Stat 657
Assignment 08 - SAS

Scope:

The objective of this assignment is to practice using outer joins and creating SQL views. It will also reinforce the concepts of subqueries and inline views to create a complex query. All of the information necessary to complete this assignment was covered by the end of Lecture 11.

Specific Instructions for this Assignment:

1. Use a single PROC SQL statement to create a permanent view in the library that you have been using for your permanent SAS files this semester. This time, you will not use the access=readonly option on the libname statement because you will be writing the view to the library. This must not be the ORION library and you must not assign a libref to the ORION library in the open code of your program. Create the view in such a way that it will still run successfully if it gets copied or moved to another folder on your computer (or to another folder in SAS Studio if you are using it). The view must return all of the active female employees hired between January 1, 2006 and December 31, 2006 along with their quarterly donations and total annual donations. (You may hard code the date literals in your subsetting expression.) Also include employee ID, name and salary. Format the salary values so they are displayed as shown in the sample output. Use a combination of in-line views, joins, or subqueries as needed so that no temporary tables are needed to create the desired output. Use the datasets in the ORION library that was supplied in the SQL sample data that you have been using for the SQL exercises. Gender, salary, hire date and termination information are in the employee_payroll table. The name is in the employee_addresses table. Donation information is in the employee_donations table. Employee_ID is the primary key for all three tables. The resulting output must include employees who did not make donations as well as those who did.
2. Use the CONTENTS procedure to display the contents of your permanent library without showing the descriptor portion of each data set. Your list of data sets may be different than the sample output depending on what is stored in the folder on your computer. However, it must include the view that was created in step 1 above.
3. Run a second CONTENTS procedure to show the “descriptor portion” of the view created above.
4. Run a SQL statement that writes the definition of the view to the SAS Log.
5. Use a SQL statement to access the view and print all the data returned by the view. Create a footnote indicating the source as SQL.
6. Use Proc Print to print the data returned by the view. Use a footnote to indicate source as Proc Print.
7. Three PDF files must be uploaded to WebAssign. Convert your program and the SAS log to PDF files. The third file will contain all the requested output from ODS PDF. The program must contain a completed header block and comment blocks for each step. To the extent you have

been taught to control it, your output must be consistent with that in the Assignment output posted on eCampus.