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This program performs activities

for Homework 4, Spring 2018

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\*1. Assign libname to folder where dataset is stored;

libname ph490kr "C:\Users\emilylynch\Desktop\ph490kr";

\*read in dataset to a temporary dataset;

data HW4;

set lowbwt.sas7bdat;

run;

\*2. label each variable and its values;

proc format library=ph490kr;

value cntrl\_case 0 =“0\_cntrlNorm" 1= "1\_caseLow";

value raceL 0= "0\_white" 1= “1\_black" 2= “2\_other";

value smkstat 0= “0\_nonsmk” 1= “1\_smk”;

run;

options fmtsearch=(ph490kr);

data HW4;

set HW4;

format low cntrl\_case. race raceL. smoke smkstat.;

label id="id: participant ID#”;

label low=“low: case/cntrl status for low birthwght baby“;

label age=“age: moms age, yrs”;

label race=“race: moms race";

label smoke=“smoke: moms smoke status";

label ftv=“ftv: num of dr visits first tri";

label bwt=“bwt: baby birthwght, grams”;

run;

proc contents data=HW4;

run;

\*3. Create a new variable that groups age into the following categories: <20, 20-24, 25-29, 30-34, >=35. Label this new variable and its values as appropriate. Check your work;

if (age<20) then agecat=1;

else if (age>=20) & (age<24) then agecat=2;

else if (age>=25) & (age<29) then agecat=3;

else if (age>=30) & (age<34) then agecat=4;

else if (age>=35) then agecat=5;

else if age=. then agecat=.;

value agecatval 1= “1\_<20” 2= “2\_20-24” 3=“3\_25-29” 4=“4\_30-34” 5=“5\_>=35”;

run;

options fmtsearch=(ph490kr);

data HW4;

set HW4;

format agecat agecatval.;

label agecat=“agecat: Mom Age Categories”;

proc print data=HW4 (obs=50);

var age agecat;

run;

if cur\_smk=1 then smoke=2; /\*current smokers\*/

else if ev\_smk=1 & cur\_smk=0 then smoke=1; /\*past smokers\*/

else if ev\_smk=0 then smoke=0;

group bmi into who categories;

if (bmi<18.5) then bmicat=1;

else if (bmi>=18.5) & (bmi<25) then bmicat=2;

else if (bmi>=25) & (bmi<30) then bmicat=3;

else if (bmi>=30) then bmicat=4;

else if bmi=. then bmicat=.;

\*check our work, see \*F\* below;

\*F\* check work in categorizing BMI;

proc print data=sess16 (obs=75);

var bmi bmicat;

run;

\*4. Recode the variable for number of first trimester visits to place women with 2 or more visits into a single category. Label this variables and its values as appropriate. Check your work;

create a new variable coding as never, past, or current smokers;

\*first, we will look at ev\_smk & cur\_smk in a table, see \*A\*. below;

if cur\_smk=1 then smoke=2; /\*current smokers\*/

else if ev\_smk=1 & cur\_smk=0 then smoke=1; /\*past smokers\*/

else if ev\_smk=0 then smoke=0;

\*now check our work, see \*B\* below;

\*A\*. look at cross-tabulation of ev\_smk and cur\_smk;

proc freq data=sess16;

table ev\_smk\*cur\_smk /missing;

run;

\*B\* check our work for creating smoke;

proc freq data=sess16;

table smoke;

run;

\*5. Print out the values of age and race for mother’s separately among mothers with and without a low birthweight baby.

proc print data=HW4 (obs=50);

var agecat race;

where low=0;

run;

proc print data=HW4 (obs=50);

var agecat race;

where low=1;

run;

proc print data=sess17 (obs=50);

var age\_cig age\_cigkr;

run;

proc print data=sess17;

var yrs\_ockr;

where ever\_oc=0;

run;

proc print data=sess17;

var yrs\_ockr ever\_oc;

where ever\_oc ^=0;

run;

\*6. save a permanent copy;

data ph490kr.HW4\_working;

set HW4;

run;

proc contents data=ph490kr.HW4\_working;

run;