Lab 4

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Exercise 1

\*1;

%macro generate\_sqr\_table(start, end);

data sqr\_table;

do n = &start to &end;

Sqr\_n = n\*n;

output;

end;

run;

title "Table of Squared Values for Integers from &start to &end";

proc print data=sqr\_table noobs;

run;

%mend;

%generate\_sqr\_table(10, 15);

Exercise 2

\*2;

libname l "~/my\_shared\_file\_links/u5338439";

%MACRO provtyp(string1, string2);

title "Provider Type of the Provider";

proc tabulate data=l.cms\_providers\_la;

where provider\_type contains &string1 or provider\_type contains &string2;

class provider\_type;

var beneficiary\_average\_age beneficiary\_average\_risk\_score;

table (beneficiary\_average\_age beneficiary\_average\_risk\_score)\*(n='N' mean='Mean' std='Standard Deviation'),

provider\_type;

run;

%MEND;

%provtyp("Anesthesiology", "Orthopedic Surgery");

A screenshot of a computer

Description automatically generated

Exercise 3

\*3;

%macro my\_macro(obs, var);

ods rtf file = "~/nonshare/sampleoutput.rtf" style=Journal;

title "Listing of Physicians";

proc print data=l.cms\_providers\_la (obs=&obs);

id npi;

var nppes\_provider\_last\_org\_name nppes\_provider\_first\_name;

run;

title "Total Services by Provider Gender";

proc means data=l.cms\_providers\_la;

class nppes\_provider\_gender;

var &var;

run;

ods rtf close;

proc contents data=l.cms\_providers\_la;

run;

%mend;

%my\_macro(obs=10, var=beneficiary\_average\_risk\_score);

Exercise 4

\*4;

%macro my\_macro(obs, var, name);

ods rtf file = "~/nonshare/&name.\_sampleoutput.rtf" style=Journal;

title "Listing of Physicians";

proc print data=L.cms\_providers\_la (obs=&obs);

id npi;

var nppes\_provider\_last\_org\_name nppes\_provider\_first\_name;

run;

title "Total Services by Provider Gender";

proc means data=L.cms\_providers\_la;

class nppes\_provider\_gender;

var &var;

run;

ods rtf close;

proc contents data=L.cms\_providers\_la;

run;

%mend;

%my\_macro(8, beneficiary\_average\_age, Beneficiary Mean Age);

Exercise 5

\*5;

proc contents data=L.cms\_providers\_la;

run;

proc report data=L.cms\_providers\_la;

column provider\_type total\_drug\_unique\_benes total\_drug\_submitted\_chrg\_amt;

define provider\_type/display group "Provider Type";

define total\_drug\_unique\_benes/analysis sum "Total Number of Beneficiaries with Drug Services" format=10.0;

define total\_drug\_submitted\_chrg\_amt/ analysis sum "Total Drug Submitted Charge Amount" format=dollar12.2;

run;

Exercise 6

\*6;

proc report data=L.cms\_providers\_la;

column provider\_type npi total\_drug\_unique\_benes total\_drug\_submitted\_chrg\_amt;

define provider\_type/display group "Provider Type";

define npi / display "NPI";

define total\_drug\_unique\_benes/analysis sum "Total Number of Beneficiaries with Drug Services" format=10.0;

define total\_drug\_submitted\_chrg\_amt/ analysis sum "Total Drug Submitted Charge Amount" format=dollar12.2;

break after provider\_type / summarize;

run;