

Subject **SAS Savvy July Newsletter**  
From SAS Savvy <admin@sassavvy.com>  
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GREETINGS!

# *SAS Savvy July Newsletter*

## **Over 35 hot tips to SAS Savvy and still growing!**

In July 2015, thanks to your suggestions, I added over 35 links and tips to SAS Savvy!. If you have been a member for several years now, you know that the foundation of SAS Savvy continues to grow as you grow. By accessing good SAS papers and adding great SAS tips and common FAQs, both junior and senior SAS programmers continue to benefit.

I just completed my five day SAS training class for Basic to Intermediate to Advanced SAS Amazon programmers in Bangalore. Based on this training, look for a new member search outline based on programming tasks instead of general category links. I hope this list of popular links will be helpful for you to make smarter SAS searches. Let me know what you think.

### See who likes SAS Savvy:

Alpin Starr likes SAS Savvy.

Clifford Couser likes SAS Savvy

Please note that because of the growth of SAS Savvy, if you have a free trial membership, it may expire in the next few weeks. If you find SAS Savvy to be a unique and valuable resource, I suggest you upgrade your membership now to the annual premium plan which is the most popular. This plan includes access to all SAS Savvy pages, videos, e-guides and monthly training sessions.

Thank you for your interest and help to grow SAS Savvy for smarter SAS searches.

I have been asked to write a book review for this new book release - SAS Programming and Data Visualization Techniques: A Power User's Guide. Look for it in the near future.

Help spread the word about SAS Savvy. Missed the recent [SAS Savvy Open House](#)? Watch the [video recording](#) now and see what's new.

To continue to navigate SAS Savvy, you can use the standard left side menu or the new Site Mind Map which should take you to each page.

<a href="#">SAS Job Aids</a>	<a href="#">SAS Programming Tasks</a>	<a href="#">Savvy Resources</a>
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These are the three levels to fit all SAS programmers. I hope these levels make it easier to find SAS papers and tips to address your questions and needs. Let me know what you think.

Remember, free SAS technical support is just an e-mail away.

[Beginner SAS Programmer](#)

[Advanced SAS Programmer](#)

[Macro SAS Programmer](#)

## SAS Savvy Updates

Below are updates made in July. Cannot wait till the end of the month for updates? You can subscribe to [free daily updates](#).

1. In the common FAQ section, I added these questions.
  - a. What is one of the main differences between PROC MEANS and PROC SUMMARY?
  - b. What is the main purpose for the ID statement in PROC MEANS?
  - c. What is the main difference between NODUPS and NODUPKEY?
  - d. As an alternative to using the SET statement to read SAS datasets, what option exists to read external files and write to external files?
2. In the SAS Programming Techniques page, I added links to the following SAS papers.
  - a. You've Got Mail – E-mailing Messages and Output Using SAS® EMAIL Engine
  - b. Sending E-mail from the DATA step
  - c. Automated distribution of SAS® results
3. In the PROC EXPAND and SAS Date page, I added two tables for common date informats and formats. I also added links to two good SAS papers on dates - How to Read, Write, and Manipulate SAS® Dates and SAS® Dates: Facts, Formats, and Functions.
4. In the New to SAS Programming page, I added references to SAS University Edition (Support Site, Download).
5. In the SAS Debugging page, I added these two SAS papers - Return of the Codes: SAS'®, Windows'®, and Yours and To Err is Human; to Debug, Divine.
6. In the common FAQ section, I added the following two questions in the SAS Debugging section:

- a. What are the three main categories of SAS bugs and a list of common SAS bugs?
  - b. What are some tips for checking the SAS program?
7. In the Data Step and Merge page for Arrays, I added the following five SAS papers.
- a. Using SAS® Arrays to Manipulate Data, Ben Cochran
  - b. Intro to Arrays: A Grad Student "How-To" Paper, Elisa L. Priest, Jennifer Harper
  - c. Advanced Array Applications in Clinical Data Manipulation, Zaizai Lu, David Shen
  - d. Using SAS® Arrays to Manipulate Data, Ben Cochran
  - e. Fun with Fancy Arrays, Mary McDonald
8. On the PROC REPORT page, I added links to the following great resources:
- a. Practically Perfect Presentations Using ODS and PROC REPORT
  - b. A Tutorial on PROC REPORT
  - c. Proc Tabulate: Extending This Powerful Tool Beyond Its Limitations
  - d. A Step-by-Step Introduction to PROC REPORT, David Lewandowski
9. In the common FAQ section for SAS programming, I added this question - What are some differences between IF 0 THEN SET XXX NOBS=X; and IF \_N\_ = 1 THEN DO; END;?
10. Based on member interest, I added the following three HASH table papers in the SAS version 9.2 page.
- a. Why Hash?
  - b. Hashing Performance Time with Hash Tables
  - c. I cut my processing time by 90% using hash tables - You can do it too!
11. To the SAS Functions page, I added the following SAS papers on how to process data across records like SAS procedures. Regular SAS functions work within records.
- a. What's the DIF?
  - b. LAG - the Very Powerful and Easily Misused SAS® Function
  - c. Longitudinal Data Techniques: Looking Across Observations
12. In the Data Step and Merge page, I added links to this SAS paper and two online references - The SAS Data Step: Where Your Input Matters.
13. On the SAS Technical Tips page, I added links to these two SAS papers - SMTP E-Mail Access Method: Hints, Tips, and Tricks and How to use Gmail to send a message from a SAS program.
14. In the SAS Version 9.2 page, I added this link - Hash Objects – Why Bother?
15. I recently added links to these SAS papers from SAS Global Forum 2015:
- a. On the New SAS Programmer page, What's New in SAS® Studio?
  - b. On the DATA Step Merge page, S-M-U (Set, Merge, and Update) Revisited.
  - c. On the SAS Macro Programming page, Quotes within Quotes: When Single (') and Double (") Quotes are not Enough.
  - d. On the Accessing external files page, Can you read this into SAS® for me? "Using INFILE and

INPUT to Load Data Into SAS®.

16. I just added many great SAS papers from SAS Global Forum 2015 in Dallas. See these pages for updates - Data Step and Merge, Proc SQL, Proc FORMAT, Business Intelligence and ETL and CDISC.

17. On the Proc Format page, I added two tables for Top Ten Common Reasons for using Proc Format and Top Ten Uncommon Reasons for using Proc Format.

18. In the PK/PD analysis page, I added a link to an Introduction to Pharmacokinetics presentation.

On the ODS page, I added several SAS papers on post-processing RTF files.

## **SAS Savvy Training**

SAS Savvy training covers new SAS topics and requests. Please see the video recording if you missed the live session. Below is the schedule for the next training sessions. As always, please e-mail me your favorite topic.

### An Alternative Method of Transposing Data without the Transpose Procedure

20 Aug 2015 11:00 AM • Webinar Training

#### I'll Have SAS and a side of Hash Tables

17 Sep 2015 11:00 AM • Webinar

#### Are you Lost? Find yourself with SAS Indexes.

15 Oct 2015 11:00 AM • webinar

#### Which Direction is your SAS Array?

12 Nov 2015 11:00 AM • webinar

**Sincerely, Sunil Gupta, SAS Savvy Mentor**

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