

# Chapter 26

## Saving and Printing Data

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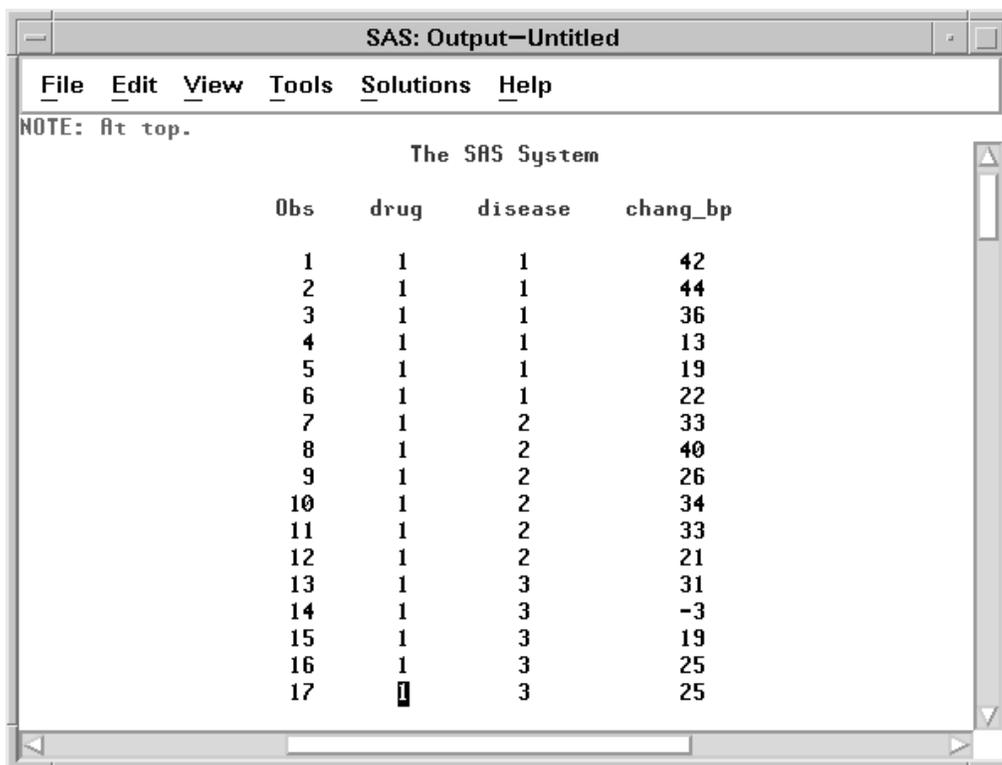


## Chapter 26

# Saving and Printing Data

*Saving* a data set means copying the data from a SAS/INSIGHT data window to a SAS data set. SAS/INSIGHT software automatically saves observation colors, markers, and other states as a variable in the SAS data set.

You can print the contents of any SAS data set to the SAS Output window and to a hardcopy device by using the PRINT procedure.



The screenshot shows the SAS Output window titled "SAS: Output—Untitled". The menu bar includes File, Edit, View, Tools, Solutions, and Help. The output text begins with "NOTE: At top." followed by the title "The SAS System". Below the title is a table with four columns: Obs, drug, disease, and chang\_bp. The table contains 17 rows of data. The 'Obs' column is numbered 1 through 17. The 'drug' column contains the value 1 for observations 1 through 16, and a vertical bar symbol for observation 17. The 'disease' column contains values 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, and 3. The 'chang\_bp' column contains values 42, 44, 36, 13, 19, 22, 33, 40, 26, 34, 33, 21, 31, -3, 19, 25, and 25.

| Obs | drug | disease | chang_bp |
|-----|------|---------|----------|
| 1   | 1    | 1       | 42       |
| 2   | 1    | 1       | 44       |
| 3   | 1    | 1       | 36       |
| 4   | 1    | 1       | 13       |
| 5   | 1    | 1       | 19       |
| 6   | 1    | 1       | 22       |
| 7   | 1    | 2       | 33       |
| 8   | 1    | 2       | 40       |
| 9   | 1    | 2       | 26       |
| 10  | 1    | 2       | 34       |
| 11  | 1    | 2       | 33       |
| 12  | 1    | 2       | 21       |
| 13  | 1    | 3       | 31       |
| 14  | 1    | 3       | -3       |
| 15  | 1    | 3       | 19       |
| 16  | 1    | 3       | 25       |
| 17  |      | 3       | 25       |

Figure 26.1. PROC PRINT Output

## Saving Data

All data analysis in SAS/INSIGHT software uses a copy of a SAS data set stored in memory. Since your original SAS data set is not stored in memory, it is not affected by changes you make in the data window.

