EXP 10

PROCEDURES

AIM: To execute PROCEDURES in sql

1) Creating Procedure and calling it using EXEC

```
SQL> spool ex11.lst
SQL> create or replace procedure welcome_msg(p_name IN VARCHAR2)
  2  IS
  3  BEGIN
  4  dbms_output.put_line('Welcome'|| p_name);
  5  END;
  6  /

Procedure created.
```

```
SQL> EXEC welcome_msg('Welcome To SRM')

PL/SQL procedure successfully completed.
```

2)Creating Procedure to insert record in user table:

```
SQL> create table user_1(id number(10) primary key,name varchar2(100));

Table created.
```

```
SQL> create or replace procedure "INSERTUSER"
  2  (id IN NUMBER,
  3  name IN VARCHAR2)
  4  is
  5  begin
  6  insert into user values(id,name);
  7  end;
  8  /

Warning: Procedure created with compilation errors.
```

```
SQL> BEGIN
  2     insert into user_1 values(101,'Rahul');
  3     dbms_output.put_line('record inserted successfully');
  4  END;
  5  /

PL/SQL procedure successfully completed.
```

```
SQL> select * from user_1;

        ID
----------
NAME
--------------------------------
       101
Rahul
```

```
SQL> set serveroutput on
SQL> declare
  2  a number;
  3  b number;
  4  c number;
  5  begin
  6  a:=&a;
  7  b:=&b;
  8  c:=a+b;
  9  dbms_output.put_line('sum of'||a||'and'||b||'is'||c);
 10  end;
 11  /
Enter value for a: 23
old   6: a:=&a;
new   6: a:=23;
Enter value for b: 12
old   7: b:=&b;
new   7: b:=12;
sum of23and12is35

PL/SQL procedure successfully completed.
```

```
SQL> DECLARE
  2  b number;
  3  c number;
  4  BEGIN
  5  B:=10;
  6  C:=20;
  7  if(C>B) THEN
  8  dbms_output.put_line('C is maximum');
  9  end if;
 10  end;
 11  /
C is maximum

PL/SQL procedure successfully completed.
```

```
SQL> declare
  2  n number;
  3  begin
  4  dbms_output. put_line('enter a number');
  5  n:=&number;
  6  if n<5 then
  7  dbms_output.put_line('entered number is less than 5');
  8  else
  9  dbms_output.put_line('entered number is greater than 5');
 10  end if;
 11  end;
 12  /
Enter value for number: 2
old   5: n:=&number;
new   5: n:=2;
enter a number
entered number is less than 5

PL/SQL procedure successfully completed.
```

```
SQL> declare
  2  a number;
  3  b number;
  4  c number;
  5  d number;
  6  begin
  7  a:=&a;
  8  b:=&b;
  9  c:=&b;
 10  if(a>b)and(a>c) then
 11  dbms_output.put_line('A is maximum');
 12  elsif(b>a)and(b>c)then
 13  dbms_output.put_line('B is maximum');
 14  else
 15  dbms_output.put_line('C is maximum');
 16  end if;
 17  end;
 18  /
Enter value for a: 21
old   7: a:=&a;
new   7: a:=21;
Enter value for b: 12
old   8: b:=&b;
new   8: b:=12;
Enter value for b: 45
old   9: c:=&b;
new   9: c:=45;
C is maximum

PL/SQL procedure successfully completed.
```

```
SQL> declare
  2  n number;
  3  sum1 number default 0;
  4  endvalue number;
  5  begin
  6  endvalue:=&endvalue;
  7  n:=1;
  8  for n in 1..endvalue
  9  loop
 10  if mod(n,2)=1
 11  then
 12  sum1:=sum1+n;
 13  end if;
 14  end loop;
 15  dbms_output.put_line('sum ='||sum1);
 16  end;
 17  /
Enter value for endvalue: 4
old   6: endvalue:=&endvalue;
new   6: endvalue:=4;
sum =4

PL/SQL procedure successfully completed.
```

```
SQL> declare
  2  n number;
  3  sum1 number default 0;
  4  endvalue number;
  5  begin
  6  endvalue:=&endvalue;
  7  n:=1;
  8  while(n<endvalue)
  9  loop
 10  sum1:=sum1+n;
 11  n:=n+2;
 12  end loop;
 13  dbms_output.put_line('sum of odd no. bt 1 and' ||endvalue||'is'||sum1);
 14  end;
 15  /
Enter value for endvalue: 4
old   6: endvalue:=&endvalue;
new   6: endvalue:=4;
sum of odd no. bt 1 and4is4
```

RESULT: Procedures in sql were successfully executed

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