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 he 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 = 'bygro
up') ;

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 conrol over style and layout.

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


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```
        ,propcase(type)  as type   label = 'Type'
  ,length
  ,lowcase(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.

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