

How do I use Proc Report in SAS? (With Examples)

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Proc Report is a SAS procedure used to create reports from data stored in SAS data sets. It provides a flexible way to create reports that include titles, statistics, tables, and even graphics. It can also be used to summarize data in a variety of ways, such as finding averages, counts, and maximum and minimum values. To use Proc Report, you must first specify the data set you are using, the columns you want to display, and the order in which you want the columns to appear. You can also specify the order in which you want to sort the data and then use the "break" statement to group and summarize the data based on the criteria you set. For example, if you wanted to calculate the average salary for each department, you could use Proc Report to group the data by department and then calculate the average salary for each department.

You can use **proc report** in SAS to generate a report for a dataset in SAS with the exact formatting that you'd like.

This procedure uses the following basic syntax:

```
/*create report*/  
proc report data=my_data;  
run;
```

This will generate a report that displays the rows in a dataset exactly as they appear.

However, you can customize the output of the report in a variety of ways.

For example, we can use the following syntax to create a more customized report:

```
/*create customized report*/  
title 'Player Statistics for Dallas Mavericks';  
proc report data=my_data;  
where team='Mavs';  
column conf team points;  
define conf / display 'Conference' center;  
run;
```

Here's what each statement does:

title creates a title for the report

where filters the dataset to only contain rows where team is 'Mavs'

column specifies which columns to display in the report in a certain order

display specifies the title to use for the column called conf and **center** specifies the text to be centered in the column

The following example shows how to use **proc report** in practice.

Note: Refer to the for a complete explanation of all the ways you can customize a report.

Example: Using Proc Report in SAS

Suppose we have the following dataset in SAS that contains information about various basketball players:

```
/*create dataset*/  
data my_data;  
input team $ points rebounds conf $;  
datalines;  
Celtics 12 5 East  
Celtics 14 7 East  
Celtics 15 8 East  
Celtics 18 13 East  
Mavs 31 12 West  
Mavs 32 6 West  
Mavs 35 4 West  
Mavs 36 10 West  
Mavs 40 12 West  
;  
run;  
  
/*view dataset*/  
proc print data=my_data;
```

Obs	team	points	rebounds	conf
1	Celtics	12	5	East
2	Celtics	14	7	East
3	Celtics	15	8	East
4	Celtics	18	13	East
5	Mavs	31	12	West
6	Mavs	32	6	West
7	Mavs	35	4	West
8	Mavs	36	10	West
9	Mavs	40	12	West

We can use **proc report** in the following manner to print the entire dataset as it appears:

```
/*create report that displays entire dataset*/
proc report data=my_data;
run;
```

team	points	rebounds	conf
Celtics	12	5	East
Celtics	14	7	East
Celtics	15	8	East
Celtics	18	13	East
Mavs	31	12	West
Mavs	32	6	West
Mavs	35	4	West
Mavs	36	10	West
Mavs	40	12	West

The report simply contains the entire dataset.

However, we can use **proc report** to generate a customized report by using the following syntax:

```
/*create customized report*/
title 'Player Statistics for Dallas Mavericks';
```

```
proc report data=my_data;  
where team='Mavs';  
column conf team points;  
define conf / display 'Conference' center;  
run;
```

Player Statistics for Dallas Mavericks

Conference	team	points
West	Mavs	31
West	Mavs	32
West	Mavs	35
West	Mavs	36
West	Mavs	40

Notice that this report contains the following differences compared to the original report:

This report has a title

This report only contains rows where team is 'Mavs'

This report only contains the conf, team, and points columns

This report uses 'Conference' as the title for conf and center-aligns the values in the conf column

This is just a simple example of how to create a customized report using **proc report** in SAS.

Feel free to explore the to see how you can further customize the output and generate a report that appears exactly how you'd like in SAS.

The following tutorials explain how to perform other common tasks in SAS: