**Practical No. 3**

**Aim**: To Sort/Group Report data and Enhance Reports.

**Prerequisite:**

1. Understanding of fundamental programming constructs of Base SAS

**Outcome:** After successful completion of this experiment students will be able to

1. Use SORT commands to sort the SAS data sets.
2. Use TITLE, FOOTNOTE and LABEL statements to enhance reports.

(TO BE COMPLETED BY STUDENTS)

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| Class: B.Tech IT | Batch: A1 |
| Date of Practical: | Date of Submission: |
| Grade: |  |

Assignment 1:

For the following program

**proc** **print** data=orion.employee\_payroll;

**run**;

Add a PROC SORT step before the PROC PRINT step to sort orion.employee\_payroll by Salary. Place the result into a temporary data set named sort\_salary.

**Code of the program:**

LIBNAME orion "d://PA\_2021\_22/Data\_sets";

**proc** **sort** data = orion.employee\_payroll

out=work.sort\_salary ;

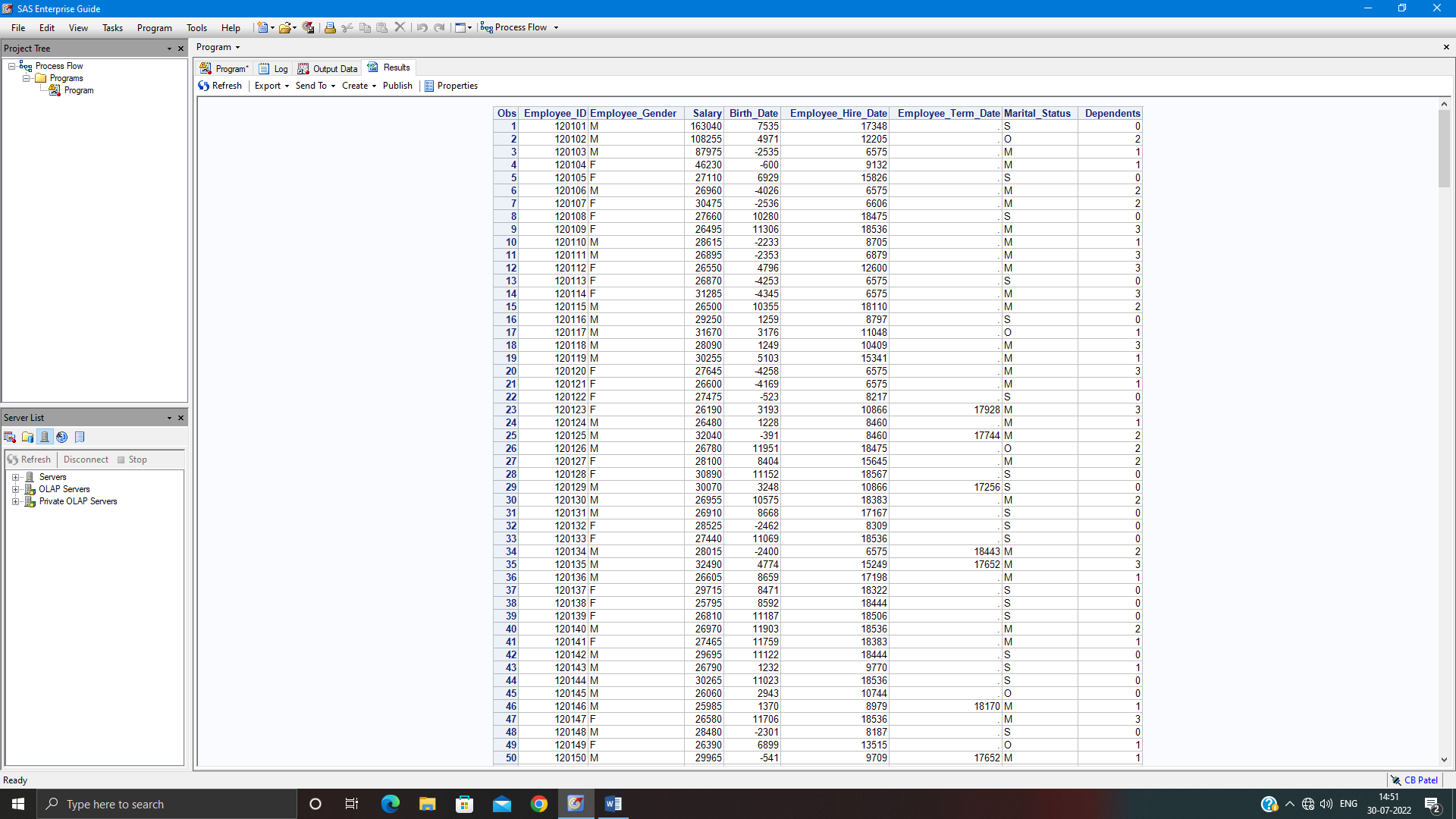
by Salary;

**run**;

**proc** **print** data=orion.employee\_payroll;

**run**;

**Output of the Program:**



Assignment 2:

Sort orion.employee\_payroll by Employee\_gender and by descending Salary within gender. Place the result in a temporary data set named sort\_sal.

