



Advanced SAS® System Reporting Techniques



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

Advanced SAS Reporting Techniques takes you to the next level of data summarization and reporting skills with the SAS System. Attending this session will equip you with the latest in core SAS reporting tools.

After taking this seminar you will be able to:

- Apply advanced formatting tools and techniques to your reports.
- Harness the power of Multilabel Formats
- Apply advanced PROC MEANS resources to simplify and enhance the reports and data sets you create with it
- Exploit the CHARTYPE and other PROC MEANS options that save you programming and processing time
- Go beyond the basics with PROC REPORT
- Understand and apply COMPUTE blocks in PROC REPORT
- Exploit the CALL DEFINE resource in PROC REPORT
- Use PROC MEANS to analyze numeric data values.
- Create SAS data sets containing summaries and analyses from PROC MEANS
- Successfully complete the Success with the SAS Output Delivery System seminar also offered by Sierra.

Overview

This one-day seminar goes beyond the core tools presented in our “Summarizing and Reporting Using the SAS System” seminar to show you even more powerful reporting capabilities available in BASE SAS Software. By attending this session you will learn additional functionalities in PROCs REPORT, MEANS and FORMAT that create effective and compelling reports from your data, as well as ways to reduce the number of tasks/steps required to complete your data reporting or analysis project.

Audience

The materials presented in assume you have attended the introductory “Data Summarization and Reporting” session or that you have an equivalent level of experience using data management/reporting tools in the SAS System.

Seminar Topics

Exploiting Advanced Capabilities of the SAS Format Facility

- Understanding and Using Format Catalogs
 - Managing and Viewing the Contents of a Formats Catalog
 - Controlling the Search for Format Catalogs During Your SAS Session
- Creating and Applying Multilabel Formats
 - What Are Multilabel Formats (MLFs) and Why Are They So Useful?
 - Creating MLFs with PROC FORMAT
 - Implementing MLFs in PROCs MEANS, TABULATE and SUMMARY
- Creating and Applying PICTURE Formats
- Building Formats from the Observations and Variables in a SAS Data Set, and Vice-Versa Using Input and Output Control Data Sets

Applying Advanced Data Summarization Tools in PROC MEANS

- Using the CHARTYPE Option and Multiple Output Statements to Generate Multiple SAS output SAS Data Sets from a Single PROC MEANS “step.”
- Applying Multilabel Formats (MLFs) in PROC MEANS (see above)
- Using Ordering options in the CLASS Statement
- Understanding and Applying the PRELOADFMT and COMPLETETYPES Options to Ensure that all Formatted Values of a Class Variable Appear in Your Report, Even If There are No Observations in the Input Data Set With That Formatted Value of Your Classification Variable
- Using CLASSDATA Data Sets to Generate the Levels of a Classification Variable
- Using the Same Numeric Variable as Both a Classification and an Analysis Variable

Going Beyond the Basics with PROC REPORT

- “Sharing” the Values of Analysis Variables with the ACROSS Report Definition
- Applying the COMPLETEROWS and COMPLETECOLS Options
- An In-Depth Look at How PROC REPORT Builds Your Output:
 - Compute Blocks and the CALL DEFINE Statement
 - Advanced Capabilities of the BREAK and RBREAK Statements
- De-Mystifying PROC REPORT’s Aliasing Capabilities

Contact Sierra Information Services For More Information:

Email: training@sierrainformation.com **Phone:** (707) 996 7380

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 nine books published by SAS Institute and has been an invited speaker at fifteen consecutive SGF/SUGI 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, West Asset Management, PayPal, the American Board of Emergency Medicine, 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.

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 at (707) 360 5383. We look forward to hearing from you soon!



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

Sierra Information Services

**19229 Sonoma Highway
Sonoma, CA 95476**

Voice: (707) 996 7380

Fax: (800) 248 8958

Email: training@sierrainformation.com

**Visit Sierra on the Web at
www.SierraInformation.com**