

260 2011 proc tabulate a getting started tutorial

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What is the Proc Tabulate Proc Means?*

The PROC TABULATE procedure in SAS is used to create tables that summarize and display data. It provides various options for organizing and presenting categorical and continuous variables, allowing for flexible data analysis and reporting.

The Formula for PROC TABULATE

The general syntax for PROC TABULATE is:

```
PROC TABULATE data=datasetname;  
CLASS variable1 variable2 ...;  
VAR variable3 variable4 ...;  
TABLE variable1*variable2*...;
```

What is Tabulate in SAS?

Tabulate in SAS is a command within the PROC TABULATE procedure that creates tables from data. It arranges data into cells based on the specified variables, providing counts, percentages, or other statistics.

PROC TABULATE for Categorical Variables

PROC TABULATE can be used to create tables for categorical variables, displaying counts, frequencies, and percentages. It supports both one-way and multi-way tables, allowing for complex comparisons and cross-tabulations.

Difference between PROC TABULATE and PROC FREQ

PROC TABULATE and PROC FREQ are both used for data summarization, but they have different strengths. PROC FREQ focuses on creating frequency tables and basic statistics, while PROC TABULATE offers more flexibility in table presentation, customization, and handling of missing values.

Difference between PROC REPORT and PROC TABULATE

PROC REPORT generates formatted reports that can include text, tables, and charts. PROC TABULATE is specifically designed for creating tables, allowing for greater control over table formatting and statistical options.

The Three Dimensions of PROC TABULATE

PROC TABULATE operates on three dimensions:

- **Rows:** Represented by the CLASS variables, which categorize the data.
- **Columns:** Represented by the VAR variables, which provide the data values for each category.
- **Tables:** Combinations of rows and columns that form the actual tables.

How to Sum in PROC TABULATE

To sum values in PROC TABULATE, use the SUM function after the VAR variable, as shown below:

```
TABLE variable1*variable2;  
SUM variable3;
```

What PROC TABULATE Excludes

PROC TABULATE excludes missing values by default. To include missing values, use the MISSING option in the CLASS statement.

What is Tabulate Used For?

Tabulate is used to:

- Summarize data by categorical variables
- Display counts, frequencies, and percentages
- Create cross-tabulations
- Generate tables for reporting and analysis

What the Tabulate Command Does

The TABULATE command creates tables from data, using specified variables to categorize rows and columns. It can produce various table formats, including basic counts, cross-tabulations, and summary statistics.

Tabulate Format

Tabulate format refers to the way the table is presented, such as displaying counts, percentages, or both. PROC TABULATE supports custom formatting options for headings, column labels, and cell values.

PROC MEANS

PROC MEANS is used to calculate summary statistics, such as mean, standard deviation, and variance, for numeric variables.

Which PROC Uses a TABLES Statement?

PROC TABULATE uses a TABLES statement to specify the variables used for creating the table.

How to Label Categorical Variables in SAS

To label categorical variables in SAS, use the FORMAT statement and specify a label for each category, as shown below:

```
FORMAT variable1 value1 'Label 1'
value2 'Label 2' ...;
```

How PROC TABULATE Works

PROC TABULATE groups data by the CLASS variables and summarizes the data for each category using the VAR variables. It then creates tables based on the

specified combinations of rows and columns.

Options for PROC TABULATE Order

PROC TABULATE provides various options for controlling the order of rows and columns in the table, including ascending, descending, and alphabetical order.

How to Make Tables in SAS

To make tables in SAS using PROC TABULATE, specify the dataset, CLASS variables, VAR variables, and TABLE statement. Customize the table with formatting options and summary statistics as needed.

How to Add Totals in PROC TABULATE

To add totals to a PROC TABULATE table, use the TOTALS option in the TABLE statement, as shown below:

```
TABLE variable1*variable2 / TOTALS;
```

Which PROC Displays a List of Formats?

PROC CONTENTS displays a list of formats used in a dataset.

PROC TYPE

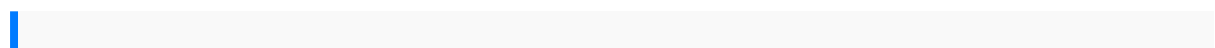
PROC TYPE displays the type of a SAS dataset, such as permanent, temporary, or view.

What does PROC mean in SQL?

PROC in SQL stands for procedure and refers to a set of commands that perform specific tasks.

Why is PROC called PROC?

PROC is an abbreviation for Procedure and refers to a collection of SAS statements that perform a specific function, such as data analysis or reporting.



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