

# Cody's Data Cleaning Techniques Using SAS, Second Edition (SAS Press)

By Ron Cody



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Thoroughly updated for SAS 9, Cody's Data Cleaning Techniques Using SAS, Second Edition, addresses tasks that nearly every SAS programmer needs to dothat is, make sure that data errors are located and corrected. Written in Ron Cody's signature informal, tutorial style, this book develops and demonstrates data cleaning programs and macros that you can use as written or modify for your own special data cleaning needs. Each topic is developed through specific examples, and every program and macro is explained in detail.

#### You'll learn how to

- find and correct errors in character and numeric values
- develop programming techniques related to dates and missing values
- use SQL approaches to data cleaning
- develop techniques for correcting your data errors
- use integrity constraints and audit trails to prevent errors from being added to a clean data set

Novice and experienced SAS users will discover ways to detect and correct data errors while learning how to apply DATA step programming techniques and SAS procedures.



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#### **Editorial Review**

#### Review

"Clean data is critical to accurate analysis. By implementing programs and macros in Cody's Data Cleaning Techniques Using SAS, Second Edition, you can achieve the goal of a clean SAS data set. Easy-to-follow examples identify invalid, missing, or out-of-range data. Also included are chapters working with dates and matching Primary Key (Identifier) variables across multiple files. This Second Edition incorporates new features in SAS9.

This book is a valuable tool for all SAS users to prepare data for analysis." --Karol Katz, MS, Programmer/Analyst, Yale University School of Medicine

"Many veteran coders become comfortable - sometimes too comfortable - with the coding techniques that they learned early on in their careers. They believe that there is no need to adopt enhanced features since their old skills continue to provide an adequate return. Dr. Ron Cody is NOT one of those people; his published works on SAS embrace the changes that have occurred in the SAS language over the years. Some of his books, most notably SAS Functions by Example and Learning SAS by Example: A Programmer's Guide, are benchmarks by which other books should be measured. He's now taken one of his earlier works, Cody's Data Cleaning Techniques Using SAS Software and updated it to take advantage of what SAS has introduced in the 9 years since the original version was published.

Folks who purchased his original volume should be prepared to put their first copy away and begin to use the newer work at their earliest opportunity." -- Andrew T. Kuligowski, SouthEast SAS Users Group

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#### About the Author

Ron Cody, Ed.D., is a retired professor from the Robert Wood Johnson Medical School who now works as a private consultant and a national instructor for SAS. A SAS user since 1977, Ron has extensive knowledge and innovative style that have made him a popular presenter at local, regional, and national SAS conferences. He has authored or coauthored many books, such as Learning SAS by Example: A Programmer's Guide; SAS Programming by Example; Applied Statistics and the SAS Programming Language, Fifth Edition; The SAS Workbook; The SAS Workbook Solutions; Cody's Data Cleaning Techniques Using SAS Software; Longitudinal Data and SAS: A Programmer's Guide; and SAS Functions by Example, as well as numerous articles in medical and scientific journals.

#### **Users Review**

#### From reader reviews:

#### **Rosemary Taylor:**

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#### **Elizabeth Pipkin:**

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