/\*A small sample of my SAS codes from work. This is a table-maker that transforms edited proc means output (summary table) to a 6-column output by country and sex (3 countries \* 2 sex). Used sql and iml procedures to manipulate datasets and SAS macros to reduce code length\*/

/\*Start of the program\*/

dm log "clear";

dm odsresults "clear";

libname acc "/folders/myshortcuts/Box/acc/SAS ";

/\*Original data steps suppressed\*/

/\*Proc means to get means and standard deviations\*/

proc means data=acc5; var inequit; class n8; by country sex;

ods output summary=summ1; run;

proc means data=acc5; var inequit; class n3; by country sex;

ods output summary=summ2; run;

proc means data=acc5; var inequit; class n11; by country sex;

ods output summary=summ3; run;

proc means data=acc5; var inequit; class n51; by country sex;

ods output summary=summ4; run;

%macro stig; %do i=41 %to 50;

proc means data=acc5; var inequit; class nn&i; by country sex;

ods output summary=summ&i; run;

%end; %mend stig; %stig;

/\*combine outputs from means steps\*/

data summ; set summ1-summ4 summ41-summ50;

print=compress(put(inequit\_mean,8.1))||" ("||compress(put(inequit\_stddev,8.1))||")"; run;

/\*Select and order variables\*/

proc sql;

create table work.summm as

select country, sex, n8, n3, n11, n51, nn41,nn42, nn43, nn44,

nn45, nn46, nn47, nn48, nn49, nn50, print

from work.summ;

quit;

/\*Used in iml. Generate table for each grouping variable\*sex\*country (2-col). \*/

%macro cname(a);

%do b=1 %to 3;

%do c=0 %to 1;

use summm;

do data; read all var {print} into ca&a&b&c where(n&a^=. & country=&b & sex=&c); end;

do data; read all var {n&a} into cb&a&b&c where(n&a^=. & country=&b & sex=&c); end;

create c&a&b&c var {"ca&a&b&c" "cb&a&b&c"}; append; close c&a&b&c;

%end;

%end;

%mend cname;

/\*Used in sql. Create each view for joining. Each view is from %cname. \*/

%macro cc(a,b);

select coalesce (cb&a&b.0,cb&a&b.1) as value,ca&a&b.0,ca&a&b.1

from work.c&a&b.0 full join work.c&a&b.1

on cb&a&b.0=cb&a&b.1

%mend cc;

%let names=8 3 11 51 n41 n42 n43 n44 n45 n46 n47 n48 n49 n50;

/\*Used in sql. Joining all 3 views for each grouping variable. \*/

%macro chart(a);

create table work.ccn&a as

select coalesce (dd.value,cc.value)as value,ca&a.10 as a10,

ca&a.11 as a11, ca&a.20 as a20, ca&a.21 as a21, ca&a.30 as a30, ca&a.31 as a31

from (%cc(&a,1)) as dd full join

(select coalesce (aa.value,bb.value)as value, ca&a.20, ca&a.21, ca&a.30, ca&a.31

from (%cc(&a,2)) as aa full join (%cc(&a,3))as bb

on aa.value=bb.value

)as cc

on dd.value=cc.value;

%mend chart;

/\*main program, doing all above and show all tables as a whole. \*/

%macro imls;

proc iml; %do i=1 %to 14; %cname(%scan(&names,&i)); %end;quit;

proc sql;%do i=1 %to 14; %chart(%scan(&names,&i));%end;quit;

proc sql; %do i=1 %to 13; select \* from ccn%scan(&names,&i) union all %end;

select \* from ccn%scan(&names,14);run;

%mend imls;

%imls;

/\*End of the program. \*/