



...Maximizing your investment in the SAS® System...
and those in your organization who use it...

Summarizing and Reporting Data with the SAS System shows you the core SAS tools you can apply to create effective, efficient and informative summaries and reports from your SAS data sets

After taking this seminar you will be able to:

- Create effective and informative reports from the data in your SAS data sets.
- Apply Formats, Titles and Footnotes to your report
- Use PROC PRINT tools to create simple reports
- Create “crosstabs” with PROC FREQ
- Apply PROC FREQ options to create enhanced reports and data sets
- Re-arrange the rows in your data set with PROC SORT
- Apply the power of PROC REPORT to your projects
- Use PROC MEANS to analyze numeric data values.
- Create SAS data sets containing summaries and analyses from PROC MEANS
- Successfully complete the Advanced SAS Reporting Techniques and Success with the SAS Output Delivery System seminars also offered by Sierra.

Summarizing and Reporting Data with the SAS® System



Presentation Formats:
One-day lecture only or multi-day on-site with hands-on exercises and customization

Overview

This one-day session provides an intensive exposure to key SAS System tools for preparing summaries and reports of information contained in SAS data sets and emphasizes how to use SAS System data reporting and summarization tools which create informative reports and tables. It is presented in lecture format utilizing a combination of instructor demonstrations and lecture.

Intended Audience

This session is designed for the beginning to intermediate SAS Software user. The materials presented assume you are familiar with core SAS concepts such as data step, procedure step, variable, observation, label, format and function, and is an appropriate follow-on to SAS I01: Success with the SAS System, also offered by Sierra.

Seminar Topics:

Creating Simple But Effective Reports with PROCs PRINT and FREQ

- Default PROC PRINT Output
- Customizing PROC PRINT Output
- Default PROC FREQ Output: One-Way and Multi-Way Tables
- Customizing PROC FREQ Output
 - The ORDER= option
 - Selecting How Much Output to Appear with the “NO” Options
 - Creating Easy to Read PROC FREQ Output with the LIST Option

Useful Tools and Options for All SAS-Generated Reports

- Using the TITLES and FOOTNOTES Statements
- Sorting the Rows in Your File BEFORE Displaying Them Using a Reporting Procedure
- Applying Formats to Your Data
- Using the BY Statement in a Reporting Procedure
- Using Macro Variables to Customize TITLES and/or FOOTNOTES

Analyzing and Reporting Data with PROC MEANS

- Analyzing Numeric Variables
- Selecting the Analyses You Want with Statistics Keywords
- Using Classification Variables
- Creating Output SAS Data Sets with PROC MEANS
- Important Options and Tools in PROC MEANS

Harnessing the Power of PROC REPORT

- Core aspects of PROC REPORT Syntax
- How PROC REPORT combines Data Step and Procedure Step functionalities in one all-purpose report-generation procedure
- The COLUMN and DEFINE Statements
- Creating new columns using COMPUTE Blocks
- Generating summaries using the BREAK AFTER and RBREAK AFTER Statements
- Using the ACROSS Column Definition

Contact Sierra Information Services For More Information:

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About the Instructor

This seminar is written and presented by Andrew Karp, who started his own SAS Software consulting and training firm, Sierra Information Services, in 1994. Prior to starting Sierra he used SAS Software to manage and analyze data while holding positions with PriceWaterhouseCoopers, Federal Express Corporation, Pacific Gas & Electric Company and Kaiser Foundation Health Plan. A 25-year SAS user, Andrew is a SAS Certified Professional™ who has presented this, and other, training seminars to SAS users in the United States, England, Scotland, Belgium, Australia, New Zealand and the People's Republic of China.

He has served on the technical review teams for seven books published by SAS Institute and has been an invited speaker at twelve consecutive SAS Global Forum/SAS User Group International conferences, as well as other events for SAS users in seven countries. Andrew earned undergraduate and graduate degrees from The George Washington University and taught SAS classes for UC Berkeley's Extension Division from 1989 to 1995. He has also been a visiting lecturer in the Dept. of Experimental Statistics at Louisiana State University and at the University of Auckland in New Zealand.

About Sierra Information Services

Sierra Information Services is a **leading independent provider of SAS Software** consulting and training services. Our firm is based in the California Wine Country region north of San Francisco but travel both domestically and internationally to work with clients and present training seminars. Sierra offers clients a wide range of support, including SAS programming, data analysis/data mining with SAS tools, as well as the design and delivery of customized SAS Software training solutions tailored to the client's individual needs. Since its inception in 1994 Sierra has provided consulting and/or training services to, among others, Wells Fargo Bank, Bear Creek Corporation, Limited Brands, IBM, American Honda Motor Company, Lloyd's Bank/TSB, Capitol One Financial Services, Inc., Discover Financial Services, Inc., the US Department of Commerce and the US Federal Communications Commission. We have also provided consulting and training for numerous public and private sector entities in the United Kingdom, Belgium, Australia and New Zealand.

In addition to training solutions developed by Sierra's founder, Andrew Karp (see instructor's bio above), Sierra also works with other leading SAS experts to offer their training seminars around the United States. Sierra is proud to have well-known experts such as Art Carpenter, Michael Raithe, and David Cassell present their training seminars under our auspices.

For the most current list of our public seminars, or to learn more about how Sierra can assist you and your organization, please visit our web site at www.SierraInformation.com or call us a (707) 996 7380. We look forward to hearing from you soon!



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