```
*Name = Ugonna Okengwu*;

LIBNAME learn "/home/u63417899/BAN130ZBB";

*Section-4.10: Problems 2;
data learn.perm;
input ID : $3. Gender : $1. DOB : mmddyy10.
          Height Weight;
    label DOB = 'Date of Birth'
          Height = 'Height in inches'
          Weight = 'Weight in pounds';
    format DOB date9.;
datalines;
001 M 10/21/1946 68 150
OO2 F 5/26/1950 63 122
003 M 5/11/1981 72 175
004 M 7/4/1983 70 128
005 F 12/25/2005 30 40
;
title "Contents of data set PERM";
proc contents data=learn.perm varnum;
run;

Proc print data = learn.perm;
run;
*The DOB output on proc print is with this format ddmmyy while the DOB output on the window is mmddyy
Also the months on proc print is printed in words, eg: 21OCT1946;



*Section5.9: Problems 2;
proc format;
    value agrep 0 - 30 = '0 to 30'
                31 - 50 = '31 to 50'
                51 - 70 = '50 to 70'
                71 - high = '71 and older';
    value $party 'D' = 'Democrat'
                 'R' = 'Republican';

    value $likert '1','2' = 'Generally Disagree'
                  '3'      = 'No opinion'
                  '4','5' = 'Generally Agree';

run;

data voter;
    input Age Party : $1. (Ques1-Ques4)($1. + 1);
    label Ques1 = 'The president is doing a good job'
          Ques2 = 'Congress is doing a good job'
          Ques3 = 'Taxes are too high'
          Ques4 = 'Government should cut spending';
    format Age agegrp.
           Party $party.
           Ques1-Ques4 $likert.;
datalines;
23 D 1 1 2 2
45 R 5 5 4 1
67 D 2 4 3 3
39 R 4 4 4 4
19 D 2 1 2 1
75 D 3 3 2 3
57 R 4 3 4 4
```

```sas
;

TITLE "Listing of voter";
proc print data=voter;
run;

title "Frequencies on the Four Questions";
proc freq data=voter;
    tables Ques1-Ques4;
run;


*Section5.9: Problems 3;
data colours;
    input colour : $1. @@;
datalines;
R R B G Y Y . . B G R B G Y P O O V V B
;
proc format;
    value $colour 'R', 'B', 'G' = 'Group 1'
                  'Y', 'O' = 'Group 2'
                  ' '       = 'Not Given'
                  other    = 'Group 3';
run;

title "Colour Frequencies (Grouped)";
proc freq data=colours;
    tables colour / nocum missing;
    format colour $colour.;
run;


*Section 6.7: Problems 1;
proc import datafile='/home/u63417899/BAN130ZBB/drugtest.xls'
    out=Drugtest
    dbms=xls
    replace
    getnames=yes;
run;

proc print data=Drugtest;
run;


*Section 6.7: Problems 2;
data Soccer;
    input Team : $20. Wins Losses;
datalines;
Readington 20 3
Raritan 10 10
Branchburg 3 18
Somerville 5 18
;
options nodate nonumber;
title;
ods listing close;
ods csv file="/home/u63417899/BAN130ZBB/Soccer.csv" ;
proc print data=Soccer noobs;
run;

ods csv close;
ods listing;
```

```
proc import datafile='/home/u63417899/BAN130ZBB/soccer.xls'
     out=Soccer
     dbms=xls
     replace;
     getnames=yes;
run;

proc print data=Soccer;
run;
```

Contents of data set PERM

The CONTENTS Procedure

Data Set Name	LEARN.PERM	**Observations**	5
Member Type	DATA	**Variables**	5
Engine	V9	**Indexes**	0
Created	06/09/2023 13:49:16	**Observation Length**	32
Last Modified	06/09/2023 13:49:16	**Deleted Observations**	0
Protection		**Compressed**	NO
Data Set Type		**Sorted**	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	4078
Obs in First Data Page	5
Number of Data Set Repairs	0
Filename	/home/u63417899/BAN130ZBB/perm.sas7bdat
Release Created	9.0401M7
Host Created	Linux
Inode Number	15064299536
Access Permission	rw-r--r--
Owner Name	u63417899
File Size	256KB
File Size (bytes)	262144

Variables in Creation Order					
#	**Variable**	**Type**	**Len**	**Format**	**Label**
1	ID	Char	3		
2	Gender	Char	1		
3	DOB	Num	8	DATE9.	Date of Birth
4	Height	Num	8		Height in inches
5	Weight	Num	8		Weight in pounds

Contents of data set PERM

Obs	ID	Gender	DOB	Height	Weight
1	001	M	21OCT1946	68	150
2	OO2	F	26MAY1950	63	122
3	003	M	11MAY1981	72	175
4	004	M	04JUL1983	70	128
5	005	F	25DEC2005	30	40

Listing of voter

Obs	Age	Party	Ques1	Ques2	Ques3	Ques4
1	23	Democrat	Generally Disagree	Generally Disagree	Generally Disagree	Generally Disagree
2	45	Republican	Generally Agree	Generally Agree	Generally Agree	Generally Disagree
3	67	Democrat	Generally Disagree	Generally Agree	No opinion	No opinion
4	39	Republican	Generally Agree	Generally Agree	Generally Agree	Generally Agree
5	19	Democrat	Generally Disagree	Generally Disagree	Generally Disagree	Generally Disagree
6	75	Democrat	No opinion	No opinion	Generally Disagree	No opinion
7	57	Republican	Generally Agree	No opinion	Generally Agree	Generally Agree

Frequencies on the Four Questions

The FREQ Procedure

The president is doing a good job				
Ques1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No opinion	1	14.29	4	57.14
Generally Agree	3	42.86	7	100.00

Congress is doing a good job				
Ques2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	2	28.57	2	28.57
No opinion	2	28.57	4	57.14
Generally Agree	3	42.86	7	100.00

Taxes are too high				
Ques3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No opinion	1	14.29	4	57.14
Generally Agree	3	42.86	7	100.00

Government should cut spending				
Ques4	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Generally Disagree	3	42.86	3	42.86
No opinion	2	28.57	5	71.43
Generally Agree	2	28.57	7	100.00

Colour Frequencies (Grouped)

The FREQ Procedure

colour	Frequency	Percent
Not Given	2	10.00
Group 1	10	50.00

colour	Frequency	Percent
Group 2	5	25.00
Group 3	3	15.00

Colour Frequencies (Grouped)

Obs	Subj	Drug	Total Cholesterol	LDL	HDL
1	1	Placebo	250	140	40
2	2	Active	200	110	54
3	3	Active	180	90	48
4	4	Placebo	233	127	34
5	5	Active	210	127	46
6	6	Placebo	260	150	59

Team	Wins	Losses
Readington	20	3
Raritan	10	10
Branchburg	3	18
Somerville	5	18

Obs	Team	Wins	Losses
1	Readington	20	3
2	Raritan	10	10
3	Branchburg	3	18
4	Somerville	5	18