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/*************************************************************************************/
/* Program Name: STAT 604 HW#9                                                       */
/* Date Created: 10/18/2021                                                          */
/* Author: Jack Rodoni                                                               */
/* Purpose: STAT 604 HW#8                                                            */
/* Date Modified: 10/21/2021                                                         */
/* Location: /home/u59649056/Homeworks/JRodoni_Homework09.sas                        */
/*************************************************************************************/

/* 1.) Housekeeping to clear any titles and footnotes and to turn off the printing of procedure titles*/

TITLE;
FOOTNOTE;
ods noproctitle;

/* 2.) Assign a librefnamed mylibto thenew foldercreated above.  Assign a libref to a */
/* new Excel file with a name of your choosing that will also be located in the mylib folder.*/
/* Create a file ref to the COVID Activity csv file.  Create filerefs to the two PDF output */
/* files.  The files will have names like FKincheloe_HW09_OutputA.pdf and FKincheloe_HW09_OutputB.pdf. */
/* Create another file ref for an xlsx file that will contain your output.  Use a name for the file */
/* like FKincheloe_HW09_outputx.xlsx.  (Use your own initial and name in place of FKincheloe.)*/
/* File refs must containthe full path and name of the file.*/

libname mylib "/home/u59649056/Homeworks/mylib";
libname coviddat XLSX "/home/u59649056/Homeworks/mylib/coviddata.xlsx";
filename covidact "/home/u59649056/my_shared_file_links/fkincheloe/stat604/Fall2021/COVID Activity.csv";
filename pdfA "/home/u59649056/Homeworks/mylib/JRodoni_HW09_OutputA.pdf";
filename pdfB "/home/u59649056/Homeworks/mylib/JRodoni_HW09_OutputB.pdf";
filename covidOut "/home/u59649056/Homeworks/mylib/JRodoni_HW09_output.xlsx";

/* 3.) Write a SAS step that will use the csv file as input and create a permanent data set in the mylib*/
/*     library.  Write the step so that it will overwrite the data set if it already exists.  */
/*     NOTE:  Due to the size of the file, it could take a minute or more for this step to run.*/

options obs=max;
proc import datafile= "/home/u59649056/my_shared_file_links/fkincheloe/stat604/Fall2021/COVID Activity.csv"
    DBMS = CSV
    OUT = mylib.covid
    Replace;
    Guessingrows=MAX;
Run;

/* 4.) Close all active ODS destinations and open the PDF Output A destination that you will use capture */
/*     the output from all procedures in this assignment.  This PDF will include a table of contents page */
/*     but no bookmarks.  Apply a style of your choice.  Open the second PDF Output B destination that */
/*     will contain ONLY the output from the procedure in the next step.  This output will use the default */
/*     style.  Since it will contain the output from only one procedure, it is to have no contents or */
/*     bookmarks. You may want to delay implementing the ODS statements until you have everything else */
/*     working correctly in your program. */

ods _all_ close;

ods pdf (ID=A) file=pdfA
    STARTPAGE=NO
    CONTENTS=YES
    BOOKMARKLIST=none
    style= Styles.daisy;

ods pdf (ID=B) file=pdfB
    STARTPAGE=NO
    CONTENTS=NO
    BOOKMARKLIST=none
    style= Styles.Default;


/* 5.) Write a PROC step that will report the descriptor portion of the permanent data set created from the */
/*     CSV file. Supply an appropriate title and an appropriate proc label.  If the length of the COUNTY_NAME */
/*     column is less than 17, you still have work to do on the process that reads the csv file. */

Title "Covid Data Description";
proc contents data = mylib.covid;
run;
ods proclabel "Descrition of DataSet";
```

```
ods pdf (ID = B) close;

/* 6.) Use the permanent data set as input to create a temporary data set having only those rows where the county */
/*     name is Brazos. */

data temp;
    set mylib.covid;
    where COUNTY_NAME= "Brazos";
run;

/* 7.) */
data coviddat.NewDeaths;
    set mylib.covid;
    where DEATH_NEW_COUNT > 4000;
run;

/* 8.) Use the permanent data set as input to create a table of “Corrections” in the Excel “library”based on the value */
/*     of positive_new_cases_countbeinglessthan 0. */
data coviddat.Corrections;
    set mylib.covid;
    where POSITIVE_NEW_CASES_COUNT < 0;
run;

/* 9.) Use a system option to limit processing to 10 observations to print a sample of the data from the Brazos */
/*     County data.  Supply an appropriate title.  Since this output is still going to a PDF file, supply an */
/*     appropriate proc label.  Be sure to reset the option when this step is completed. */

options obs = 10;
proc print data = temp;
title1 "Brazos Covid Data";
ods proclabel = "description of Covid Data set for brazos";
run;
options obs = MAX;

/* 10.) Open the Excel destination to capture the output from the procedures that follow.  You may need to refer */
/*      to SAS Help documentation to find the option values that will produce the desired output.  Your titles */
/*      must appear within the worksheets so you can see them whenever you open the Excel file. */

ods excel file = covidOut
    OPTIONS(EMBEDDED_TITLES='on' sheet_interval='proc');


/* 11.) Use a PROC step to list all of the worksheets in the Excel library without printing their descriptorportions.
  All the output tables from this step must be in a single Excel tab named Covid Table List. Supply anappropriate
  title and proc label.*/

ods excel OPTIONS(SHEET_NAME='Covid Table List');
Title "Covid Tables";
proc contents data = coviddat._ALL_ NODS;
run;
ODS PROCLABEL = "Data";

/* 12.) Print the data portion of the table of high death count to a new sheet named High Covid Deaths.  Supply
        an appropriate title and proc label.*/

ods excel Options(SHEET_NAME = 'High Covid Deaths');
Title "High Covid Deaths";
proc print data= coviddat.newdeaths;
run;
ods proclabel = "Deaths";

/* 13.) Print the descriptor portion of the Corrections table in a single new sheetnamed Corrections Descriptor.
        Supply an appropriatetitle and proc label.*/

ods excel Options(SHEET_NAME = 'Corrections');
Title "Corrections";
proc contents data= coviddat.Corrections;
run;
ods proclabel = "Corrections";

/* 14.) Close the Excel destination. It should contain three tabs.  Close the PDF destination.  Include a line of
code that will reopen the default HTML destination.  This line of code was supplied in one of the demo programs
used in the lectures.*/
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```
ods _ALL_ close;
ODS HTML PATH = "%qsysfunc(pathname(work))";

/* 16.)
(a) After we run the mylib statement mylib shows up as one of our libraries. Under my lib we have the covid data table.
    The brazos county data has only the brazos county data in it.
(b) The engine used is V9
(c) num, YYMMDD10., 8 ;
(d) 31,930
(e) 16
```