Steps for Creating a SAS Datasets				
1	LIBNAME libref ' <path>';</path>	Reference a SAS data library	Global	
2	FILENAME fileref ' <path>';</path>	Reference (Temp) an external file	Global	
3	DATA 'SASDataSetName';	Name a SAS data set		
4	INFILE 'file name/fileref' OBS=10;	Identify an external file using INFILE statement OBS mention the range till which data needs to be read. Can be used in data and proc print. Used to verify Data reading without affecting RAM space much.		
5	INPUT <informats>;</informats>	Describe data		
6	RUN;	Execute the DATA step		
7	PROC PRINT Data= <ds>;</ds>	List the data		
8	RUN;	Execute the final program step		

Column Style: [Standard Data + Well Ordered in Column]

1	-10	20	30	4050	-6090
124	61	Mod	Male	Pradeep	United States
123	76	Ded	Female	Sruthi	India
142	89	Reg	Male	Sathvamurthy	United Kingdom

PROC PRINT DATA=D	Scope	
NOOBS *used to avoid printing obser	-	
DOUBLE *print double spacing in SAS		
(OBS=3) * Print only the first 3 observ		
Sum <col name=""/> ;	Calculate the sum of the column	Local
VAR <col name=""/> ;	Mention the variable and its <u>order</u> 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=""></column>	Defines the column condition	Local
CONTAINS 'str';	=, ^=, >, <, >=, <= CONTAINS is string comparison	
? 'str';	AND, OR operator used along with col	
IN('str1','str2');	name each time	
114(30.2)30.2)	IN operator is used as SQL style in	
	comparison.	
ID <col names=""/> ;	Act as a primary key, <i>replace OBS</i> column	Local
	without explicitly mention of NOOBS. ID used along with <i>Var</i> will <i>display</i> a	
	column twice.	
SUM <col name=""/> ;	Will provide the total of the column specified.	Local
BY <col name=""/> ;	Col Name should be same as one that is	Local
	sorted before using this. Subset results.	Lacel
BY <col name1=""/> ;	When ID used along with BY it will: 1. Supress OBS column	Local
ID <col name1=""/> ;	ID/BY variable name is printed in left col	
	3. Each <i>ID/BY value is printed only</i>	
	once at the start of each by group	
	and on the line, that has group sub-total.	
Du «Col Nomo 1»	Mostly used along with sum-by-id.	Local
By <col name1=""/> ;	Column used in PAGEBY should be same	Local
PAGEBY <col name1=""/> ;	as one used in BY.	
	Used to <i>print each sub-total on a</i>	
	separate page.	Local/Clab-I
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/ <mark>Global</mark>
TITLE 'str1';	Generally, need to be defined outside a	Global
iiiLL Sull,	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;	
FOOTNOTE 'str2';	Used to print note below a table/graph	Global
100111012 3012,	It is same as TITLE function, up to 10	
	footnotes can be defined in SAS. Cancel of footnote is done by: Footnote;	

PROC SORT DATA=DA		
OUT=DATASETNAME		
by <col name=""/> ; by descending <col1></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

PROC FORMAT LIB=library				
LIBRARY/LIB *Defines the SAS library that needs to be referred;				
FMTLIB *print all the user defined format present in the Library mentioned;				
1	LIBNAME library ' <path>';</path>	Reference a SAS data library	Permanent Permanent	
2	PROC FORMAT LIB=library FMTLIB;	Library can be the SAS library referred above or it can be a catalog like <i>library.catalog.</i> FMTLIB will list all the user defined format present in the library. formats.sas7bcat file is created in the path mentioned in library.	Permanent	
3	Value <format-name></format-name>	Format name must begin with <i>\$ for Char</i> var Cannot be > 8 char in length Cannot be the name of existing SAS format Cannot end with a number Does not end with a period when defined	Permanent	
	Range1='label1'	Range1= Actual Column Data Label1= Description of Range1 Numeric => 102='Manager' Character => 'A'='Good Performance' Range => low-<12='Not Teen Age'	Permanent	
	Range2='label2';	Always the last Range must be ended with; which implies SAS that PROC FORMAT statement ends.	Permanent	
4	PROC FORMAT;	This format will be created in the work directory which means temporary.	Temporary	
	Value <format-name></format-name>	Scope within that SAS session only	Temporary	
	Range1='label1'	Scope within that SAS session only	Temporary	
	Range2='label2';	Scope within that SAS session only	Temporary	
5	PROC CATALOG;	You can delete the user defined format	Permanent	