

Boston Area SAS® Users Group Announcement

SAS Blowout Event!

Co-hosted by BASUG and SAS Institute Inc.

Thursday, September 29, 2016

3 events – come to any or come to all

Morning Training, Afternoon Quarterly Meeting, Evening Mixer

When	Thursday, September 29, 2016
Where	Microsoft New England Research and Development Center (NERD) ¹
	One Memorial Drive Conference Center, Floor 1 and 11 Cambridge, MA 02142 857-453-6000
Directions	Please visit the meeting site directions page
What	3 Events - come to any or come to all
How	Visit the event registration page to register for any of the events. Pre-registration is required – NO WALK-INS!
Agenda	Note: Our normal schedule is reversed MORNING - Training Lunch at 12:30 AFTERNOON - Quarterly meeting EVENING – Mixer
8:30 a.m.	Registration for training, Breakfast
9:00 a.m.	MORNING Training (details)
	Maximizing productivity and efficiency using Proc SQL: Improve database query building and performance today! Instructor: Sunil K. Gupta
12:30 p.m.	Networking lunch Registration for afternoon meeting
1:30 p.m.	AFTERNOON Quarterly Meeting (details)
5:00 p.m.	EVENING Mixer (details)
	Come and network with your fellow SAS buddies, mingle with the presenters, and enjoy wine, beer, and light refreshments. We'll be up on the 11th floor – a great space with a great view.

BASUG Training Details

Between the morning training and afternoon meeting, we will provide an informal light buffet lunch for all attendees. We hope you can join us for this opportunity to network and socialize with fellow SAS users.

Topic	Maximizing productivity and efficiency using Proc SQL: Improve database query building and performance today!
Instructor	Sunil K. Gupta
Summary	Do you need more effective techniques to query your big datasets? This course will help you master Proc SQL to organize, group, sort, summarize, and distill massive amounts of data into reliable information. SAS users of all levels will benefit from the instruction and step-by-step examples.
When	Thursday, September 29, 2016 8:30 a.m. - Registration and breakfast 9:00 a.m. to 12:30 p.m. - Class 12:30 p.m. - Networking lunch
Where	Microsoft New England Research and Development Center (NERD) ¹ One Memorial Drive Conference Center, Floor 1 Cambridge, MA 02142 857-453-6000
Directions	Please visit the meeting site directions page
Price	\$155. – if paid online by Monday, September 19 \$180. – if paid online by 12 Noon, Wednesday, September 28 \$195. – at the door, check only See details below
Audience / Prerequisites	Beginner to intermediate SAS programmers. No prerequisites.
How to register	Individual on-line registration required. No walk-ins. Pre-payment guarantees you a seat and handouts (if any). Please visit the event registration page
Contact	If you have questions about the course, please contact our training coordinator

Maximizing productivity and efficiency using Proc SQL: Improve database query building and performance today!

By Sunil Gupta

Course description

Do you need to learn effective techniques for querying terabytes of data? Whether you are a new or an experienced Proc SQL programmer, you can expect to quickly take advantage of Proc SQL to organize, group, sort, summarize and distill massive amounts of data into reliable information. This unique course explores syntax options for each common program task including selecting, creating, joining and summarizing data. By applying the step-by-step examples provided in the course, you too can master Proc SQL in your daily programming environment. Each student receives the companion SAS e-guide, a \$14.95 value, which is a great reference tool for searching, cutting and pasting concise model SAS examples.

SAS level / prerequisites

This class is ideal for beginner to intermediate SAS programmers. There are no prerequisites.

Course outline

1. Quick Results with Proc SQL e-Guide
 1. Proc SQL basic usage and syntax
 2. 8 common benefits for using Proc SQL
 3. Internal cross-reference links
 4. SAS Savvy's external links to relevant SAS papers, SAS Institute web site, webcasts, and more
2. Table Access and Retrieval
 1. Column definition – existing, new, statistical functions
 2. Join tables by inner join, outer join, fuzzy join, self-join, union, intersect, except
 3. Subset tables by rows, groups, subqueries, correlated subqueries
 4. Sort tables by rows, by groups, by groups and rows
3. Creating Macro Variables
 1. 5 options for creating macro variables
4. Table Structure Operations
 1. 5 options for creating or modifying table structure – create, alter, or drop tables / views / indexes
5. Table content operations
 1. 5 options for changing table content – update, insert, or delete rows
6. Connecting with Relational Databases and Dictionary Tables
 1. Proc SQL Basic Usage and Syntax – Oracle, DB2
 2. Leveraging the power of dictionary tables
7. Comparing Proc SQL with DATA Step Programming
 1. Side-by-side comparison of features, comparing Proc SQL with SAS procedures
 2. Unique Proc SQL keywords, SQL functions, automatic macro variables
 3. Summary sheet and SAS papers on SAS program efficiency

