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/*************************************************************************/
/* PROD PROGRAM:  ./MissFMT.sas
/* WORK PROGRAM:  ./MissFMT.sas
/*
/* PURPOSE:       Provide a library reference and the macro will search through
/*                every dataset in that library for missing formats SAS will
/*                print out the dataset(s), variable(s), and missing format(s),
/*                as well as a summary of the missing format(s)
/*
/* SOURCE PRGM:   none
/* INPUT:         NA
/* OUTPUT:        NA
/* MACROS USED:   none
/* EXEMPTIONS:    none
/*
/* AUTHOR:        Jeffrey Lavenberg
/* CREATION DATE: 12/03/2015
/*
/* NOTES:         If needed, the fmtsearch option can be updated and the %MissFMT
/*                macro can be run again
/* MODIFICATIONS: none
/*************************************************************************/

%macro MissFMT(__library__);
    /* Create a new dataset with information from the columns dictionary table */
    proc sql;
        create table __MissFMT__ as
        select distinct a.memname label="Dataset Name", a.name label="Variable Name", a.format label="Format Name"
        from dictionary.columns a
        where a.libname=upcase("&__library__") and
              /* Use prxchange function to get rid of all alphanumerics after "." */
              prxchange('s/[0-9]*$//',1,strip(prxchange('s/\..*//',1,a.format))) ne " " and
              /* Use prxchange funtion to remove all numbers at the end of the format name */
              prxchange('s/[0-9]*$//',1,strip(prxchange('s/\..*//',1,format))) not in (
                select fmtname
                from dictionary.formats
              )
        ;
    quit;

    /* If the PROC SQL code came up empty, display note */
    %if &sqlobs=0 %then %put NOTE: No missing formats in library: &__library__;
    %else %do;
```

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        /* Print findings */
        title1 "Output from MissFMT macro";
        proc print data=__MissFMT__ noobs label;
            id memname;
            by memname;
        run;

        /* Clean up title statement and remove temporary dataset */
        title1;
        proc datasets nolist;
            delete __MissFMT__;
        run;
    %end;
%mend MissFMT;

/* Example calls */
%MissFMT(perm);
%MissFMT(work);
```