Summary of SAS Dictionary Tables and Views

- Notes:

 [1] → Indicates a variable that helps uniquely identify an observation

 [2] Shaded rows indicate a variable unique to SAS 9.1. Items in *italics* are unique to SAS 9.1.3.

 [3] Not all tables are shown.

dictionary.	catalo	gs sashelp.vcatalg
→ libname	\$8	Library name [upper case]
→ memname	\$32	Member name [upper case]
memtype	\$8	Member type [CATALOG]
→ objname	\$32	Object name [upper case]
→ objtype	\$8	Object type [SCL FRAME FORMAT MACRO]
objdesc	\$256	Object description
created	num	Date created [DATETIME informat/format]
modified	num	Date modified [DATETIME informat/format]
alias	\$8	Object alias [upper case]
level	num	Library concatenation level [0, 1, 2,]

dictionary.	dictionary.columns ¹ sashelp.vcolumn ¹		
→ libname	\$8	Library name [upper case]	
→ memname	\$32	Member name. See MEMNAME note at bottom of this page for details.	
→ memtype	\$8	Member type [DATA VIEW]	
→ name	\$32	Column name [case as-is from data set creation except for transport files (always upper-cased)]	
type	\$4	Column type [char num]	
length	num	Column length	
npos	num	Column position [offset within observation, e.g., 0, 1, 20]	
varnum	num	Column number in table [1, 2, 3,]	
label	\$256	Column label	
format	\$16	Column format [DATE9. \$HEX22.]	
informat	\$16	Column informat [MMDDYY10. 8.2]	
idxusage	\$9	Column index type [SIMPLE COMPOSITE -BOTH]	
sortedby	num	Key sequence order [0, 1,] Negative if descending	
xtype	\$12	Extended type	
notnull	\$3	Not NULL? [no yes]	
precision	num	Precision	
scale	num	Scale	
transcode	\$3	Did source/target encoding differences require character remapping (transcoding)? [no/yes]	

dictionary.dictionaries			shelp.vdctnry
→ memname	\$32	Dictionary table name [uppe	er case]
memlabel	\$256	Dictionary Table label	
→ name	\$32	Column name [upper case]	
type	\$4	Column type [char num]	
length	num	Column length	
npos	num	Column position [offset witl >= 0]	hin observation.
varnum	num	Column number in table [1,	2, 3,]
format	\$49	Column format [may include	e width, period]
informat	\$49	Column informat [may inclu	ide width, period]

dictionary.engines		sashelp.vengine	
→ engine	→ engine \$8 Engine name [upper c		ase]
alias	\$8	Alias [upper case]	
description	\$40	Description	
preferred	\$3	Preferred? [yes no]	
properties	\$1024	Engine dialog propert	ies

If a SAS data set has read password protection (tables.prot position 1 = R), no variables from the data set will be displayed in this table.

dictionary.extfiles		s sashelp.vextfl
→ fileref	\$8	Fileref [upper case] [duplicated if files are concatenated]
→ xpath	\$1024	Path name [case preserved]
xengine	\$8	Engine name [upper case]

dictionary.formats		s sashelp.vformat
→ libname	\$8	Library name [upper case] [source='C']
→ memname	\$32	Member name [upper case] [source='C']
→ path	\$1024	Path name [case preserved] [source='U']
→ objname	\$32	Object name [upper case] [e.g. GROUP, TYPE] [source='U', 'C']
→ fmtname	\$32	Format name [upper case] [e.g., GROUP, \$TYPE] [no decimal point]
→ fmttype	\$1	Format type [F (format) I (informat)]
source	\$1	Format source [U (user) B (built-in) C (from a catalog, i.e., created by PROC FORMAT)]
minw	num	Minimum width [>= 0]
mind	num	Minimum decimal width [>= 0]
maxw	num	Maximum width [>= 0]
maxd	num	Maximum decimal width [>= 0]
defw	num	Default width [>= 0]
defd	num	Default decimal width [>= 0]

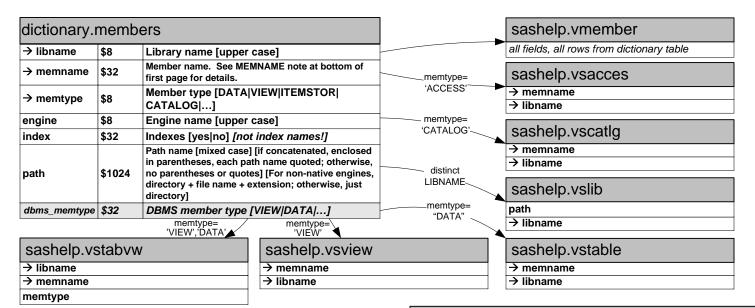
dictionary.	index	es ¹ sashelp.vindex ¹
→ libname	\$8	Library name [upper case]
→ memname	\$32	Member name [upper case]
memtype	\$8	Member type [DATA]
→ name	\$32	Column name [mixed case]
idxusage	\$9	Column index type [COMPOSITE SIMPLE]
→ indxname	\$32	Index name [mixed case]
→ indxpos	num	Position of column in concatenated key. Missing if not concatenated key.
nomiss	\$3	NOMISS option [yes blank]
unique	\$3	UNIQUE option [yes blank]