Instructor



Sunil Gupta, MS, is an international speaker, best-selling SAS author, and a global CDISC corporate trainer. Sunil is an Associate Director of Statistical Programming at Cytel and has over twenty-five years of experience in the pharmaceutical industry. Most recently, Sunil is now a CDISC Oncology ADaM reviewer and has taught both of his CDISC online classes with the University of California at San Diego. In 2011, Sunil launched his unique SAS resource blog, SASSavvy.com, for smarter SAS searches. Sunil has MS in Bioengineering from Clemson University and a BS in Applied Mathematics from the College of Charleston.

Training Registration and Payment Instructions

Please read this ENTIRE section carefully!

Price	<p>\$155. – if paid online by Monday, September 19</p> <p>\$180. – if paid online by 12 Noon, Wednesday, September 28</p> <p>\$195. – at the door, check only</p>
	<p>Pre-registration by 12 noon, Wednesday, September 28 is required for all price levels.</p>
Registration	<p>Individual, on-line registration is required.</p> <p>You must register for this training, even if you plan to pay by check. To register and purchase tickets for this class, visit the event registration page.</p> <p>Please register early. Seating and handouts (if any) are guaranteed only for the pre-paid registrants.</p>
Payment	<p>Credit card - we urge you to pay by credit card, using the online system. Make sure to purchase your ticket by September 19 to get the early-bird price.</p> <p>Check - at the door. Do NOT mail a check to us prior to the workshop. You must pre-register online and bring the check with you for the at-the-door price.</p> <p>Full payment is due by the day of the class. There will be NO exceptions. We do not accept cash. We do accept credit card payments only through our online registration system.</p>
Refund policy	<p>To receive a refund for the training, send an email to our training coordinator by 5PM on Monday, September 19, 2016. After September 19, we will refund your payment (less a \$10 processing fee) only if we can fill your seat with other attendees.</p>

BASUG Afternoon Meeting Details

Between the morning training and afternoon meeting, we will provide an informal light buffet lunch for all attendees. We hope you can join us for this opportunity to network and socialize with fellow SAS users.

Topic	Enhance your SAS skills with new SAS features
When	1:30 to 5:00 p.m. Note: this is an afternoon meeting
Where	Microsoft New England Research and Development Center (NERD) ¹ One Memorial Drive Conference Center, Floor 1 Cambridge, MA 02142 857-453-6000
Directions	Please visit the meeting site directions page
Price	\$10. – if paid online by Monday, September 19 \$15. – if paid online by 12 Noon, Wednesday, September 28 \$20. – at the door, check only Pre-registration required for all price levels.
How to register	Individual on-line registration required. No walk-ins. Please visit the event registration page
Contact	If you have questions about the meeting, please contact the meeting organizers

Agenda for afternoon meeting

12:30	Sign-in and lunch
1:30	Announcements
1:45	<i>Graphs are really easy with SAS 9.4</i> by Sanjay Matange, SAS Institute
2:35	Break
2:45	<i>New for SAS 9.4: A technique for including text and graphics in your Microsoft Excel workbooks</i> by Vince DelGobbo, SAS Institute
3:55	Break
4:05	<i>A ringside seat: The ODS Excel destination versus the ODS ExcelXP tagset</i> by Chevell Parker, SAS Institute
5:00	Mixer on the 11 th floor

Note: Times (and sequence) are approximate and subject to change. Please re-visit [the BASUG website](#) for updated information.

Abstracts and Speaker Biographies

Graphs are really easy with SAS 9.4

By Sanjay Matange



Sanjay Matange is R&D Director in the Data Visualization Division at SAS, responsible for the development and support of ODS Graphics. This includes the Graph Template Language (GTL), Statistical Graphics (SG) procedures, ODS Graphics Designer and other related graphics applications. Sanjay has been with SAS for over 25 years, co-author of two patents, author of three SAS Press books and author of [Graphically Speaking](#), a blog on data visualization.

Data set attribute maps, axis tables, polygon plot, text plot and more such features are added to ODS Graphics procedures and Graph Template Language (GTL) for SAS 9.4. These additions are a direct result of your feedback and are designed to make graphs easier. With these new features you can add multiple tables of data to your graphs anywhere, correctly aligned with the axis values. You can also control the colors for group values in your data and place rotated and aligned text anywhere in the graph. You can overlay jittered markers on box plots, use images and font glyphs as markers, specify group attributes without making style changes, and create entirely new custom graphs using the polygon plot. And you can do all this without even using the annotation facility, which is now supported both for ODS Graphics procedures and GTL. This presentation guides you through all these exciting new features now available in ODS Graphics procedures and GTL.

