

ODS Graphics ON;

```
data bookclub;
infile "/home/u60821483/my_shared_file_links/haticesahinoglu0/BookClubNospace.csv" firstobs=2 dlm=",";
input height weight gender $ age sector $ booksRead;
if (age >= 30) then ageGroup = "Age>=30";
else ageGroup="Age<30";
if (booksread >= 3) then totalBooks = "booksread>=3";
else totalBooks = "booksread<3";
format ageGroup $CHAR10. totalBooks $CHAR12.;
proc print data=bookclub;
```

/*Problem 1a*/

```
proc means data=bookclub mean std;
var booksRead;
class gender;
output out=stats;
```

/*Problem 1b*/

```
proc print data=stats;
```

/*Problem 2*/

```
proc sgplot data=bookclub(where=(gender="f"));
Vbar age / Group=sector;
run;
```

/* The visualization is trying to show the distribution of women by age,
and the total number of women in a given sector for a given age */

/*Problem 3*/

```
proc sgpie data=bookclub;
donut sector/response=booksRead;
run;
```

/*Problem 4*/

```
proc sgplot data=bookclub;
histogram height/group=gender;
density height/group=gender;
run;
```

/*Problem 5*/

```
proc sgplot data=bookclub;
scatter x=age y=booksread /group=gender;
run;
```

/*Problem 6*/

```
PROC FREQ data= bookclub;
TABLES ageGroup*totalBooks /Nopercent norow nocol;
run;
```