SAS Programming 2: Data Manipulation Techniques

Course Contents

Introduction

- course logistics
- course overview
- SAS syntax review
- navigating the SAS windowing environment (self-study)

Controlling Input and Output

- outputting multiple observations
- writing to multiple SAS data sets
- selecting variables and observations

Summarizing Data

- creating an accumulating total variable
- accumulating totals for a group of data

Reading Raw Data Files

- reading raw data files with formatted input
- controlling when a record loads
- additional techniques for list input (self-study)

Data Transformations

- manipulating character values
- manipulating numeric values
- converting variable type

Debugging Techniques

- using the PUTLOG statement
- using the DEBUG option

Processing Data Iteratively

- DO-loop processing
- SAS array processing
- using SAS arrays
Restructuring a Data Set

- rotating with the DATA step
- using the TRANSPOSE procedure

Combining SAS Data Sets

- using data manipulation techniques with match-merging

Other SAS Languages

- an overview of other languages
- using the SQL procedure
- the SAS macro language

Learning More

- SAS resources
- beyond this course