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1  /*****
2  /* Program Name: DSmith_HW09_prog.sas
3  /* Date Created: 3/6/2023
4  /* Author: Dustin Smith
5  /* Purpose: To complete Homework 9 of stats 604.
6  /*
7  /* Inputs: elevations.csv called height at "/home/u63307645/STAT_604_Folder/mylib/elevations.csv"
8             july21.xlsx called july21 at "/home/u63307645/STAT_604_Folder/mylib/July21.xlsx"
9             july22.txt called july22 at "/home/u63307645/STAT_604_Folder/mylib/July22.txt"
10 /* Outputs: DSmith_HW09_output.xlsx found at      "/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW09_output.x
11 /*
12 /*
13 /*****/
14
15 /*Houskeeping*/
16 title;
17 footnote;
18 ods noproctitle;
19
20 /*2 Assing a mylib libref, and create filerefs for use in the program*/
21 libname mylib "/home/u63307645/STAT_604_Folder/mylib";
22
23 filename height "/home/u63307645/STAT_604_Folder/mylib/elevations.csv";
24 filename july21 "/home/u63307645/STAT_604_Folder/mylib/July21.xlsx";
25 filename july22 "/home/u63307645/STAT_604_Folder/mylib/July22.txt";
26
27 filename output "/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW09_output.xlsx";
28
29 /*3-5 create a permanent data set out of the above files*/
30 /*Elevation.csv*/
31 proc import datafile=height
32     DBMS=CSV
33     out=mylib.elevation
34     replace;
35 run;
36 /*July21.xlsx*/
37 proc import datafile=july21
38     DBMS=XLSX
39     out=mylib.july21
40     replace;
41 options validvarname=Any;
42 run;
43 /*July22.txt*/
44 proc import datafile=july22
45     DBMS = tab
46     out=mylib.july22
47     replace;
48     guessingrows=MAX;
49 run;
50
51 /* Create a subset of the July22 data */
52 data mylib.'Harlingen Rio Gande Airport'n;
53     set mylib.july22;
54     where NAME="HARLINGEN RIO GRANDE VALLEY INTERNATIONAL AIRPORT, TX US";
55 run;
56
57 /*6 Open an output Excel file with ods*/
58 ods _all_ close;
59
60 ods excel file=output
61     options(sheet_name="Mylib Data Sets" sheet_interval='proc' embedded_titles='yes');
62
63 /*7-10 Add the contents of xlsx file to the output*/
64 title "Contents of July22";
65 proc contents data=mylib.july22;
66     run;
67
68 title "HARLINGEN RIO GRANDE VALLEY INTERNATIONAL AIRPORT, TX US";
69 ods excel options(sheet_name="Harlingen");
70 proc print data=mylib.'Harlingen Rio Gande Airport'n;
71     run;
72
73 ods excel close;
74
75 /*11-13 Create a new libref to the output file */
76 libname output2 xlsx "/home/u63307645/STAT_604_Folder/STAT_604_Howework/DSmith_HW09_output.xlsx";
77

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78
79 title "July 2022 High Temperatures";
80 data output2."July 2022 High Temperatures"n;
81     set mylib.july22;
82     where TMAX > 99;
83 run;
84
85 libname output2 clear;
86
87 /*14 Use the export to place the elevations file onto the excel output*/
88 title "Elevation";
89 proc export data=mylib.elevation
90     outfile= output
91     DBMS = xlsx
92     replace;
93     sheet=Elevation;
94 run;
95
96 /*Clear all files*/
97 ods _ALL_ close;
98 filename _ALL_ clear;
99 libname _ALL_ clear;
100
101 /***** Questions
102 A upon opening a fresh session, it seems that my librefs are MAPS, MAPSGFK, MAPSSAS, SASDATA, SASHELP, SASUSER, STPSAMF
103 After running my libname and filename script, the Library added a libref of Mylib, which contained Elevation, Harlinger
104
105 B The Date Variable for the elevation sas table is of a character type of length 12 and a format of $12. Whereas
106 the Date Variable for the july21 sas table is of a numeric type with length 8 and has a format of MMDDYY10
107
108 C My excel file contains 5996 observations of data.
109
110 D this assignment used the Proc Export, Ods excel, and the basic data blocks.*****/
111
112
113
114
```