

Understanding SAS Program Syntax

Scenario

Examine program statements, improve program spacing, and add comments.

Files

- p101d02.sas
- sashelp.cars a sample table provided by SAS that includes basic information about 428 cars

Syntax

```
/*comment*/
*comment;
```

Notes

- · All statements end with a semicolon.
- Spacing does not matter in a SAS program.
- Values not enclosed in quotation marks can be lowercase, uppercase, or mixed case.
- Consistent program spacing is a good practice to make programs legible.
- Use the following automatic spacing features:

```
SAS Studio: Click Format Code
```

Enterprise Guide: Select **Edit** ⇒ **Format Code** or press Ctrl+I.

Comments can be added to prevent text in the program from executing.

Demo

- 1. Open the **p101d02.sas** program from the **demos** folder. Run the program. Does it run successfully?
- 2. Use the Format Code feature to improve the program spacing.
 - Enterprise Guide: Select **Edit** ⇒ **Format Code**. You can also right-click in the program and select **Format Code** or press Ctrl+I.
- 3. Add the following text as a comment before the DATA statement: *Program created by* <*your-name*>

Note: Select the comment text and press Ctrl+/ to surround it with /* and */.

4. Comment out the first TITLE statement and the WHERE statement in PROC PRINT. Run the code and verify that 428 rows are included in the results.

```
/*Program created by <name>*/
data mycars;
    set sashelp.cars;
    AvgMPG=mean(mpg_city, mpg_highway);
run;

*title "Cars with Average MPG Over 35";

proc print data=mycars;
    var make model type avgmpg;
```

```
*where AvgMPG > 35;
run;

title "Average MPG by Car Type";

proc means data=mycars
    mean min max maxdec=1;
    var avgmpg;
    class type;
run;

title;
```

Obs	Make	Model	Туре	AvgMPG
1	Acura	MDX	SUV	20.0
2	Acura	RSX Type S 2dr	Sedan	27.5
3	Acura	TSX 4dr	Sedan	25.5
4	Acura	TL 4dr	Sedan	24.0
5	Acura	3.5 RL 4dr	Sedan	21.0
6	Acura	3.5 RL w/Navigation 4dr	Sedan	21.0
7	Acura	NSX coupe 2dr manual S	Sports	20.5
0	Audi	A 4 1 9T 4 de	Codon	26.5

End of Demonstration