dictionary.libnames		nes sashelp.vlibnam
→ libname	\$8	Library name [upper case]
engine	\$8	Engine name
→ path	\$1024	Path name [blank for some engines: URL,]
→ level	num	Library concatenation level [0, 1, 2,]
fileformat	\$8	Default file format
readonly	\$3	Read only? [no yes]
sequential	\$3	Sequential? [no yes]
sysdesc	\$1024	System information description
sysname	\$1024	System information name
→ sysvalue	\$1024	System information value

dictionary.macros		sashelp.vmacro
→ scope	\$9	Macro scope [GLOBAL AUTOMATIC macro name (if local)]
→ name	\$32	Macro variable name [upper case]
→ offset	num	Offset into macro variable [0, 200,]. Note that the beginning of the value spanning observations may not always be stored with OFFSET=0.
value	\$200	Macro variable value [case and spacing are preserved]

MEMNAME Notes:

- Native SAS engines store in upper case; non-native engines (access, excel, et al.) preserve case and spacing. Using the EXCEL engine, for example, program references to sheet name "Sheet One" must be "Sheet One\$"n.
- Generation data sets are stored as memname[#nnn] (e.g., mast, mast#001)



dictionary.goptions		ns sashelp.vgopt
→ optname	\$32	Option name [upper case] Enter full name, rather than alias
setting	\$1024	Option setting [mixed case]
optdesc	\$160	Option description
→ level	\$8	Option location [GRAPH]
group	\$32	Option group [blank]
opttype	\$8	Option type [boolean char num]
	eache	un vallent

sashelp.vallopt all fields, all rows from dictionary table

dictionary.options		sashelp.voption
→ optname	\$32	Option name [upper case] Enter full name, rather than alias: device, errorabend, initstmt, linesize, pagesize.
setting	\$1024	Option setting [mixed case]
optdesc	\$160	Option description
→ level	\$8	Option location [Portable Host]
group	\$32	Option group [upper case] [MACRO SORT ENVFILES]
opttype	\$8	Option type [boolean char num]

dictionary.titles		sashelp.vtitle
→ type	\$1	Title location [T F]
→ number	num	Title number [1 10]
text	\$256	Title text [case preserved] Rendering information (h=1 j=l etc.) is removed. Macro variables are resolved.

dictionary.styles		sashelp.vstyle
→ libname	\$8	Library name
→ memname	\$32	Member name
→ style	\$32	Style name [case preserved] V9: two-level style path V8: one-level style identifier
crdate	num	Date created [DATETIME informat/format]

dictionary.views		sashelp.vview
→ libname	\$8	Library name [upper case]
→ memname	\$32	Member name [upper case]
memtype	\$8	Member type [VIEW]
engine	\$8	Engine name [SASESQL SASDSV]

dictionary.tables Values in {braces} are typical settings for non-native (ACCESS, EXCEL) or REMOTE libraries.						
→ libname [1]	\$8	Library name [upper case]				
→ memname	\$32	Member name. See MEMNAME note at botto first page for details.	m of			
→ memtype [1]	\$8	Member type [DATA VIEW]				
memlabel	\$256	Dataset label	{}			
typemem	\$8	Dataset type [upper case] [blank MSGFILE ATTLIST]				
crdate	num	Date created [DATETIME informat/format]	{.}			
modate	num	Date modified [DATETIME informat/format]	{.}			
nobs	num	Number of observations	{.}			
obslen	num	Observation length	{0}			
nvar	num	Number of variables				
protect [1]	\$3	Type of password protection [position 1: - R position 2: - W position 3: - A] See footnote 1, page 1 for impact of read PW	. {}			
compress	\$8	Compression routine [NO CHAR BINARY]	{NO }			
encrypt	\$8	Encryption [NO YES]	{NO }			
filesize	num	File size [>= 0]	{0}			
npage	num	Number of pages [0, 1,]	{0}			
pcompress	num	Percent compression [0, 1,] [value stored truncated integer - can be negative]	s {.}			
reuse	\$3	Reuse space [no yes]	{no}			
bufsize	num	Buffer size	{0}			
delobs	num	Number of deleted observations [>= 0]	{0}			
indxtype	\$9	Type of indexes [blank SIMPLE COMPOSITE	вотн]			
datarep	\$32	Data representation				
reqvector [1]	\$24	Requirements vector [\$HEX informat, format]				
nlobs	num	Number of logical observations [. if view, else]	e 0, 1, {.}			
maxvar	num	Length of longest variable name				
maxlabel	num	Length of longest label	{0}			
maxgen	num	Maximum number of generations	{0}			
gen	num	Generation number [., 1, 2,]	{.}			
attr	\$3	Data set attributes	{}			
sortname	\$8	Name of collating sequence	{}			
sorttype	\$4	Sorting type [S=sort verified SR=sort w. NODUPREC SK=sort w. NODUPKEY]	{}			
sortchar	\$8	Character sorted by [ANSI ASCII]	{}			
datarepname	\$170	Data representation name [blank if view]	{}			
encoding	\$256	Data encoding [blank if view] {d	efault}			
dbms_memtype	\$8	DBMS member type [VIEW TABLE] E if not using DBMS engine (e.g., access, excel)	Blank			

^[1] If a SAS data set has read password protection (variable PROT position 1 = R), only these variables will be populated.