**Assignment**

**Aim**: To create SAS data sets and generate various reports using Base SAS constructs.

**Prerequisite:**

1. Understanding of programming constructs of Base SAS

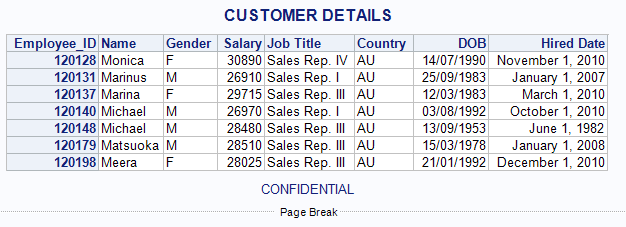
**Outcome:** After successful completion of this experiment students will be able to

1. To create SAS data sets
2. To generate various reports for a given the scenario.

(TO BE COMPLETED BY STUDENTS)

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

1. Use the data set AU\_SALESFORCE and generate the report shown below. (Hint: Subsetting variable: job\_title, first\_name)



LIBNAME orion "D:\\PA\_2021\_22\Data\_Sets";

title "CUSTOMER DETAILS";

footnote"CONFIDENTIAL";

**data** work.aussie;

set orion.au\_salesforce;

where First\_Name like "M%" and Job\_Title contains "Sales Rep.";

**run**;

**proc** **print** data=work.aussie noobs label;

format Birth\_Date ddmmyy10. Hire\_Date worddate. ;

id Employee\_ID;

label Birth\_Date = "DOB"

First\_Name = "Name"

Hire\_Date = "Hired Date"

Job\_Title = "Job Title";

var First\_Name Gender Salary Job\_Title Country Birth\_Date Hire\_Date;

**run**;

1. Create a data set named employees\_info from employees and generate the report shown below. (Note: Subsetting variables/records, labelling and formatting not to be done in PROC step.) . Month hired is the calculated column by applying month function on Hire\_date. (Hint: Subsetting variable month hired <6 and job title). The new data set to contain only the variables listed in the report shown.

LIBNAME orion "D:\\PA\_2021\_22\Data\_Sets";

**data** work.employees\_info ;

set orion.employees;

Month\_Hired = Month(Hire\_Date);

if Month\_Hired < **6** ;

where Job\_Title like "%III";

label Marital\_Status= "Married/Unmarried";

format Marital\_Status mar. Salary dollar12.2;

keep Employee\_ID Job\_Title Gender Salary Marital\_Status Month\_Hired;

**run**;

**proc** **format**;

value $mar 'M' ="Married"

'O'="Unknown"

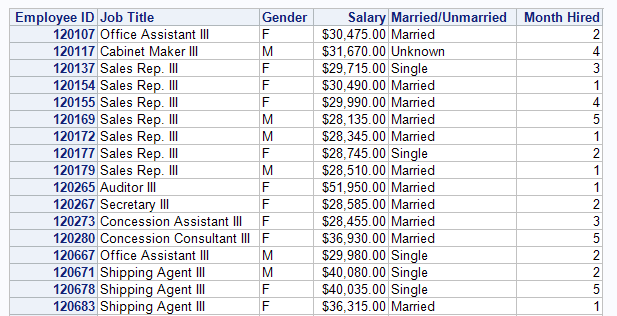
'S'="Sinlge";

**run**;

**proc** **print** data=work.employees\_info noobs label;

id Employee\_ID;

**run**;



1. Create a temporary sorted data set named Employee\_sorted by using employees and generate the below report. (Hint: Subsetting variable: job\_title, gender)

LIBNAME orion "D:\\PA\_2021\_22\Data\_Sets";

**data** work.Employee\_sorted ;

set orion.employees;

format Marital\_Status mar.;

where Job\_Title like "Se%" and Gender contains"F";

**run**;

**proc** **format**;

value $mar 'M' ="Married"

'O'="Unknown"

'S'="Single";

**run**;

**proc** **sort** data= work.employee\_sorted;

by Marital\_Status descending Employee\_ID;

**run**;

**proc** **print** data=work.Employee\_sorted noobs split=" ";

id Employee\_ID;

format Salary DOLLAR12.2 Hire\_date WORDDATE.;

by Marital\_Status;

LABEL Job\_Title = "Position"

Hire\_date = "Date Hired";

VAR Name Job\_Title Department Gender Salary Hire\_date;

**run**;

