

CLASS: 2

SAS Tutorial

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Topic: SAS Variable

Numeric	Character
It can hold 0-9,integer number, decimal number	It can hold any character values, such as letter or number, special character and "" (blank)
Right align	Left align
Missing Value/Blank assign as . (dot)	Missing Value/Blank assign as " "(Space)
Default length is 8 bytes	Default length is 8 bytes
16-17 digit number when 8 bytes	8 bytes hold 8 character
Minimum length is 3 bytes	Minimum length is 1 bytes
Maximum length is infinite (depend on RAM Size)	Maximum length is 32767

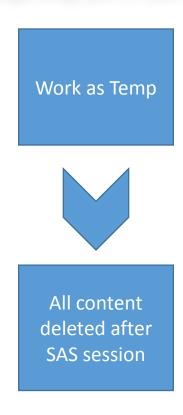
Topic: SAS Naming Convention for Variable and Data set

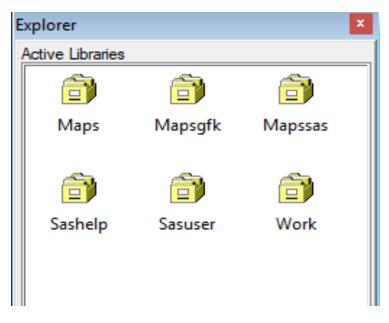
- 1. Name can hold maximum **32** character.
- 2. Name should begin with _ (under score) or letter and seconds onwards letter can be _ (under score),letter or numeric.
- 3. Special Character not permitted except _ (under score).
- 4. SAS name is case insensitive ,it may be upper, lower or prop case.

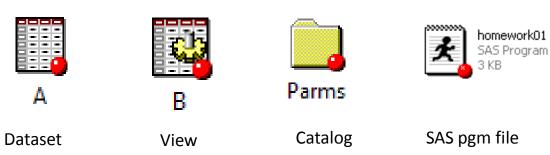
test	✓
test123	✓
_test	✓
@test	*
4test	×
Test&	*
TEST	✓
_12test	✓

Library:

- SAS library is simply a collection of SAS files that are stored in the same folder or directory on your computer. Other files can be stored in the same folder or directory, but only the files that have SAS file extensions are recognized as part of the SAS library.
- Depending upon on your need SAS library is of two types :







Presented By: Shashi Kumar YouTube Channel: https://lnkd.in/fNSUTDE Sashelp or lib ref are permanent



Content retained even after SAS session

Library: Temporary to permanent

Syntax:

Libname < libref > < engine > path;

```
i.e. Libname sk "D:\Users\703215742\Desktop\SAS CLASS";
```

This LIBNAME statement specifies sk as a reference to a SAS library. The EXCEL engine specifies the engine that supports the connection to the file type .XLSX.

```
Libname sk EXCEL "D:\Users\703215742\Desktop\SAS CLASS\file.xlsx";
```

Libname sk "D:\Users\703215742\Desktop\SAS CLASS\file.xlsx";

Access Tera Data in SAS:

libname sk teradata user="userid" password="password" mode=teradata server="servername" connection=global dbmstemp=yes;

- Naming Convention

- 1. Name can hold maximum 8 character.
- 2. Name should begin with _ (under score) or letter and seconds onwards letter can be _ (under score),letter or numeric.
- 3. Special Character not permitted except _ (under score).
- 4. SAS name is case insensitive ,it may be upper, lower or prop case.

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Library: Temporary to Permanent

Temporary

to

Permanent Library

Data one;

Set sashelp.class;

Run;



Libname sk "D:\Users\7032xxxxx\Desktop\SAS CLASS";

Data sk.two;

Set sashelp.class;

Run;



Dataset **one** is stored in temporary library "**Work**". (All content deleted after SAS session)