When you save the data, you copy the data in memory to a SAS data set stored on disk. Saving the data makes a copy of

- all data values, including any you have edited with the **Data:Fill** menu
- all variables and observations, including any you have created
- measurement levels for up to 250 variables
- all observation states, including color, marker shape, show/hide, include/exclude, label/nolabel, and select states

Observation states are stored in a special variable **\_OBSTAT\_** that is automatically read in the next time you open the data set. Thus, if you have colored, marked, hidden, excluded, and labeled observations, you can save all these states, exit SAS/INSIGHT software, and invoke SAS/INSIGHT software again later without losing your work. You can also set the values of the **\_OBSTAT\_** variable to initialize observation states. For an example of this, see Chapter 30, “Working with Other SAS Products.”

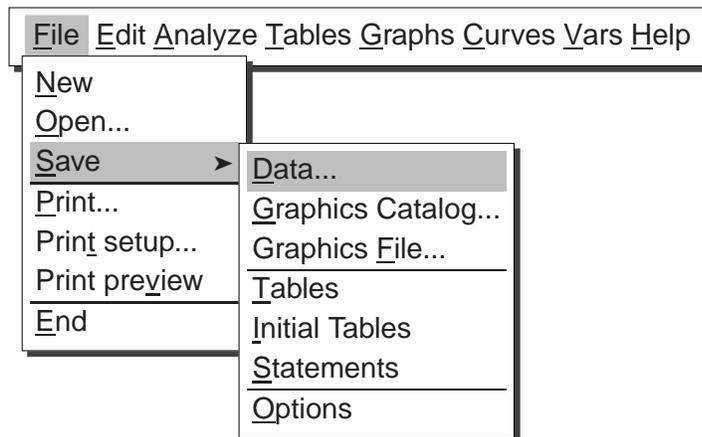
The following steps illustrate how to save data to a SAS data set.

⇒ **Open the DRUG data set.**

|    | Int  | Int     | Int      |
|----|------|---------|----------|
| 72 | DRUG | DISEASE | CHANG_BP |
| 1  | 1    | 1       | 42       |
| 2  | 1    | 1       | 44       |
| 3  | 1    | 1       | 36       |
| 4  | 1    | 1       | 13       |
| 5  | 1    | 1       | 19       |
| 6  | 1    | 1       | 22       |
| 7  | 1    | 2       | 33       |
| 8  | 1    | 2       | 40       |
| 9  | 1    | 2       | 26       |
| 10 | 1    | 2       | 34       |

**Figure 26.2. DRUG data**

⇒ **Choose File:Save:Data.**



**Figure 26.3.** File:Save Menu

This displays a dialog. By default, the data set you save to has the same name as the data window in your SAS/INSIGHT session. If you prefer, you can select another library and enter another data set name in the dialog.

