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/* Program Name: KGliszczynski_HW08
/* Date Created: October 12, 2021
/* Author: Kat Gliszczynski
/* Purpose: To answer the steps listed in HW Assignment 8
/* Program Location: /home/u59692926/KGliszczynski_HW08.sas
*****/

/* Part 1: Housekeeping */
TITLE;
FOOTNOTE;
ODS NOPROCTITLE;

/* Part 2: Create Library Reference */
libname cert '~\my_shared_file_links\fkincheloe\stat604\cert' access=readonly;
run;
libname npinfoxl XLSX '/home/u59692926/my_shared_file_links/fkincheloe/stat604/Fall2021/np_info.xlsx';

/* Part 3: List all data sets in first library */
PROC CONTENTS DATA=cert._ALL_ NODS;
    TITLE "Cert Data Sets";
    FOOTNOTE "Downloaded from SAS Website";
run;

/* Part 4: Report the Descriptor Portion of the Mechanics Data Set */
PROC CONTENTS DATA=cert.mechanics varnum;
    TITLE1 "Mechanics Data Set";
    TITLE2 "Descriptor Portion";
    FOOTNOTE;
run;

/* Part 5: Report the Data Portion of the Mechanics Data Set */
PROC PRINT DATA=CERT.mechanics;
    TITLE1 "Mechanics Data Set";
    TITLE2 "Data Portion";
    FOOTNOTE;
run;

/* Part 6: Report the Descriptor Portion of the Zip Code Data Set */
PROC CONTENTS DATA=sashelp.zipcode;
    TITLE "Zip Code Data- Descriptor Portion";
    FOOTNOTE "Included with SAS Installation";
run;

/* Part 7: List all the tables in the Excel File */
proc contents DATA=npinfoxl._ALL_ NODS;
    TITLE "Excel Tables List";
    FOOTNOTE;
run;

/* Part 8: Report the Descriptor Portion of the Parks Worksheet in Excel */
proc contents data=npinfoxl.parks order=casecollate;
    TITLE "National Parks Information";
    FOOTNOTE;
run;

/* Part 9: Report the Data Portion of the Parks Worksheet in Excel */
proc print data=npinfoxl.parks;
    TITLE "National Parks Information";
    FOOTNOTE;
run;

/* Part 10: Release Library Reference Connection to the Excel File */
libname npinfoxl clear;

/* Part 13: Questions
/* a) There are 3 tables in the Excel file.
/* b) The Observation length of the mechanics data set is 88
/* c) There are 4 numeric variables in the mechanics data set
/* d) The name of the longest variable is Park Name and the length is 46
/* e) The value of the State variable is characters for Death Valley National Park
/* f) The Mechanics and Zip Code data sets are sorted according to the descriptor portion reports.
/* g) The zipcode data set has 3 indexes.

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