**Practical No. 10**

**Aim**: To merge and concatenate SAS data sets.

**Prerequisite:**

1. Understanding of fundamental programming constructs of Base SAS

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

1. Use SET statement in a data step & RENAME= data set option.
2. Merge one to one, one to many based on a common variable.
3. Merge data sets with non matches using the IN= data set option.

(TO BE COMPLETED BY STUDENTS)

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

**Assignment 1:**

* Write a DATA step to concatenate orion.sales and orion.nonsales to create a new data set, work.allemployees.
* The new data set should include only employee\_id,first\_name,last\_name, job\_title and salary.
* Add a PROC PRINT step to display the report as shown below.



**Code of the program:**

libname orion "d://PA\_2021\_22/Data\_Sets";

**data** work.allemployees;

merge orion.sales orion.nonsales(rename=(First = First\_Name));

where Job\_Title contains "Sales";

keep employee\_id first\_name last\_name job\_title salary;

**run**;

**proc** **print** data=work.allemployees noobs;

id Employee\_ID;

format salary dollar12.2;

**run**;

/\*

proc print data=orion.nonsales;

run;\*/

**Output of the Program:**

**Assignment 2:**

Create a new data set listlevel by merging orion.product\_dim\_n with orion.product\_list\_n. The new data set should include only product\_id, product\_name,and product\_level and only those observations with product level equal to 3.

Create the report shown below.



**Code of the program:**

libname orion "d://PA\_2021\_22/Data\_Sets";

**proc** **sort** data= orion.product\_dim\_n

out=work.prod;

by Product\_id;

**run**;

**proc** **sort** data= orion.product\_list\_n

out=work.lisr;

by Product\_id;

**run**;

**data** work.listlevel;

merge work.prod work.lisr;

by Product\_id;

if product\_level =**3**;

keep product\_id product\_name product\_level ;

**run**;

**proc** **print** data=work.listlevel noobs;

id Product\_ID;

**run**;

**Output of the Program:**

**Assignment 3:**

* Write a PROC SORT step to sort orion.customer by country to create a new data set work.customer.
* Write a DATA step to merge the resulting data set with the orion.country\_n by country to create a new data set work.allcustomer.
* Include only variables customer\_id,country,customer\_name and country\_name in work.allcustomer.
* Modify the DATA step to store only those observations that contain both customer information and country information (use a subsetting IF and IN= variables)

**Code of the program:**

libname orion "d://PA\_2021\_22/Data\_Sets";

**proc** **sort** data= orion.customer

out=work.customer;

by Country;

**run**;

**proc** **sort** data= orion.country\_n;

by Country;

**run**;

**data** work.allcustomer;

merge work.customer(in=cust) orion.country\_n(in=coun);

if cust=**1** and coun =**1**;

keep customer\_id country customer\_name country\_name ;

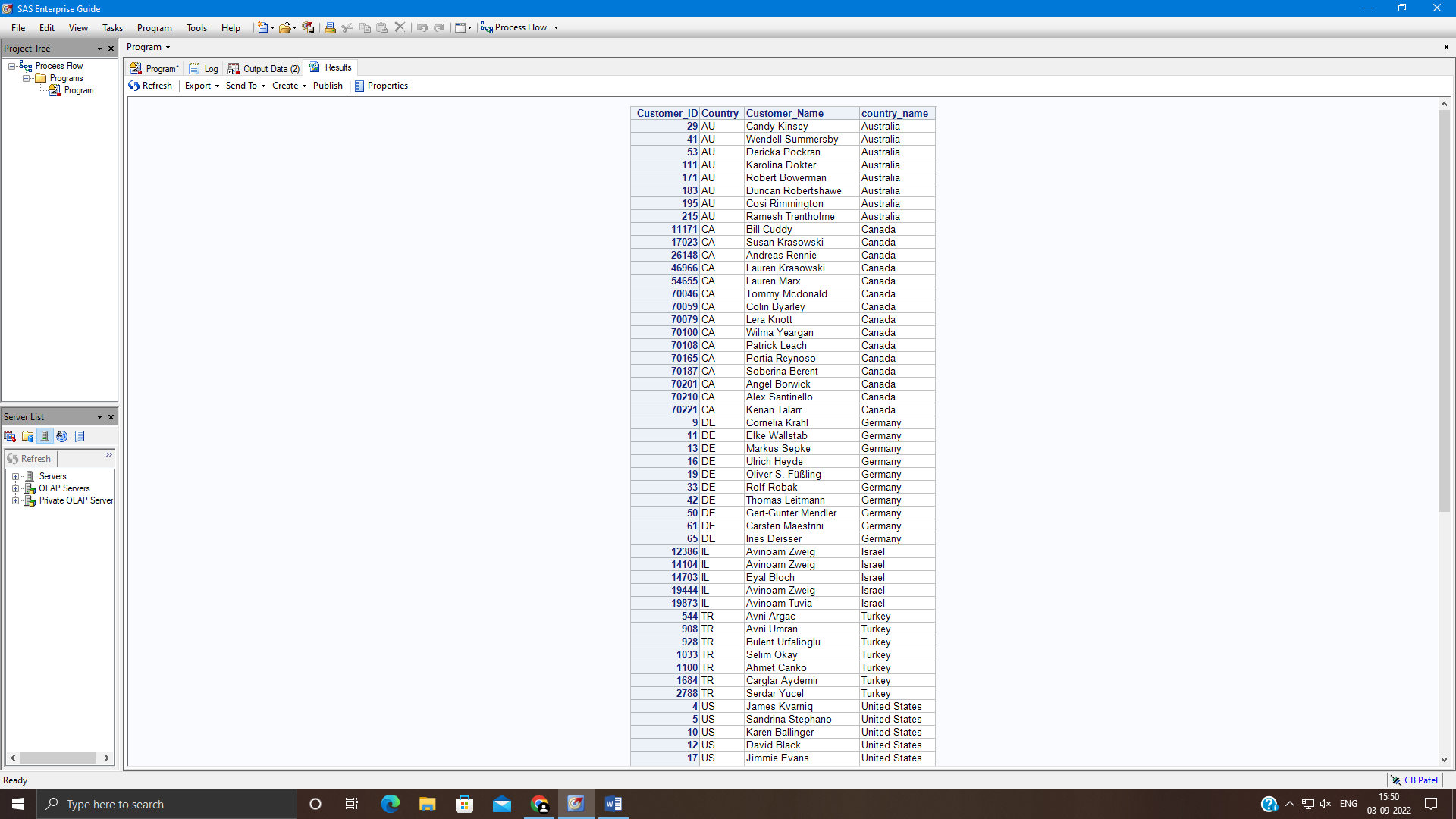
**run**;

**proc** **print** data=work.allcustomer noobs;

id Customer\_ID;

**run**;

**Output of the Program:**



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