

# How can I work with data using SAS tutorials?

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June 24, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can I work with data using SAS tutorials?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=150182>

SAS tutorials provide a comprehensive guide on how to effectively work with data using the SAS software. These tutorials cover various topics such as data manipulation, statistical analysis, and data visualization, equipping individuals with the necessary skills to handle data efficiently. By following the step-by-step instructions and hands-on exercises, users can learn how to import, clean, and transform data, as well as perform advanced analytical techniques to gain insights and make informed decisions. Furthermore, SAS tutorials offer a user-friendly interface and a vast library of resources, making it easy for individuals to enhance their data handling abilities and become proficient in utilizing SAS for data analysis.

## Part 1: Working with Variables

Most of the time, you'll need to make modifications to your variables before you can analyze your data. These types of modifications can include changing a variable's type from numeric to string (or vice versa), merging the categories of a nominal or ordinal variable, dichotomizing a continuous variable at a cut point, or computing a new summary variable from existing variables. This section will focus on transformations applied to individual variables, particularly recoding and computing new variables.

Importing DataThis tutorial covers importing data from an external file using PROC IMPORT and the Import Wizard.Computing New VariablesThis tutorial shows how to create new variables from existing variables within the data step. Additionally, built-in functions are briefly covered.Date FunctionsThis tutorial describes the basics of using SAS date functions to create new date-time variables, or extract information from existing date-time variables..

## Part 2: Data Management

Managing a dataset often includes tasks such as sorting data, subsetting data into separate samples, merging multiple sources of data, aggregating of data based on some key indicator, or restructuring a dataset. These types of data management tasks are sometimes called *data cleaning*, *data munging*, or *data wrangling*. This section covers these types of "cleaning" tasks.

Sorting data with PROC SORTSorting a dataset rearranges the rows with respect to one or more variables. This tutorial discusses how to sort data using PROC SORT.Subsetting and splitting datasetsSubsetting creates a new dataset by selecting cases from a parent dataset based on certain criteria. Splitting a dataset allows you to partition a single dataset into multiple files. This tutorial shows how to subset or split a dataset within a data step.Merging DataSometimes, you may be working with data that has been stored in different files. This tutorial talks about several ways of merging datasets within a data step.Transposing data with PROC TRANSPOSETransposing data switches the rows and columns. This tutorial covers how to transpose a dataset using PROC TRANSPOSE.