

DATA Step

Can I create an Excel Workbook containing the metadata for all datasets in a library?

The metadata for datasets can be obtained using the DATASETS procedure with the CONTENTS statement and directing the output to a dataset. Use ODS TAGSETS.EXCELXP (or ODS EXCEL in SAS® 9.4) to direct the output to a workbook using PROC PRINT for a simple listing report.

Use options to create a separate worksheet for each dataset in the library.

```
proc datasets lib = sashelp nolist ;
    contents data = _all_
              out = work.dsets
              ;
quit ;

proc format ;
    value vartyp 1 = 'Num '
              2 = 'Char'
              ;
run ;

ods tagsets.excelxp file = 'C:\documents\datasets.xls'
                    options (sheet_label = ' ' sheet_interval = 'bygroup') ;

proc print data = work.dsets noobs ;
    by memname ;
    pageby memname ;
    format type vartyp. ;
    var memname
        name
        type
        length
    ;
run ;

ods _all_ close ;
```

Metadata can also be obtained using the dictionary tables from PROC SQL. Use ODS along with PROC REPORT for more control over style and layout.

```
proc sql ;
    create table dsets as
    select  memname
           ,name
```

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```
,propcase(type) as type label = 'Type'
,length
,lowercase(format) as format label = 'Format'
from dictionary.columns
where libname = 'SASHELP'
order by memname
;
quit ;

ods tagsets.excelxp file = 'C:\documents\datasets.xls'
                    options (sheet_label      = 'Dataset '
                            sheet_interval    = 'bygroup'
                            suppress_bylines  = 'on'
                            ) ;

proc report data = work.dsets nowd style(report) = [fontsize = 10pt]
                                style(column) = [fontsize = 10pt wi
dth = 100]
                                style(header) = [fontsize = 10pt]
                                ;
  column memname
         name
         type
         length
  format
         ;
  define memname / order ;
  break after memname / page summarize ;
  by memname ;
run ;

ods _all_ close ;
```

The ORDER usage type suppresses the repetition of the dataset name in the MEMNAME column; the SUMMARIZE keyword on the BREAK statement causes the analysis variable (LENGTH) to be SUMmed.

Unique solution ID: #1006

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