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/******************************************************************************/
/* Program Name: STAT 604 HW#8                                              */
/* Date Created: 10/10/2021                                                 */
/* Author: Jack Rodoni                                                      */
/* Purpose: STAT 604 HW#8                                                   */
/* Date Modified: 10/14/2021                                                */
/* Location: /home/u59649056/Homeworks/JRodoni_Homework08.sas              */
/******************************************************************************/

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

TITLE;
FOOTNOTE;
ods noproctitle;

/* 2.) Create a library referenceto the location of the sample (cert) data that wasdownloaded and extracted from*/
/*     SAS.  Add the option access=readonlybetween the path and the semicolon in your libname statement to makes*/
/*     sure you do not accidentally overwrite files in this library.  Create a second library reference to the   */
/*     np_info.xlsxfile.                                                                                          */

libname datacert "/home/u59649056/my_shared_file_links/fkincheloe/stat604/cert" access=readonly;
libname npcert XLSX "/home/u59649056/Homeworks/np_info.xlsx";

/* 3.) Write a PROC step that will list all of the data sets in the first library created above (sample course data) */
/*     without reporting the descriptor portion of each data set.  Give this output an appropriate title.Include a   */
/*     footnote that says, "Downloaded from SAS Website"                                                             */

FOOTNOTE "Downloaded from SAS Website";
proc contents DATA=datacert._ALL_ NODS;
run;

/* 4.) Write a PROC step that will report the descriptor portion of the mechanicsdata set in the sample data library.   */
/*     Use "Mechanics Data Set" as the first title line and "Descriptor Portion" as the second title directly below it. */
/*     The report must list the variables in the order they were created.There will be no footnote on this report.     */

TITLE1 "Mechanics Data Set";
TITLE2 "Descriptor Portion";
proc contents DATA=datacert.mechanics varnum;
run;

/* 5.) Write a PROC step that will report the data portion of the mechanicsdata set.The output musthave the same first title */
/*     line as above and there will be a blank line between it and the second title, "Data Portion".In all steps of this     */
/*     assignment, use the minimum number of title statements required.                                                       */

TITLE1 "Mechanics Data Set";
TITLE3 "Data Portion";
proc print DATA=datacert.mechanics;
run;

/* 6.) Write a PROC step that will report the descriptor portion of the zipcodedata set in the sashelp library.  The report must */
/*     list the variables in the order they were created.  Supply an appropriate title.  Include a footnote that says, "Included */
/*     with SAS Installation".                                                                                                    */

Title1 "Zip Code Data";
Title2 "Descriptor Portion";
Footnote "Included with SAS Installation";
proc contents DATA=sashelp.zipcode varnum;
run;

/* 7.) Write a PROC step that will list all of the tables in the Excel file without reporting the descriptor portion of each table.*/
/*     Give this output an appropriate title.  There will be no footnote on this report.                                          */

TITLE "Table Contents";
proc contents DATA=npcert._ALL_ NODS;
run;

/* 8.) Write a PROC step that will report the descriptor portion of the parksworksheet from the Excel file.  Use "National Parks  */
/*     Information" as the only title for this and the procedure in the next step.  The report must list the variables in alphabetical*/
/*     order.                                                                                                                     */

TITLE "National Parks Information";
proc contents DATA=npcert.parks;
run;

/* 9.) Write a PROC step that will report the data portion of the parks. */
TITLE "National Parks Information";
proc print DATA=npcert.parks;
run;


/* 10.) Include a statement to release the library reference connection to the Excel file. */
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libname npcert clear;
run;

/* 13.) Use the report information contained in your ODS PDF output documents to answer the questions below and include the answers in
/*       the comment section at the bottom of your program file:
/*       (a) How many tables are in the Excel file?
/*            3
/*       (b) What is the observation length of the mechanics data set?
/*            88
/*       (c) How many numeric variables are in the mechanics data set?
/*            4
/*       (d) What is the name and length of the longest variable in the Parks table?
/*            Park Name - 46 obs
/*       (e) What is the value of the state variable for Death Valley National Park?
/*            CA,NV
/*       (f) Which of the data sets are sorted according to the descriptor portion reports?
/*            Zipcode
/*       (g) How many indexes does the zipcode data set have?
/*            3
```