

# How can Proc Report be used in SAS? Can you provide examples?

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## RECOMMENDED CITATION

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Proc Report is a powerful tool in SAS (Statistical Analysis System) used for creating highly customizable and presentable tabular reports. It allows users to summarize and display data from one or more data sets, with the ability to add calculations, statistics, and formatting options. This feature is often used in data analysis and reporting tasks, such as financial reporting, business intelligence, and research analysis. For example, Proc Report can be used to generate a report showing sales performance by region, with subtotals and percentages, as well as incorporating graphs and charts for visual representation. It provides a flexible and efficient way to organize and present data in a professional manner.

## Use Proc Report in SAS (With Examples)

**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 reportdata=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 reportdata=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 printdata=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: