```
1 ods pdf file = '/home/u61979420/section6.pdf';
 2 * import all of the student data sets;
 3 data PSTAT130;
 4 infile '/home/u61979420/PSTAT130.txt';
 5 input StudentName $ 1-16;
 6 CourseName = 'PSTAT130';
 7 run;
 8
 9 data POLI125;
10 infile '/home/u61979420/POLI125.txt';
11 input StudentName $ 1-16;
12 CourseName = 'POLI125';
13 run;
14
15 data PSYCH118;
16 infile '/home/u61979420/PSYCH118.txt';
17 input StudentName $ 1-16;
18 CourseName = 'PSYCH118';
19 run;
20
21 /* 1a) Create a dataset called Allstudents with students' name and coursename using
22 three students' data sets. */
23 data AllStudents;
24 set PSTAT130 PSYCH118 POLI125;
25 run;
26
27 *import instructor and classroom sets;
28 data Instructor;
29 infile '/home/u61979420/instructors.txt';
30 input @1 InstructorName $ @16 AcademicRank $ @23 Salary $ @32 CourseName $ @42 FirstClassDate $;
31 run;
32
```

```
that
                                                                                                *
                                                                                                 class.
                                                                                                                                                                                                                                                                                                                                                                                                                  'Roster' for each class showing the names of the students taking
                                                                                each
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   students
                               ŝ
                                                                                               that
                                                                                that
                               Time
                                                                                and Allstudents data sets so
                                                                                               and the room information for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iii. Show only the CourseName at the top of each page, and the list of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ii. Assign appropriate variable labels for CourseName and StudentName
                               636
                               ŝ
                              input @1 BldgName $ @14 RoomNumber $ @19 CourseName $ @29 Days
                                                                                                                                                                                                                                                                                                                                                                                                                                                i. Separate the lists onto a page for each class.
                                                                                Classrooms
                                                                                               instructor
              infile '/home/u61979420/classrooms.txt';
                                                                                                                                                                                                                                                                                                                                                merge AllStudents Classroom Instructor;
                                                                                               student is paired with his/her
                                                                              /* 1b) Combine the Instructor,
                                                                                                                                                                                                                                                                proc sort data=AllStudents;
                                                                                                                               proc sort data=Instructor;
                                                                                                                                                                                                proc sort data=ClassRoom;
                                                                                                                                                                                                                                                                                                                                                                                                                  /* 1c) Create a
data Classroom;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 names below. */
                                                                                                                                                by CourseName;
                                                                                                                                                                                                                by CourseName;
                                                                                                                                                                                                                                                                                 by CourseName;
                                                                                                                                                                                                                                                                                                                                 data pairings;
                                                                                                                                                                                                                                                                                                                                                                 by CourseName;
                                                                                                                                                                                                                                 run;
                                                                                                                                                                                                                                                                                                                                                                                   run;
                                                 run;
                                                                                                                                                                  run;
                                                                                                                                                                                                                                                                                                  run;
                                                                                                                                                                                               45
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                                                                             3 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                              40
```

```
label CourseName = 'Course' FirstClassDate = 'First Class Date' InstructorName = 'Professor' BldqName = 'Building
                                                                                                                                                                                                                                                                                                         /* 1d) Create a Class List for each Student showing details of the classes each is taking.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /* le) Create a Master List of all Students whose instructor is an Associate Professor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iii. Create a user-defined format and apply it to academic rank, assigning the label
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          var CourseName FirstClassDate InstructorName BldgName RoomNumber Days Time;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Assistant Professor" to "Asst" and "Associate Professor" to "Assoc"
                                                                                                                                                 label StudentName = 'Student Name' CourseName = 'Course Name';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    i. Include the variables in the example on the next page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'Days' Time = 'Time';
                                                                                                                                                                                                                                                                                                                                                                                                                                                              iii. Use an appropriate format for FirstClassDate */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                iv. Use an appropriate format for Salary. */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 value $arank "Assoc" = "Associate Professor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         proc print data = pairings label noobs;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ii. Assign appropriate variable labels
                                                                                                                                                                                                                                                                                                                                                                                                            ii. Assign appropriate variable labels
proc print data= pairings label noobs;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RoomNumber = 'Room Number' Days =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 format FirstClassDate $mmddyy8.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Asst" = "Assistant Professor";
                                                                                                                                                                                                                                                                                                                                                           i. Include the variables below
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  proc sort data = pairings;
                                                 var StudentName;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              by StudentName;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            by StudentName;
                                                                                                   by CourseName;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  proc format;
```

```
/* 1e) Create a Master List of all Students whose instructor is an Associate Professor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'Instructor
                                                                                                                                                                                                          iii. Create a user-defined format and apply it to academic rank, assigning the label
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               'Course' InstructorName
                                                                                                                                                                                                                                                   "Assistant Professor" to "Asst" and "Associate Professor" to "Assoc"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          var StudentName CourseName InstructorName AcademicRank Salary;
                                                                                                                   .. Include the variables in the example on the next page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   title 'List of Students for Associate Professors';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           label StudentName = 'Student Name' CourseName
                                                                                                                                                                                                                                                                                                   iv. Use an appropriate format for Salary. */
                                                                                                                                                                                                                                                                                                                                                                                      value $arank "Assoc" = "Associate Professor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   proc print data = pairings label noobs;
                                                                                                                                                               ii. Assign appropriate variable labels
                                                                                                                                                                                                                                                                                                                                                                                                                               "Asst" = "Assistant Professor";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AcademicRank = 'Academic Rank';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             where AcademicRank = 'Assoc';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 format AcademicRank $arank.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ods pdf close;
                                                                                                                                                                                                                                                                                                                                            proc format;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   run;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   run;
run ;
```

