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/*****
*****/
/* Program Name: Assignment 9 */
/* Date Created: 15 October 2020 */
/* Author: Yash Saraiya */
/* Purpose: Practice and creating different kinds of data with SAS. */
/*
/* 1. Housekeeping*/
Title;
Footnote;
/* 2. Assign a libref named mylib to the new folder created above. Create a fileref to the csv file.
Create a second fileref for an xlsx file that will contain your output.*/
libname mylib "/folders/myfolders/STAT 604/Assignment 2/";
filename covid "/folders/myfolders/STAT 604/Assignment 2/COVID-19 Activity.csv";
filename output "/folders/myfolders/STAT 604/Assignment 2/YSaraiya_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.*/
PROC IMPORT OUT= mylib.covid
  DATAFILE= '/folders/myfolders/STAT 604/Assignment 2/COVID-19 Activity.csv'
  DBMS=CSV
  REPLACE;
  GUESSINGROWS= 100000;
  RUN;
/* 4. Close all active ODS destinations and open the Excel destination to capture the output from the
procedures that follow.*/
ODS _ALL_ CLOSE;
ODS EXCEL FILE="/folders/myfolders/STAT 604/Assignment 2/YSaraiya_HW09_output.xlsx"
/* 5. Write a PROC step that will report the descriptor portion of the permanent data set. Supply an
appropriate title.*/
OPTIONS(SHEET_NAME='COVID_Descriptor'
  EMBEDDED_FOOTNOTES='on'
  EMBEDDED_TITLES='on'
  SHEET_INTERVAL='proc'
  SUPPRESS_BYLINES='yes');
title1 'COVID dataset Descriptors';
proc contents data= mylib.covid;
run;
/* 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 mylib.temporary;
  set mylib.covid;
  where COUNTY_NAME='Brazos';
  run;
/* 7. Write another PROC step that will report the data portion of the temporary data set. Use a data
set option to limit the printing to only the first 10 rows of the table.*/
title1 'COVID Data(Brazos)';
ods Excel OPTIONS (embedded_titles='yes' sheet_name="Brazos");
proc print data= mylib.temporary (obs=10);
run;
/* 8. Close the Excel destination and include a line of code that will reopen the default HTML
destination.*/
ODS EXCEL CLOSE;
ods html path="%qsysfunc(pathname(work))";
ods html close;
/* 9. description and explanation */
/*
Before running the code, only Maps, Sas Help, et al were present. But, once
the libname mylib function was executed, libname mylib was added to the list of libraries.
Hence, we can say that these are temporary libraries that are volatile and get lost
on closing.
But, for a permanent library, it was found that it remains active even after closing,
which retains the information of the table. */
/*10
a. Observations - 783314; Variables - 13

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- b. V9
- c. Data type - Num; Format - YYMMDD10; Length - 8
- d. Observations - 224; Variables - 13
- e. REPORT DATE on observation 10 - 2020 01 31