Print a subset of the sort\_sal data set. Select only those observations who earn more than $65,000. Group the report by employee\_gender and include a total and subtotals for salary. Suppress the Obs column. Display only employee\_id,salary and Martial status.

**Code of the program:**

LIBNAME orion "d://PA\_2021\_22/Data\_sets";

**proc** **sort** data = orion.employee\_payroll

out=work.sort\_salary ;

by Employee\_Gender DESCENDING Salary;

**run**;

**proc** **print** data=orion.sort\_sal noobs;

WHERE Salary>= **65000**;

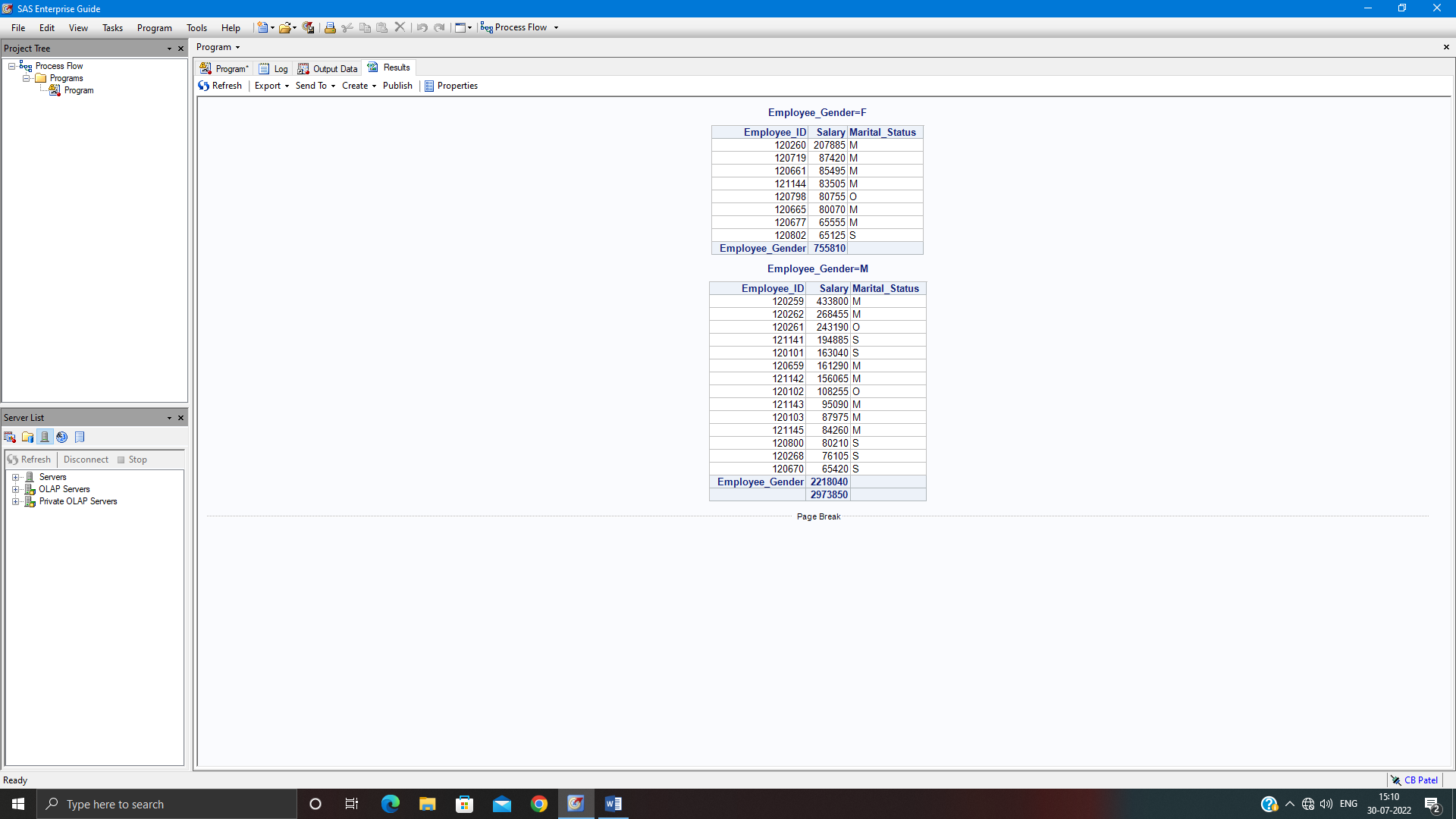
by Employee\_Gender;

sum Salary;

var Employee\_ID Salary Marital\_Status;

**run**;

**Output of the Program:**



Assignment 3:

For the following program,

**proc** **print** data=orion.sales noobs;

where Country='US' and Job\_Title='Sales Rep. I';

var Employee\_ID First\_Name Last\_Name Gender Salary;

**run**;

Add a title – “Entry-level Sales Representatives” and a footnote – “Job\_Title: Sales Rep. I”

Use labels for variables as shown below.

