

Subject **SAS Savvy October Newsletter**  
From SAS Savvy <admin@sassavvy.com>  
To Sunil Gupta <sunil@guptaprogramming.com>  
Reply-To Sunil Gupta <sunil@guptaprogramming.com>  
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GREETINGS!

# *SAS Savvy October Newsletter*

## Happy Halloween - SAS Savvy continues to grow with more SAS Tricks and Tips!

If you missed the last SAS Savvy training session on Beyond Proc SQL: Dataset Vitals, you should see the video recording on how you can directly apply three essential macros for data set vitals: total record count, total unique patient count and duplicate records check.

Below is a new member quote -

'Hi Sunil, I usually visit your web savvy and is very useful for me.', Juan Vidal

I am honored to have my CDISC data quality and compliance check article, Standards for Clinical Data Quality and Compliance Checks, referenced in a chapter of the Society for Clinical Data Management's Good Clinical Data Management (GCDMP) document.

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.

[SAS Job Aids](#)

[SAS Programming Tasks](#)

[Savvy Resources](#)

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 October. Cannot wait till the end of the month for updates? You can subscribe to [free daily updates](#).

1. From the WUSS conference, I added the following great papers to Proc Compare, SAS Functions and Proc SQL pages:
  - a. Automated Validation of Complex Clinical Trials Made Easy, Richann Watson, Joshua Horstman
  - b. Fifteen Functions to Supercharge Your SAS® Code, Joshua Horstman
  - c. Merge with Caution: How to Avoid Common Problems when Combining SAS® Datasets, Joshua Horstman
  - d. An Intro to PROC SQL: Simple & Complex Queries, Melissa Navarro
  - e. Five Ways to Flip-Flop Your Data, Joshua Horstman (Compare and Conquer)
  - f. Quality Control of Clinical Data Listings with Proc Compare, Robert Bikwemu, Nicole Wallstedt (Proc Compare)
  - g. Avoiding Sinkholes: Common Mistakes During ADaM Data Set, Implementation, Richann Watson, Karl Miller (CDISC)
  - h. Job Upward Mobility: Getting Better When You're Already Good, Molly Meade Hall (Technical Interview Preparation)
  - i. Pattern of Adverse Events: The Use of Boxplot, Jui-Fu Huang (Clinical Data Reporting)
  - j. A Method for Simultaneously Programming Mock and Computed Tables, Michael Williams (Clinical Data Reporting)
  - k. PROC TABULATE Made Easy, Yunin Ludena, Elizabeth Guerrero (Proc Tabulate)
2. On the common FAQ page in the Proc SQL section, I added this question with the link to the SAS blog answer - Is it possible to custom sort with the Proc SQL Case Statement?
3. On the CDISC page, I added links to these great papers:
  - a. Customer oriented CDISC implementation, Edelbert Arnold, Ulrike Plank
  - b. Mapping the Company's Legacy Data Model to SDTM, Nicolas Dupuis, Anja Feuerbacher, Bruce Rogers
  - c. Automating the Link between Metadata and Analysis Datasets, Misha Rittmann
  - d. Going Against the Flow: Backmapping SDTM Data, Pantaleo Nacc
  - e. ADaM Datasets - Standard and Submission Ready, Karin Fleischer Steffensen
4. On the common FAQ page, for SAS Enterprise Guide, I added a link to using autoexecs. This is very important to continue using sas macros and global macros, etc.
5. On the SAS Enterprise Guide page, I added a link to this paper - New for SAS® 9.4: Including Text and Graphics in Your Microsoft Excel Workbooks, Part 2, Vincent DelGobbo.

6. On the common FAQ page for Statistical Analysis section, I added a link to this paper - How to understand weight variables in statistical analyses blog.
7. On the SAS Enterprise Guide page, I added links to these great papers -
  - a. Improving Efficiency in SAS® Enterprise Guide®: Parallel Processing and Other Hidden Gems, Benjamin First, Steven First
  - b. Transitioning from Batch and Interactive SAS® to SAS® Enterprise Guide, Brian Varney
  - c. Improving Your Relationship with SAS® Enterprise Guide®, Jennifer Bjurstrom
  - d. SAS® Programmer's Paradise: New Goodies in SAS® Enterprise Guide® 4.3, Audimar Bangi, Chris Hemedinger, Stephen Slocum
8. On the common FAQ page on the Macros section, I added a link to this blog - Modifying variable attributes in all datasets of a SAS library.
9. On the common FAQ section for SAS Enterprise Guide, I added a link to this blog - Ten SAS Enterprise Guide program editor tricks.
10. On the new SAS Programmer page, I added a link to this SAS paper - New to SAS® and New to Programming? What You Need to Do Before Typing Code, Stephanie Thompson.
11. I added links to these SAS papers:
  - a. Clinical Data Management - 5 data management best practices to help you do data right blog
  - b. CDISC ADaMs - Building Better ADaM Datasets Faster With If-less Programming, Lei Zhang
  - c. CDISC Project Management - A Lightweight HTML Codebook Generator for Clinical Trial Data, Lei Zhang
12. On the SAS Dates page, I added a link to this paper - When "Anydate" Doesn't Mean Any Date: A Macro Solution, Charlotte King, John Fleming.
13. I added this question to the common FAQ for Proc SQL
  - a. What is an example of merging datasets by different key variables and dates where one is datetime and the other is char?
  - b. Is it possible to apply a condition within functions? - Yes, select "Male" as Variable, mean(Male) format percent10.2 as Percent, min(Male) format comma10.0 as Min, max(Male) format comma10.0 as Max, sum(Male=.) format comma10.0 as N\_Miss, sum(Male=.) / count(Male) format percent10.2 as Pct\_Miss from school\_nodups;
  - c. Is it possible to apply functions in a CASE block? - Yes, create table &stagen as select unique 'check' as combo, case when count(&keyvr) = 1 then "No Dup " else 'Yes Dup' end as &stagen.\_dup label="&stagen: &stageds duplicate patient count" from &stagen.&stageds &cond group by &grpvr; quit;
14. On the common FAQ on Proc SQL page, I added this question - Can Proc SQL be used for one to one joins of different dataset records?
15. On the Clinical Data Management page, I added links to these great resources:
  - a. GCP Refresher and GCP/GCDMP Trends in the CTN
  - b. Good Clinical Data Management Practices, Version 4, October 2005
  - c. What is necessary to provide good clinical data for a clinical trial?
  - d. Set up Clinical Data Management System
16. On the Proc Transpose page, I added the link to this SAS paper - Taming the PROC TRANSPOSE, Matt Taylor.

## SAS Savvy Training

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

[New to Clinical Programming, No Problem!](#)

29 Nov 2017 11:00 AM • Webinar

[CDISC: What can be done with SUPPXX domains?](#)

17 Jan 2018 11:00 AM • webinar

Sincerely, Sunil Gupta, SAS Savvy Mentor

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