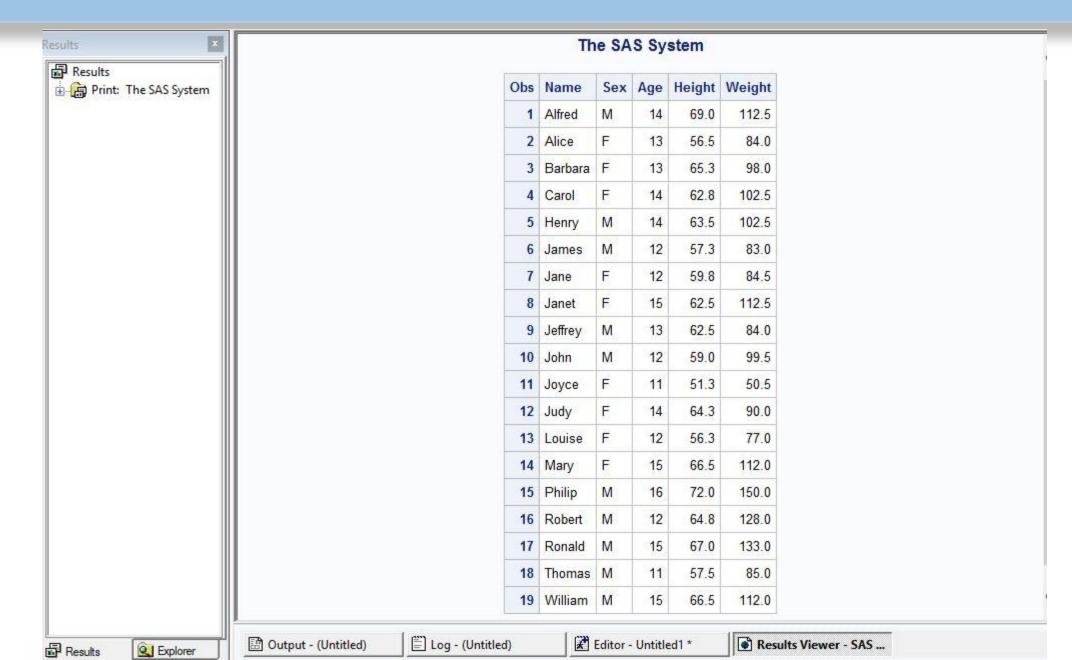
Dataset **two** is stored in Permanent library "**sk**". (Content retained even after SAS session)

Proc Print :-

```
Syntex:-
proc print data =input data <option>;
Var var1 var2...varn;
Id var1 var2 ...varn;
run;
Var: It define the variables and observation in o/p window.
Id: It suppress the observation column and id variable comes the first variable in o/p window.
Options:-
Noobs:- It suppress the observation column in the proc print o/p.
Double:- It provides space between the observation.
Obs=n:- It give the first n observation from the dataset.
Examples:-
proc print data =sashelp.class;run;
proc print data =sashelp.class; var age sex;run;
proc print data =sashelp.class; id age;run;
proc print data =sashelp.class double ;run;
proc print data =sashelp.class (obs=10);run;
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```

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Proc Print: proc print data = sashelp.class;run;



Proc Contents:-

proc contents data=sashelp._all_; run;

proc contents data=sashelp.class nods; run;

```
Syntax:-
  proc contents data=input data <option>;run;
   It display description portion of dataset by default by show the result in three parts.
     Attributes
     Engine/Host
     List of Variables
Examples:-
   proc contents data=sashelp.class; run;
   proc contents data=sashelp.class varnum; run;
```

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Proc Contents:-

Data Set Name	SASHELP.CLASS	Observations	19
Member Type	DATA	Variables	5
Engine	V9	Indexes	0
Created	09/06/2017 21:55:32	Observation Length	40
Last Modified	09/06/2017 21:55:32	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label	Student Data		
Data Representation	WINDOWS_64		
Encoding	us-ascii ASCII (ANSI)		

	Engine/Host Dependent Information	
Data Set Page Size	65536	
Number of Data Set Pages	1	
First Data Page	1	
Max Obs per Page	1632	
Obs in First Data Page	19	
Number of Data Set Repairs	0	
ExtendObsCounter	YES	
Filename	C:\Program Files\SASHome\SASFoundation\9.4\core\sashelp\class.sas7bda	
Release Created	9.0401M5	
Host Created	X64 SR12R2	

Owner Name	BUILTINVAdministrators	
File Size	128KB	
File Size (bytes)	bytes) 131072	

Alphabetic List of Variables and Attributes			
#	Variable	Туре	Len
3	Age	Num	8
4	Height	Num	8
1	Name	Char	8
2	Sex	Char	1
5	Weight	Num	8

Exercise:-

1. Create Permanent Library

Libname sk "D:\Users\7032xxxxx\Desktop\SAS CLASS";

Data one;

Set sashelp.class; Data **sk.two**;

Run; Set sashelp.class;

Run;

2. proc print data =sashelp.class;run;

3. proc contents data=sashelp.class; **run**;

Thank You ...