⇒ **Click OK to save the data.**

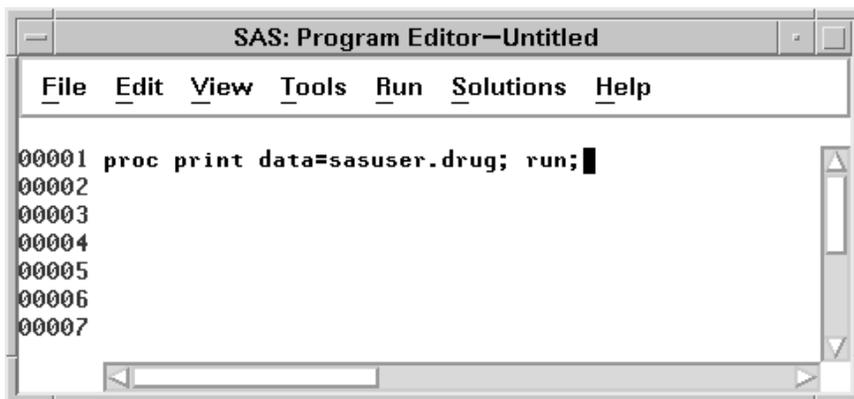


**Figure 26.4.** Save Dialog

## Printing Data

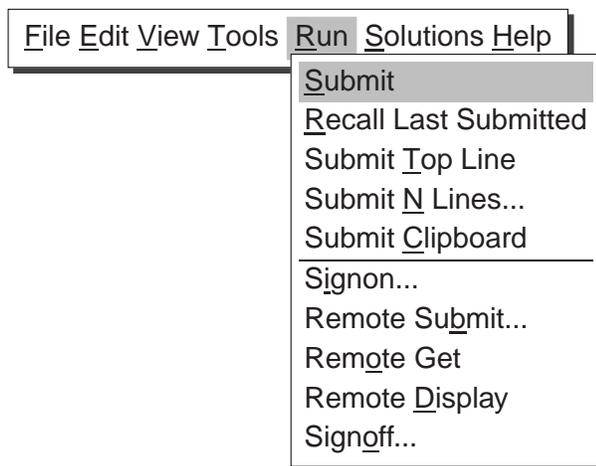
You can print the contents of the data window by saving it as a SAS data set and using the PRINT procedure. PROC PRINT sends its output to the Output window. You can send the contents of the Output window to a file or printer.

⇒ **Enter a PROC PRINT statement in the Program Editor.**



**Figure 26.5.** Program Editor

⇒ **Choose Run:Submit.**



**Figure 26.6.** Run Menu

This displays the observations in the Output window.

The screenshot shows the SAS Output window titled "SAS: Output—Untitled". The window contains a table with the following data:

| The SAS System |      |         |          |          |   |   |
|----------------|------|---------|----------|----------|---|---|
| Obs            | drug | disease | chang_bp | _OBSTAT_ |   |   |
| 1              | 1    | 1       | 42       | 01101    | 0 | 0 |
| 2              | 1    | 1       | 44       | 01101    | 0 | 0 |
| 3              | 1    | 1       | 36       | 01101    | 0 | 0 |
| 4              | 1    | 1       | 13       | 01101    | 0 | 0 |
| 5              | 1    | 1       | 19       | 01101    | 0 | 0 |
| 6              | 1    | 1       | 22       | 01101    | 0 | 0 |
| 7              | 1    | 2       | 33       | 01101    | 0 | 0 |
| 8              | 1    | 2       | 40       | 01101    | 0 | 0 |
| 9              | 1    | 2       | 26       | 01101    | 0 | 0 |
| 10             | 1    | 2       | 34       | 01101    | 0 | 0 |
| 11             | 1    | 2       | 33       | 01101    | 0 | 0 |
| 12             | 1    | 2       | 21       | 01101    | 0 | 0 |
| 13             | 1    | 3       | 31       | 01101    | 0 | 0 |
| 14             | 1    | 3       | -3       | 01101    | 0 | 0 |
| 15             | 1    | 3       | 19       | 01101    | 0 | 0 |
| 16             | 1    | 3       | 25       | 01101    | 0 | 0 |
| 17             | 1    | 3       | 25       | 01101    | 0 | 0 |

Figure 26.7. Output Window

You can send the contents of the Output window to a file or to a printer by choosing **File:Print** in the Output window. On many hosts, the SAS System is installed so that this menu sends the contents of the Output window to a default printer. You can also choose this menu to save the window contents to a file and later route them to a printer using appropriate host commands.

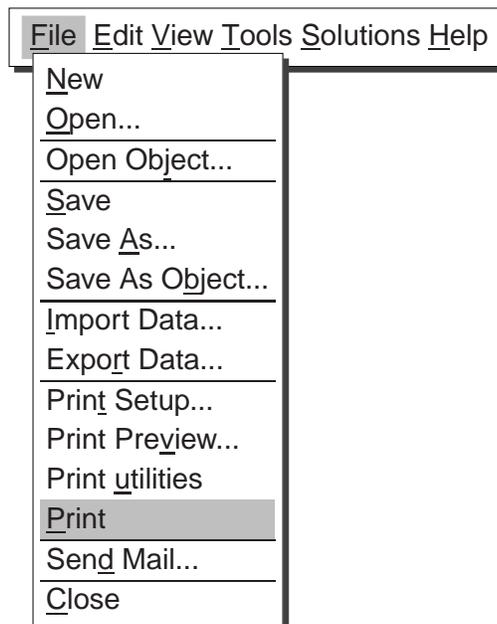


Figure 26.8. File Menu

## *Part 2. Introduction*

Alternatively, you can redirect SAS System output from the Output window to a text file by using the PRINTTO procedure.

For more information on printing from the Output window, refer to the SAS companion for your host. For more information on PROC PRINT and PROC PRINTTO, refer to the *SAS Procedures Guide*.

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