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| **PROC PRINT DATA=DATASETNAME**  **NOOBS \*used to avoid printing observation column while printing;**  **DOUBLE \*print double spacing in SAS Output and not in SAS Report;** | | **Scope** |
| **Sum** <Col Name>; | Calculate the sum of the column | Local |
| **VAR** <Col Name>; | Mention the variable and its ***order*** of printing | Local |
| **Label** <Col Name>=’’; | Define label name for a column  Can mention up to ***256 char***  ***Can be defined in single or multiple lines*** | **Local** |
| **Where** <column condi>  **CONTAINS** ‘str’;  **?** ‘str’;  **IN**(‘str1’,’str2’); | Defines the column condition  ***=, ^=, >, <, >=, <=***  ***CONTAINS*** *is string comparison*  ***AND, OR*** *operator used along with col name each time*  ***IN*** *operator is used as SQL style in comparison.* | Local |
| **ID** <Col Names>; | Act as a primary key, ***replace OBS*** column without explicitly mention of NOOBS.  ID used along with ***Var*** will ***display*** a ***column twice***. | Local |
| **SUM** <Col Name>; | Will provide the total of the column specified. | Local |
| **BY** <Col Name>; | Col Name should be ***same as one that is sorted before*** using this. ***Subset results***. | Local |
| **BY** <Col Name1>;  **ID** <Col Name1>; | When ID used along with BY it will:   1. ***Supress OBS*** column 2. ID/BY variable name is printed in left col 3. Each ***ID/BY value is printed only once*** at the start of each by group and on the line, that has group sub-total. | Local |
| **By** <Col Name1>;  **PAGEBY**<Col Name1>; | Mostly used along with sum-by-id.  ***Column used in PAGEBY should be same as one used in BY***.  Used to ***print each sub-total on a separate page***. | Local |
| **FORMAT** <Col Name>; | When defined ***inside PROC it scopes within it***. To make it ***permanent FORMAT or Labels*** need ***to be defined in DATA step*** | Local/Global |
| **TITLE** ‘str1’; | Generally, ***need to be defined outside a PROC step***.  However, it can be used inside PROC too  ***TITLE is global.*** Once defined will stay forever until title statement is modified, cancelled or end SAS session.  ***Cancel of title*** is done by ***title;*** | Global |
| **FOOTNOTE** ‘str2’; | Used to print note below a table/graph  It is same as TITLE function, up to ***10 footnotes can be defined*** in SAS.  ***Cancel of footnote*** is done by:  ***Footnote;*** | Global |

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| **PROC SORT** **DATA=DATASETNAME**  **OUT=DATASETNAME \*o/p SAS dataset** | |  |
| by <Col Name>;  by descending <col1> | Sorted by the column mentioned, sort takes place from right to left columns mentioned.  If used with descending it will apply to ***column which is immediately after it***, rest of the other columns will be sorted in ascending order. | Local |
| NOTSORTED; | To explicitly mention not to sort if the ***values are equal*** based on by condition. | Local |
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