**PRACTICAL NO.08**

**Aim: Writing function in PL/SQL block.**

1. **Define and call a function.**
2. **Define and use function in select clause.**
3. **Call function in dbms\_outout.put\_line.**
4. **Count employee from a function and return value back.**
5. **Call function and stored the return value to a variable.**

**A.Define and call a function.**

**PROGRAM:**

SQL> create or replace function fun\_name

2 returnvarchar is

3 begin

4 return 'Rutu';

5 endfun\_name;

6 /

Function created.

SQL> begin

2 dbms\_output.put\_line('My name is '||fun\_name);

3 end;

4 /

**O/P:**

My name is Rutu

PL/SQL procedure successfully completed.

**B.Define and use function in select clause.**

**PROGRAM:**

**Creating table.**

SQL> create table empl\_1(eidnumber,name varchar2(20),salnumber,dept varchar2(2

0),dob date);

Table created.

**Insert record.**

SQL> insert into empl\_1 values('&eid','&name','&sal','&dept','&dob');

Enter value for eid: 101

Enter value for name: Rutu

Enter value for sal: 20000

Enter value for dept: COMPUTER SCIENCE

Enter value for dob: 06 June 1999

old 1: insert into empl\_1 values('&eid','&name','&sal','&dept','&dob')

new 1: insert into empl\_1 values('101','Rutu','20000','COMPUTER SCIENCE','06 J

une 1999')

1 row created.

SQL> /

Enter value for eid: 102

Enter value for name: Shivani

Enter value for sal: 20000

Enter value for dept: COMPUTER SCIENCE

Enter value for dob: 05 June 1998

old 1: insert into empl\_1 values('&eid','&name','&sal','&dept','&dob')

new 1: insert into empl\_1 values('102','Shivani','20000','COMPUTER SCIENCE','0

5 June 1998')

1 row created.

SQL> /

Enter value for eid: 103

Enter value for name: Kanchan

Enter value for sal: 20000

Enter value for dept: COMPUTER SCIENCE

Enter value for dob: 08 Aug 1999

old 1: insert into empl\_1 values('&eid','&name','&sal','&dept','&dob')

new 1: insert into empl\_1 values('103','Kanchan','20000','COMPUTER SCIENCE','0

8 Aug 1999')

1 row created.

SQL> declare

2 first\_name varchar2(30);

3 functionemp\_details return varchar

4 is

5 f\_namevarchar(30);

6 begin

7 select name into f\_name from empl\_1 where eid='101';

8 returnf\_name;

9 endemp\_details;

10 begin

11 first\_name:=emp\_details();

12 dbms\_output.put\_line('First name of selected employee is '||first\_name);

13 end;

14 /

**O/P:**

First name of selected employee is Rutu

PL/SQL procedure successfully completed.

**C.Call function in dbms\_output.put\_line.**

**PROGRAM:**

SQL> create or replace function emp\_call(id number)

2 return number

3 is

4 sal number;

5 begin

6 select sal into sal from empl\_1 where eid=id;

7 sal:=sal\*0.15;

8 return sal;

9 end;

10 /

Function created.

SQL> declare

2 id number:=101;

3 begin

4 dbms\_output.put\_line('Increase salary of employee '||emp\_call(id));

5 end;

6 /

**O/P:**

Increase salary of employee 3000

PL/SQL procedure successfully completed.

**D.Count employee from a function and return value back.**

**PROGRAM:**

SQL> create or replace function totalEmployees

2 return number

3 is

4 total number(2):=0;

5 begin

6 select count(\*) into total

7 from empl\_1;

8 return total;

9 end;

10 /

Function created.

SQL> declare

2 c number(2);

3 begin

4 c:=totalEmployees();

5 dbms\_output.put\_line('Total no. of employees: '||c);

6 end;

7 /

**O/P:**

Total no. of employees: 5

PL/SQL procedure successfully completed.

**E.Write pl/sql block which will execute addition,suntraction,multiplication and division of two integer number.**

**PROGRAM:**

SQL> declare

2 a1 number;

3 s1 number;

4 m1 number;

5 d1 number;

6 function add(n1 number,n2 number)

7 return number

8 is

9 n number;

10 begin

11 n:=n1+n2;

12 return n;

13 end add;

14 function sub(n3 number,n4 number)

15 return number

16 is

17 n number;

18 begin

19 n:=n3-n4;

20 return n;

21 end sub;

22 function mult(n5 number,n6 number)

23 return number

24 is

25 n number;

26 begin

27 n:=n5\*n6;

28 return n;

29 end mult;

30 function div(n7 number,n8 number)

31 return number

32 is

33 n number;

34 begin

35 n:=n7/n8;

36 return n;

37 end div;

38 begin

39 a1:=add(20,10);

40 s1:=sub(30,20);

41 m1:=mult(10,20);

42 d1:=div(20,5);

43 dbms\_output.put\_line('The Addition of 20 and 10 is '||a1);

44 dbms\_output.put\_line('The Subtraction of 30 and 20 is '||s1);

45 dbms\_output.put\_line('The Multiplication of 10 and 20 is '||m1);

46 dbms\_output.put\_line('The Division of 20 and 5 is '||d1);

47 end;

48 /

**O/P:**

The Addition of 20 and 10 is 30

The Subtraction of 30 and 20 is 10

The Multiplication of 10 and 20 is 200

The Division of 20 and 5 is 4

PL/SQL procedure successfully completed.