Employee\_id – employee ID

First\_name - First Name

Last\_Name – Last Name

Salary – Annual Salary

Modify the program to use a blank space as the split = character to generate two-line column headings.

**Code of the program:**

LIBNAME orion "d://PA\_2021\_22/Data\_sets";

title1 'Entry-level Sales Representatives';

footnote 'Job\_Title: Sales Rep. I';

**proc** **print** data=orion.sales split=" ";

where Country='US' and Job\_Title='Sales Rep. I';

var Employee\_ID First\_Name Last\_Name Gender Salary;

label Employee\_ID = "employee ID"

First\_name = 'First Name'

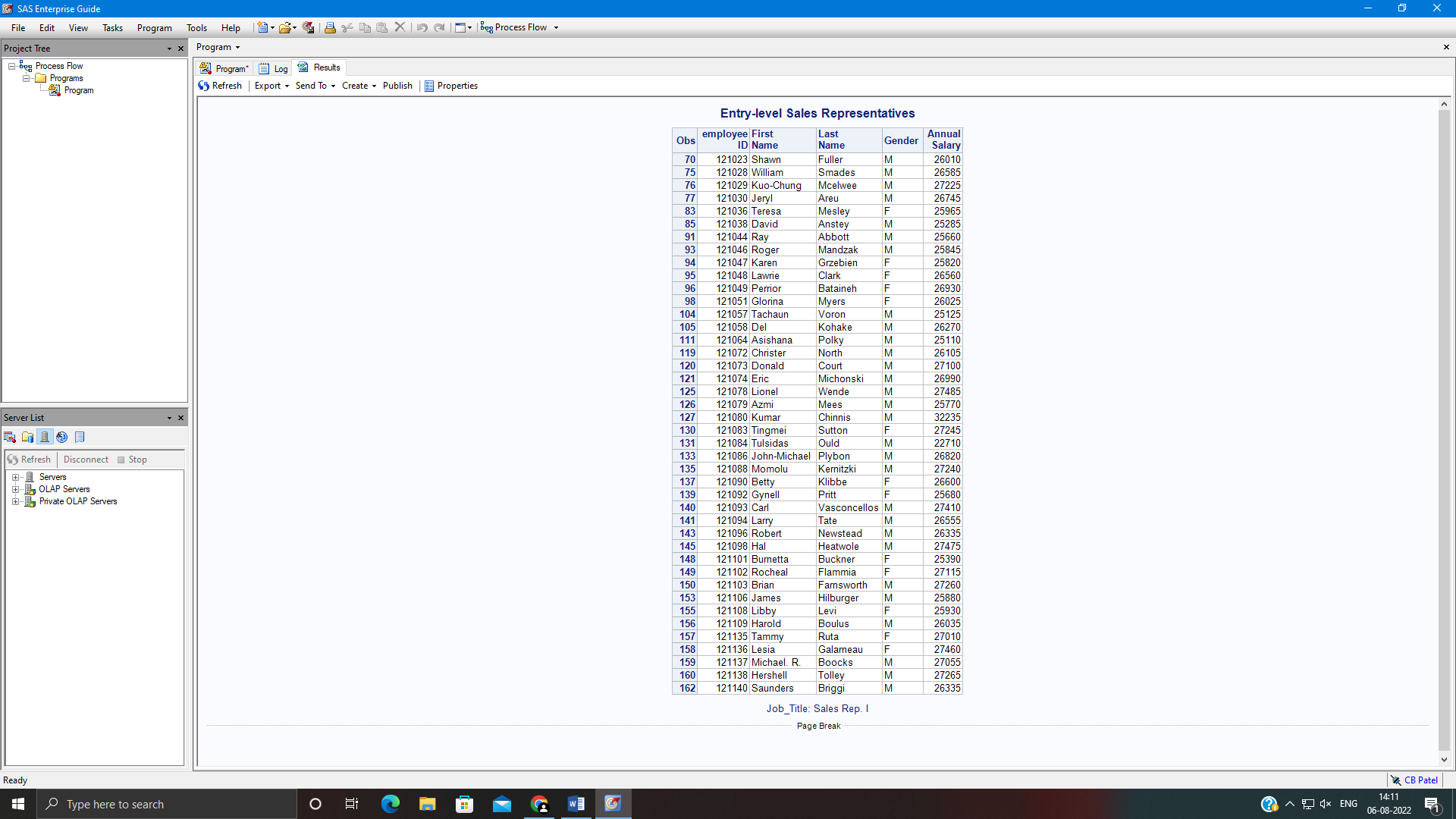
Last\_Name = 'Last Name'

Salary = 'Annual Salary';

**run**;

**run**;

**Output of the Program:**



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