libname se "/home/student/SAS Explorer";

options mcompilenote=all;

%macro RatingsReport(RatingType=Overall, StarLow=1, StarHigh=5);

ods noproctitle;

/\*---------------------Report 1 - Average Satisfaction Rating (Choose Rating Type)----------------------\*/

proc sql;

create table Average&RatingType as

Select Product\_Group, avg( &RatingType) as Average "Average &Ratingtype Rating"

from se.productreviews

group by Product\_Group;

quit;

proc format;

value underperform 0 - < 3 = "salmon";

run;

title1 "Average &Ratingtype Satisfaction Rating By Product Group";

footnote "Ratings below 3 stars are shaded red";

proc print data=Average&Ratingtype noobs label;

var Product\_Group Average / style={background=underperform.};

run;

footnote;

/\*--------------------------------------------- Report 2 - Breakdown of Satisfaction Ratings ------------------\*/

title1 "Satisfaction Ratings by Product Group";

title2 "&RatingType Satisfaction - &StarLow to &StarHigh Stars Ratings";

proc freq data=se.productreviews;

tables Product\_Group \* &RatingType /norow nocol nopercent ;

where &StarLow <= &RatingType <= &StarHigh;

run;

%mend ratingsreport;

%ratingsreport()

%else %do;

proc sql;

create table Average&RatingType as

Select Product\_Group, avg( &RatingType) as Average "Average &Ratingtype Rating"

from se.productreviews

where State\_Province = '&state'

group by Product\_Group;

quit;

proc format;

value underperform 0 - < 3 = "salmon";

run;

title1 "Average &Ratingtype Satisfaction Rating By Product Group and State";

title2 '&state';

footnote "Ratings below 3 stars are shaded red";

proc print data=Average&Ratingtype noobs label;

var Product\_Group Average / style={background=underperform.};

run;

footnote;

/\*--------------------------------------------- Report 2 - Breakdown of Satisfaction Ratings ------------------\*/

title1 "Satisfaction Ratings by Product Group and state ";

title2 "&RatingType Satisfaction - &StarLow to &StarHigh Stars Ratings";

title3 '&state';

proc freq data=se.productreviews;

tables Product\_Group \* &RatingType /norow nocol nopercent ;

where &StarLow <= &RatingType <= &StarHigh and State\_Province = '&state';

run;

%end: