	Percent	Cumulative Frequency	Cumulative Percent
10	4	17.39	4	17.39
11	2	8.70	6	26.09
13	2	8.70	8	34.78
14	6	26.09	14	60.87
15	7	30.43	21	91.30
16	2	8.70	23	100.00

The REG Procedure
 Model: MODEL1
 Dependent Variable: MPG

Number of Observations Read 35
 Number of Observations Used 35

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	51.02972	17.00991	9.21	0.0002
Error	31	57.25599	1.84697		
Corrected Total	34	108.28571			

Root MSE	1.35903	R-Square	0.4713
Dependent Mean	13.85714	Adj R-Sq	0.4201
Coeff Var	9.80745		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	26.61304	2.55288	10.42	<.0001
all_drive	1	-1.20577	0.47941	-2.52	0.0173
engine_size	1	-2.50879	0.53890	-4.66	<.0001
auto_trans	1	0.16002	0.58012	0.28	0.7845

The REG Procedure
 Model: MODEL2
 Dependent Variable: lmpg

Number of Observations Read 35
 Number of Observations Used 35

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.31398	0.10466	8.81	0.0002
Error	31	0.36838	0.01188		
Corrected Total	34	0.68236			

Root MSE	0.10901	R-Square	0.4601
Dependent Mean	2.61966	Adj R-Sq	0.4079
Coeff Var	4.16125		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	3.62425	0.20477	17.70	<.0001
all_drive	1	-0.08568	0.03845	-2.23	0.0333
engine_size	1	-0.19851	0.04323	-4.59	<.0001
auto_trans	1	0.01225	0.04653	0.26	0.7940