#### Course Name=POLI125

Student Name

Lily Yang

Robert Williams

Tracy Jones

Cheryl Smith

Alex Shepard

Trinh Phan

Mary Marcus

**Curt Forrest** 

Andy Potts

### Course Name=PSTAT130

**Student Name** 

John Thomas

Elizabeth Smith

Rajesh Krish

Lily Yang

Robert Williams

Tracy Jones

Cheryl Smith

Alex Shepard

Trinh Phan

Lee Barrett

Clark Johnson

Jenny Page

Mary Marcus

**Curt Forrest** 

Andy Potts

### Course Name=PSYCH118

**Student Name** 

John Thomas

Elizabeth Smith

Rajesh Krish

Lily Yang

Lee Barrett

Clark Johnson

Jenny Page

Mary Marcus

Wednesday, August 24, 2022 07:18:25 PM **2** 

## Course Name=PSYCH118

Student Name

Curt Forrest

Andy Potts

## StudentName=Alex Shepard

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00

## StudentName=Andy Potts

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Cheryl Smith

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00

#### StudentName=Clark Johnson

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

### StudentName=Curt Forrest

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

### StudentName=Elizabeth Smith

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Jenny Page

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

### StudentName=John Thomas

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Lee Barrett

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Lily Yang

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Mary Marcus

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

## StudentName=Rajesh Krish

Course	First Class Date	Professor	Building	Room Number	Days	Time
PSTAT130	09/23/10	John	South	518	M/W/F	5:00
PSYCH118	09/24/10	Sigmund	Phelps	222	T/TH	10:00

### StudentName=Robert Williams

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00

## StudentName=Tracy Jones

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00

### StudentName=Trinh Phan

Course	First Class Date	Professor	Building	Room Number	Days	Time
POLI125	09/27/10	Karl	Phelps	126	M/W	2:00
PSTAT130	09/23/10	John	South	518	M/W/F	5:00

# **List of Students for Associate Professors**

Student Name	Course	Instructor	Academic Rank	Salary
Alex Shepard	PSTAT130	John	Associate Professor	\$56,000
Andy Potts	PSTAT130	John	Associate Professor	\$56,000
Andy Potts	PSYCH118	Sigmund	Associate Professor	\$92,000
Cheryl Smith	PSTAT130	John	Associate Professor	\$56,000
Clark Johnson	PSTAT130	John	Associate Professor	\$56,000
Clark Johnson	PSYCH118	Sigmund	Associate Professor	\$92,000
Curt Forrest	PSTAT130	John	Associate Professor	\$56,000
Curt Forrest	PSYCH118	Sigmund	Associate Professor	\$92,000
Elizabeth Smith	PSTAT130	John	Associate Professor	\$56,000
Elizabeth Smith	PSYCH118	Sigmund	Associate Professor	\$92,000
Jenny Page	PSTAT130	John	Associate Professor	\$56,000
Jenny Page	PSYCH118	Sigmund	Associate Professor	\$92,000
John Thomas	PSTAT130	John	Associate Professor	\$56,000
John Thomas	PSYCH118	Sigmund	Associate Professor	\$92,000
Lee Barrett	PSTAT130	John	Associate Professor	\$56,000
Lee Barrett	PSYCH118	Sigmund	Associate Professor	\$92,000
Lily Yang	PSTAT130	John	Associate Professor	\$56,000
Lily Yang	PSYCH118	Sigmund	Associate Professor	\$92,000
Mary Marcus	PSTAT130	John	Associate Professor	\$56,000
Mary Marcus	PSYCH118	Sigmund	Associate Professor	\$92,000
Rajesh Krish	PSTAT130	John	Associate Professor	\$56,000
Rajesh Krish	PSYCH118	Sigmund	Associate Professor	\$92,000
Robert Williams	PSTAT130	John	Associate Professor	\$56,000
Tracy Jones	PSTAT130	John	Associate Professor	\$56,000
Trinh Phan	PSTAT130	John	Associate Professor	\$56,000