**Workshop5A**

**Book: Learning SAS by Example: A programmer's Guide**

**Section: 18.14**

**Exercises: 1 to 6**

**Question 1**

\* 18.14-1 Program to produce given table. (The last row in the table represents all subjects.);  
  
libname pract '/home/u58712040/Programming\_Workshops';  
  
proc format library=pract;  
 value $Yesno 'Y','1' = 'Yes'  
 'N','0' = 'No'  
 ' ' = 'Not Given';  
 value $Size 'S' = 'Small'  
 'M' = 'Medium'  
 'L' = 'Large'  
 ' ' = 'Missing';  
 value $Gender 'F' = 'Female'  
 'M' = 'Male'  
 ' ' = 'Not Given';  
run;  
  
options fmtsearch=(pract);  
title "Details of college dataset";  
proc tabulate data=pract.college;  
 class Gender Scholarship SchoolSize;  
 table Gender Scholarship All, SchoolSize;  
 keylabel n=' ';  
run;

**Question 2**

\* 18.14-2 Program to produce given table. (The ALL column has been renamed Total.);

libname pract '/home/u58712040/Programming\_Workshops';

options fmtsearch=(pract);

title "Details of college dataset with Total";

proc tabulate data=pract.college;

class Gender SchoolSize Scholarship;

table SchoolSize All, Gender Scholarship All;

keylabel n=' '

All= 'Total';

run;

**Question 3**

\* 18.14-3 Program to produce given table. (The ALL column has been renamed Total and Gender has been formatted);

libname pract '/home/u58712040/Programming\_Workshops';

proc format;

value $gender 'F'='Female'

'M'='Male';

run;

title "Details from college dataset formatted by gender";

proc tabulate data=pract.college;

class Gender ScholarShip SchoolSize;

table (Gender All)\*(Scholarship All), SchoolSize All;

keylabel n=' '

All='Total';

format Gender $gender.;

run;

**Question 4**

\* 18.14-4 Program to produce given table. (The keyword ALL has been renamed Total, Gender is

formatted, and ClassRank (a continuous numeric variable) has been formatted into two groups (0–

70 and 71 and higher). ;

libname pract '/home/u58712040/Programming\_Workshops';

proc format;

value rank low-70='Low to 70'

71-high='71 and higher';

run;

title "Details from College dataset formatted by Gender and ClassRank.";

proc tabulate data=pract.college;

class Scholarship Gender ClassRank;

table ScholarShip All, (ClassRank)\*(Gender All);

keylabel n=' '

All='Total';

format Gender $gender. ClassRank rank.;

run;

**Question 5**

\* 18.14-5 Program to produce given table. (The keywords ALL, N, MIN, and MAX have all been renamed.);

libname pract '/home/u58712040/Programming\_Workshops';

title "Descriptive Statistics of College dataset";

proc tabulate data=pract.college;

var GPA;

class Gender;

table GPA\*(n (mean min max)\*f=7.1), Gender All;

keylabel n='Number'

Mean="Average"

Min="Minimum"

Max="Maximum"

All='Total';

run;

**Question 6**

\* 18.14-6 Program to produce given table. (The keywords ALL, N, and MEAN have all been renamed.);

libname pract '/home/u58712040/Programming\_Workshops';

title "Descriptive Statistics of College dataset (only N and Mean)";

proc tabulate data=pract.college;

var GPA ClassRank;

class Gender;

table GPA\*(n (mean)\*f=7.1) ClassRank\*(n (mean)\*f=7.1), Gender All;

keylabel n='Number'

Mean="Average"

All='Total';

run;