Task-7(a)
23/09/25 Task 7 : PL/SQL Procedure for loops

Aim :- To implement PL/SQL procedures, Functions and loops on Number theory and business Scenarios.

Procedure :-

PL/SQL is a combination of SQL along with the procedural features of programming languages. It was developed by Oracle Coorporation of SQL-PL/SQL is one, three key Programming languages embedded in oracle database, along with SQL itself and Java.

6 Simple program to print a sentence :-

Syntax :-
```
DECLARE
    <declaration section>
BEGIN
    < executable section>
EXCLPTION
    <exception handling>
END;
```

Program :
```
DECLARE
    message varchar(20) := 'booking closed';
BEGIN
    dbms_output.put_line(message);
END;
```

Dynamic Input :
```
Set serveroutput on;
declare
    x number(5);
    y number(5);
    z number(9);
begin
    x := 10;
    y := 12;
    z := x + y;
```

```
        dbms_output.put_line ('sum is '||z);
    end;
/
```

Output : Sum is 22

```
declare
var 1 integer;
var 2 integer;
var 3  integer;
begin
var1 : = &var 1;
var2 : = &var 2;
var 3 := var 1 + var 2;
 dbms_output.put_line(var 3);
end;
/
```

```
Enter values for var1 : 20
old 6 : var 1 : = &var 1;
new 6 : var 1 : = 20;
Enter value for var2 : 30
old 7 :  var2 : = &var 2;
new 7 :  var2 : = 30;
50
```

```
Declare
    hid Number (3) : = 100;
Begin
   if (hid = 10) then
      dbms_output.put_line ('value of hid is 10');
   else if (hid = 20) then
      dbms_output.put_line ('value of hid is 20');
    else if (hid = 30) then
      dbms_output.put_line ('value of hid is 30');
    else
      dbms_output.put_line ('None of the values is matching');
   End if ;
      dbms_output.put_line ('Exact value of hid is :'||hid);
END;
```

Output:

None of the value is matching
exact value of hid is : 100

```
Declare
    hid number(1);
    old number(1);
Begin
    <<outer_loop>>
    for hid in 1...3 loop
    <<inner loop>>
   for old in 1...3 loop
   dbms_output.Put_line('hid is : '|| hid || and old is :'|| old);
 end loop inner_loop;
 End loop outer_loop;
  end;
/
```

Output:

```
hid is : 1 and old is : 1
hid is : 1 and old is : 2
hid is : 1 and old is : 3
hid is : 2 and old is : 1
hid is : 2 and old is : 2
hid is : 2 and old is : 3
hid is : 3 and old is : 1
hid is : 3 and old is : 2
hid is : 3 an old is : 3
```

Program for only Procedure:

```
create or replace procedure csinformation
(c_id in number, c_name in varchar2)
is
begin
dbms_output.put_line('ID:'|| c_id);
dbms_output.put_line('Name:'|| c_name);
end;
/
```

Procedure created

```
exec cs information (100,'ram');
```

PL/SQL Procedure Successfully completed.

```
Set server output on;
exec cs information (101,'raam');
ID : 101
Name : room
```

Program :

```
create or replace function cs information
(h.id in number, c.name in varchar2)
Return varchar 2
IS
Begin
if( id > 200 then
Return ('no booking available');
Else
Return ('booking ope');
end if ;
End;
function created.

declare
mesg varchar 2(200);
begin
mesg := cs information (102,'room');
dbms_output.Put_line (mesg);
end ;
/
Vehicle available

declare
mesg varchar 2 (200);
begin
mesg := cs information (206,'room');
dbms_output.Put_line (mesg);
end;
/
No vehicle available.
```

VEL TECH	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYS'S (5)	5
VIVA VOCE (5)	5
RECORD (5)	—
TOTAL (20)	10
SIGN WITH DATE	

Result :

Thus the implementation PL/SQL Procedures functions c
loops on number theory and business sceneries 23/9/2 comple

23/09/25 PL/SQL Procedure for loops

Aim:- To implement PL/SQL programs using loops for printing Prime number Customer ID s and for demonstrating loop control in different scenarios.

Procedure :-

1. Start a PL/SQL block or procedure
2. use a cursor to fetch customer ID from a table.
3. For each ID, check whether it is a prime number using a loop.
4. Use for loop / while loop to demonstrate prime number checking
5. Print the result using dbms_output.put_line.
6. End the block.

```
create or replace procedure print prime Customer Is
   Cursor  cust_cur is
     Select customer_id from Customers;
    v_id Numbers;
    v_is_Prime Boolean;
     v_i Number;
BEGIN.
    Opean  cust_cur;
     loop
     fetch  cust_cur into v_id;
     Exit when cust_cur %. Not found;
     If  vid <= 2 then
         v_id prime = false;
     Else
         v_is_prime := True:
         v_i :=2;
         While  v_i <= Tranc (sort (v_id)) loop
         If  mod(v_id, v_i) =0 THEN
         v_is_prime := false
            Exit;
          END IF;
            v_id := v_i +1;
         END LOOP;
         END IF;
        If v_is_prime THEN
       DBMS_Output.Put_line ('Prime customer ID : '||v_id
    END IF;
    END loop;
```

```
END;
/
create or replace procedure print_first_n_prime
(n Number) is
  v_num_number := 2;
  v_count_number := 0;
   v_is_prime Boolean;
Begin
    while v_count < n loop
    v_is_prime := True;
    FOR I IN 2 . TRUNC (SQRT (V_num)) loop
     v_count := v_count + 1;
    End If ;
     v_num := v_num + 1 ;
   End loop;
END;
```

VEL TECH	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	-
TOTAL (20)	15
SIGN WITH DATE	

Result:

The implementation of PL/SQL programs using for ops for printing prime number customerids was successfully completed.

23/9/15