A ringside seat: The ODS Excel destination versus the ODS ExcelXP tagset

by Chevell Parker



Chevell Parker is a Senior Principal Technical Support Analyst at SAS. He is a member of the Foundation SAS team in Technical Support. His main areas of support include the Output Deliver System (ODS) and XML technologies. Chevell joined SAS in 1992.

The new and highly anticipated ODS destination for Microsoft Excel is finally here! Available as a production feature in the third maintenance release of SAS® 9.4 (TS1M3), this new destination generates native Excel (XLSX) files that are compatible with Microsoft Office 2010 or

later. This paper is written for anyone, from entry-level programmers to business analysts, who use SAS and Microsoft Excel to create reports.

The discussion covers features and benefits of the new Excel destination, differences between the Excel destination and the older ExcelXP tagset, and functionality that exists in the ExcelXP tagset that is not available in the Excel destination. These topics are all illustrated with meaningful examples. The paper also explains how you can bridge the gap that exists as a result of differences in the functionality between the destination and the tagset. And finally, the discussion outlines when it is beneficial for you to use the Excel destination versus the ExcelXP tagset, and vice versa. After reading this paper, you should be able to make an informed decision about which tool best meets your needs.

New for SAS 9.4: A technique for including text and graphics in your Microsoft Excel workbooks

By Vince DelGobbo



Vince DelGobbo is a Senior Software Developer in the Metadata and Execution Services group at SAS. The group's responsibilities include the SAS/IntrNet Application Dispatcher and SAS Stored Processes. Vince is involved in the development of new web- and server-based technologies, bringing third-party metadata into SAS, and integrating SAS output with Microsoft Office. He was also involved in the early development of the ExcelXP ODS tagset. Vince has been a SAS software user since 1982 and joined SAS in 1992.

A new ODS destination for creating Microsoft Excel workbooks is available starting in the third maintenance release of SAS 9.4. This destination creates native Microsoft Excel XLSX files, supports graphic images, and offers other advantages over the older ExcelXP tagset. In this presentation you learn step-by-step techniques for quickly and easily creating attractive multisheet Excel workbooks that contain your SAS output. The techniques can be used regardless of the platform on which SAS software is installed. You can even use them on a mainframe! Creating and delivering your workbooks on demand and in real time using SAS server technology is discussed. Although the title is similar to previous presentations by this author, this presentation contains new and revised material not previously presented.

Immediately following the afternoon meeting we will have our third annual BASUG mixer! We hope you can join us for this event.

BASUG Evening Mixer Details

What	Mix and Mingle with BASUG and our Presenters Come enjoy some drinks and appetizers with BASUG. We will be up on the 10 th and 11 th floors of the Microsoft building, with its stunning view of the Charles River and Boston skyline. This is a great chance to meet your fellow SAS users, and to schmooze with our speakers in a friendly and informal setting.
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When	Thursday, September 29, 2016 5:00 to 7:30 p.m.
Where	Microsoft New England Research and Development Center (NERD) ¹ One Memorial Drive Conference Center, Floor 11 Cambridge, MA 02142 857-453-6000
Directions	Please visit the meeting site directions page
Price	\$5. – if paid online by Monday, September 19 \$10. – if paid online by 12 Noon, Wednesday, September 28 \$15. – at the door, check only Pre-registration required for all price levels.
How to register	Individual on-line registration required. No walk-ins. Please visit the event registration page
Contact	If you have questions about the mixer, please contact our event organizers

BASUG Contacts

Mailing Address BASUG
 PO Box 17053
 Boston, MA 02117

Email [Our Webmaster](#)

¹ The Microsoft New England Research & Development Center (NERD) is a research and software innovation campus located in the heart of Cambridge, Massachusetts. The NERD vertical campus spans two buildings with its primary presence and conference center located at One Memorial Drive and a recently renovated and expanded space located at One Cambridge Center. NERD is home to some of Microsoft's most strategic teams including Microsoft Research New England, Microsoft Application Virtualization (App-V), SharePoint Workspace, Microsoft Technical Computing, Microsoft Advertising, Microsoft Lync, Microsoft Office 365 and more. NERD has become a hub of activity for the local tech community and has hosted more than 500 events and welcomed more than 40,000 visitors during the past two years.