



Quanticate

CONFIDENCE COMES FROM QUALITY

SAS Data Set Utility with Excel Output

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The Set Up

```
*** Set up path for project, protocol and data sets to use ***;  
%let prot_path = /app/bin/project/; ** Unix path to the project **;  
%let protocols = A1201; ** Protocols to check, if blank all in directory **;  
%let ignore_protocols = ; ** Protocols to skip **;  
%let ignore_datasets = MT1 MT2; ** Datasets to skip **;  
%let data_path = data; ** Dataset library to use: data or derived_data **;  
%let cutdt = "06MAY2011:07:06:00"dt; ** Flag modification dates prior to **;  
%let outxml = ~/matrix_&prot_path._&data_path..xml; ** Output file name and  
path **;
```

List the files

The macro builds a list of protocols to be checked based on the macro variable settings, then using SAS Help files, reads in the data set details for those specified files, excluding the “ignored” datasets.

The data sets containing this meta data for each file are then appended into a single data set named “Matrix”.

```
ods tagsets.excelxp options(  
  absolute_column_width="15, %sysfunc(repeat(%str(16, 10, 10,), 50)) 10"  
  embedded_titles='yes'  
  print_header("&sysdate9.: dataset (/&data_path) matrix"  
  autofilter='yes'  
  frozen_headers='yes'  
  frozen_rowheaders='1'  
  sheet_label="Matrix"  
  sheet_name="Matrix"  
)  
file("&outxml." style=statistical  
;
```

Proc Report



```
proc report data=rep nowd missing headline headskip split='|';  
  column protocol memname, ( modate nlobs nvar dummy) ;  
  define protocol/group order=data width=32 id ;  
  define memname/across ;  
  define modate/display style=[background=cutdt.];  
  define nlobs/display "Number Records" style=[background=clrs.];  
  define nvar/display "Number Variables" style=[background=clrs.];  
  define dummy/noprint;  
run;
```

Format Colouring

```
proc format;
  value clrs 0 = '#FFCC00'
             . = '#FF6600'
  0< - high = '#FFFFFF'
;
  value rnderr 0 = '#FFFFFF'
               . = '#FF6600'
  0< - high = '#FF00FF'
;
  value cutdt low - <&cutdt = '#FF0000';
```

Hex Code	Colour
#FFCC00	Yellow
#FF6600	Orange
#FFFFFF	White
#FF0000	Red
#FF00FF	Pink
#FFFF99	Pale Yellow
#CCFFFF	Pale Blue

Horizontal List



Protocol	AE			AUA		
	Date Modified	Number Records	Number Variables	Date Modified	Number Records	Number Variables
A1201	06MAY11:06:46:38	628	68	06MAY11:06:46:38	2959	62

Vertical List

```
ods tagsets.excelxp options(  
  absolute_column_width="12, 10, 16, 10, 10, 16, 20, 10, 10, 10, 10, 10, 10"  
  embedded_titles='yes'  
  print_header="&sysdate9.: dataset (/&data_path.) matrix (&sysdate.)"  
  autofilter='yes'  
  frozen_headers='yes'  
  frozen_rowheaders='2'  
  sheet_name="List"  
  sheet_label="List"  
);
```

```
proc report data=rep nowd headline headskip missing;  
  column protocol memname modate nlobs nvar z;  
  define protocol/display "Study" style=[background=#CCFFFF];  
  define memname/display "Dataset" style=[background=#FFFF99];  
  define modate/display style=[background=cutdt.];  
  define nlobs/display "Number Records" style=[background=clrs.];  
  define nvar/display "Number Variables" style=[background=clrs.];  
  define z/display noprint computed;  
  compute z;  
    if memname eq 'RAND_ERR' then do;  
      call define('NLOBS', 'style', 'style=[background=||put(nlobs, rnderr.)||]');  
    end;  
  endcomp;  
run;
```

List



Study	Dataset	Date Modified	Number Records	Number Variables
A1201	AE	06MAY11:06:46:38	628	68
A1201	AUA	06MAY11:06:46:38	2959	62
A1201	BLD	06MAY11:06:46:39	6203	64
A1201	BP	06MAY11:07:15:39	5070	33
A1201	CD	06MAY11:07:05:19	1097	58
A1201	COM	06MAY11:06:46:40	0	0
A1201	CT	06MAY11:07:05:19	470	43
A1201	DE	06MAY11:06:39:07	609	76
A1201	ECG	01AUG08:04:22:13	503	37
A1201	EFF	06MAY11:07:15:38	2133	44
A1201	EFF2	06MAY11:07:15:39	418	43
A1201	LB	06MAY11:07:21:34	32020	50
A1201	MH	06MAY11:07:10:45	1168	30
A1201	PD	06MAY11:06:46:40	1168	30
A1201	PE	06MAY11:07:10:44	7372	42
A1201	PK	06MAY11:07:05:19	4022	46
A1201	QE	06MAY11:07:10:45	1229	49
A1201	RANDO	06MAY11:07:15:39	418	15
A1201	RAND_ERR	06MAY11:09:11:56	1	6
A1201	SB	06MAY11:06:39:30	609	36
A1201	SCDG	01AUG08:04:30:48	522	38
A1201	TD	06MAY11:07:15:39	839	111

Questions?