

```
%MACRO state_freq1;  
OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;  
%LET selected_state = 12;  
PROC FREQ data=brfss_a;  
tables DIABETE3 /list miss  
WHERE _STATE = &selected_state;  
title "PROC FREQ with _STATE";  
run;  
%END state_freq1;  
%state_freq1;  
%MACRO state_freq2(  
OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;  
PROC FREQ data=brfss_a;  
tables DIABETE3 /list miss  
WHERE _STATE = &selected_state;  
title "PROC FREQ with _STATE";  
run;  
%END state_freq2;  
%state_freq2(selected_state=12);
```

```
data brfss_b;  
set brfss_a;  
asthma_flag = 0;  
if ASTHMA3 = 1  
then asthma_flag = 1;  
PROC FREQ data=brfss_b;  
tables asthma_flag * ASTHMA3 /list miss  
flag(native_var=, flag_var=);  
run;  
&data_in;  
flag_var = 0;  
if &native_var = 1  
then &flag_var = 1;  
PROC FREQ data=&data_out;  
tables &flag_var * &native_var /list miss  
run;  
%END make_flag;
```



# SAS

## Macros for Beginners

# Beginners Guide To Sas Macros

**Marco Cascella**

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**Carpenter's Complete Guide to the SAS Macro Language, Third Edition** Art Carpenter, 2016-08-25 Providing both a compendium of reusable and adaptable code and opportunities for deepening your understanding and growing as a SAS programmer this pragmatic example driven reference offers nearly 400 ready to use macros macro functions and macro tools that enable you to convert SAS code to macros define macro variables and more *Mastering SAS Programming for Data Warehousing* Monika Wahi, 2020-10-16 Build a strong foundation in SAS data warehousing by understanding data transformation code and policy data stewardship and management interconnectivity between SAS and other warehousing products and print and web reporting Key Features Understand how to use SAS macros for standardizing extract transform and load ETL protocols Develop and use data curation files for effective warehouse management Learn how to develop and manage ETL policies and print and web reports that meet user needs Book Description SAS is used for various functions in the development and maintenance of data warehouses thanks to its reputation of being able to handle big data This book will help you learn the pros and cons of storing data in SAS As you progress you'll understand how to document and design extract transform load ETL protocols Later you'll focus on how the use of SAS arrays and macros can help standardize ETL The book will also help you examine approaches for serving up data using SAS and explore how connecting SAS to other systems can enhance the data warehouse user's experience By the end of this data management book you will have a fundamental understanding of the roles SAS can play in a warehouse environment and be able to choose wisely when designing your data warehousing processes involving SAS What you will learn Develop efficient ways to manage data input output I/O in SAS Create and manage extract transform and load ETL code in SAS Standardize ETL through macro variables macros and arrays Identify data warehouse users and ensure their needs are met Design crosswalk and other variables to serve analyst needs Maintain data curation files to improve communication and management Use the output delivery system ODS for print and web reporting Connect other products to SAS to optimize storage and reporting Who this book is for This book is for data architects managers leading data projects and programmers or developers using SAS who want to effectively maintain a data lake data mart or data warehouse **SAS Macro Programming Made Easy, Third Edition** Michele M. Burlew, 2014-06-16 This book provides beginners with a thorough foundation in SAS macro programming The macro facility is a popular part of SAS Macro programming is a required skill for many SAS programming jobs and the SAS Advanced Programming Certification Exam tests macro processing concepts Whether you're looking to become certified land a job or increase your skills you'll benefit from SAS Macro Programming Made Easy Third Edition By following Michele Burlew's examples and step by step instructions you'll be able to rapidly perform repetitive programming tasks to pass information between programming steps more easily and to make your programming easier to read Updated for SAS 9.4 this book teaches you the elements of the macro facility macro variables macro programs macro language how to write a macro

program techniques for macro programming tips on using the macro facility how the macro facility fits into SAS and about the interfaces between the macro facility and other components of SAS Beginning macro programmers will learn to write SAS macro programs quickly and efficiently More experienced programmers will find this book useful to refresh their conceptual knowledge and expand on their macro programming skills Ultimately any user interested in automating their programs including analysts programmers and report writers will find Michele Burlew's book an excellent tutorial Michele M Burlew *Analysis of Poverty Data by Small Area Estimation* Monica Pratesi,2015-12-29

A comprehensive guide to implementing SAE methods for poverty studies and poverty mapping There is an increasingly urgent demand for poverty and living conditions data in relation to local areas and or subpopulations Policy makers and stakeholders need indicators and maps of poverty and living conditions in order to formulate and implement policies re distribute resources and measure the effect of local policy actions Small Area Estimation SAE plays a crucial role in producing statistically sound estimates for poverty mapping This book offers a comprehensive source of information regarding the use of SAE methods adapted to these distinctive features of poverty data derived from surveys and administrative archives The book covers the definition of poverty indicators data collection and integration methods the impact of sampling design weighting and variance estimation the issue of SAE modelling and robustness the spatio temporal modelling of poverty and the SAE of the distribution function of income and inequalities Examples of data analyses and applications are provided and the book is supported by a website describing scripts written in SAS or R software which accompany the majority of the presented methods Key features

Presents a comprehensive review of SAE methods for poverty mapping Demonstrates the applications of SAE methods using real life case studies Offers guidance on the use of routines and choice of websites from which to download them Analysis of Poverty Data by Small Area Estimation offers an introduction to advanced techniques from both a practical and a methodological perspective and will prove an invaluable resource for researchers actively engaged in organizing managing and conducting studies on poverty

**Carpenter's Complete Guide to the SAS Macro Language** Art Carpenter,2004 Carpenter thoroughly updates his successful first edition with an extensive collection of new examples and techniques Addressing the composition and operation of the SAS macro facility and the SAS macro language this edition is filled with ready to use macros macro functions and macro tools that will enable readers to effortlessly convert SAS code to macros define macro variables and more *SAS(R) Macro Programming Made Easy, Third Edition* Michele M. Burlew,2018-07-20 This book provides beginners with a thorough foundation in SAS macro programming The macro facility is a popular part of SAS Macro programming is a required skill for many SAS programming jobs and the SAS Advanced Programming Certification Exam tests macro processing concepts Whether you're looking to become certified land a job or increase your skills you'll benefit from SAS Macro Programming Made Easy Third Edition By following Michele Burlew's examples and step by step instructions you'll be able to rapidly perform repetitive programming tasks to pass information between

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