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/*Exercise 1-Read NAMCS data & create a SAS dataset called namcspat */

filename nam06 'c:\acsb_data\namcs06'; /*data file*/

filename nam06inp 'c:\acsb_data\nam06inp.txt'; /*must have*/
filename nam06for 'c:\acsb_data\nam06for.txt'; /*variable labels*/
filename nam06lab 'c:\acsb_data\nam06lab.txt'; /*create var labels &
assign formats*/ 

%inc nam06for;

data namcsvis;
infile nam06 missover lrecl=999;
%inc nam06inp;
%inc nam06lab;

patwt2=patwt/1000;
keep specr ager patwt vr vrpattt patwt2 physwt cstratm cpsum pastvis;
run;

proc freq data=namcsvis;
tables specr;
weight patwt2;
title 'Weighted 2006 NAMCS Visits: Physician specialty distribution';
run;

/*Exercise 2-Create NAMCS physician file and estimate number of
physicians*/
data namcspphys;
set namcsvis;
if physwt>0;

proc freq data=namcspphys;
tables specr;
weight physwt;
title 'Weighted 2006 NAMCS physicians: Physician specialty
distribution';
run;

/*Exercise 3-Compute standard error for physician estimates using
SURVEYFREQ*/
proc surveyfreq data=namcspphys;
tables specr;
strata cstratm;
cluster cpsum;
weight physwt;
title 'SURVEYFREQ standard error estimates of 2006 NAMCS physicians by
physician specialty';
run;

/*Exercise 4-Read 2006 ED PUF & create a SAS dataset called edwait1 */

filename ed06 'c:\acsb_data\ed2006'; /*data file*/

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filename ed06inp 'c:\acsb_data\ed06inp.txt'; /*must have*/
filename ed06for 'c:\acsb_data\ed06for.txt'; /*variable labels*/
filename ed06lab 'c:\acsb_data\ed06lab.txt'; /*create var labels &
assign formats*/

%inc ed06for;

data edwait1;
infile ed06 missover lrecl=999;
%inc ed06inp;
%inc ed06lab;
if waittime = 9999 then waittime = . ;
/*Recodes missing values on continuous variable to . */
run;

proc summary data=edwait1 nway;
class hospcode; id edwt msa cstratm cpsum;
var waittime;

OUTPUT OUT=edwait2 MEAN=avgwaittime;
/*Sends output to new SAS dataset and
renames waittime to reflect conversion to average*/

PROC PRINT DATA=edwait2 (obs=10); RUN;

/*Exercise 5-Compute average wait time across EDs*/
PROC UNIVARIATE DATA=edwait2 plot;
CLASS msa;
VAR avgwaittime; WEIGHT edwt;
TITLE 'Distribution of average ED wait times by MSA status';
run;

/*Exercise 6-2006 NAMCS public use data
Create a patient weight and recode number of past visits*/

data namcspat;
set namcsvis;

if pastvis=8 then vr=1;
else if pastvis=1 then vr=1;
else if pastvis=2 then vr=.4;
else if pastvis=3 then vr=.2;
else if pastvis=4 then vr=.125;
pastvsdist=pastvis;
if pastvis=8 then pastvsdist=1;

patwt2=patwt/1000;
vrpatwt=patwt2*vr;
keep pastvis ager patwt vr vrpatwt patwt2 pastvsdist;
run;
proc format;
value ager
1='Under 15 years'
2='15-24 years'
3='25-44 years'
4='45-64 years'

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5='65-74 years'  
6='75+ years';  
run;  
  
proc freq data=namcspat;  
where pastvsdist=4;  
tables ager;  
weight patwt2;  
format ager ager.;  
title 'Number of Visits: Age distribution among patients with 7+ visits  
during past 12 months';  
run;  
  
/*Exercise 7-visit vs. patient estimates*/  
proc freq data=namcspat;  
where pastvsdist=4;  
tables ager;  
weight vrpatwt;  
format ager ager.;  
title 'Number of Patients: Age distribution among patients with 7+  
visits during past 12 months';  
run;
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