**Experiment No.2**

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**Div: B Batch: B2 Class: TY CSE**

**PRN: 21ST114282045**

**Title: Implement Procedures, Functions and Cursor in PL/SQL.**

**Problem statement**

1. **Implement procedures in PL/SQL.**

**1. Create a standalone procedure to display a simple message ‘Hello’.**

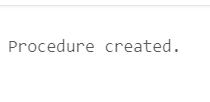
create or replace procedure msg

AS

BEGIN

dbms\_output.put\_line('Hello');

END;

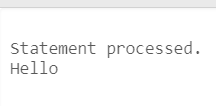


**2. Call the created procedure through a PL/SQL block.**

begin

msg;

end;



**3. Create a procedure to display a simple message ‘Hello’ inside PL/SQL block.**

Declare

procedure display

is

Begin

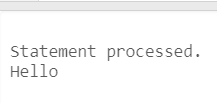
Dbms\_output.put\_line(‘Hello’;)

End;

Begin

Display;

End;



**4. Create a procedure to find square of a number using two different modes of**

**parameter passing.**

**a. IN , OUT mode**

Declare

Result number;

Procedure find\_square(x in number, y out number)

Is

Begin

y:=x\*x;

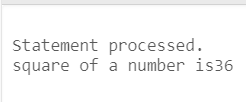
end;

begin

find\_square(6,result);

dbms\_output.put\_line(‘square of a number is’||result);

end;



**b. IN OUT mode.**

Declare

Result number;

Procedure find\_square(x in out number)

Is

Begin

x:=x\*x;

end;

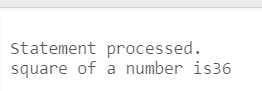
begin

result:=6;

find\_square(result);

dbms\_output.put\_line(‘square of a number is’||result);

end;



**5. Create table Student with attributes roll\_no, name, address, contact\_no.**

Create table student

(

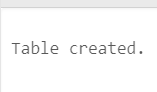
roll\_no number,

name varchar(20),

address varchar(20),

contact\_no number(10)

);



**6. Create a procedure to insert 4 values in Student table.**

Declare

procedure insert\_val(

s\_roll student.roll\_no %type,

s\_name student.name %type,

s\_addr student.address %type,

s\_contact student.contact\_no %type

)

Is

Begin

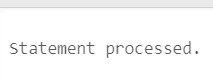
Insert into student values(s\_roll, s\_name, s\_addr, s\_contact);

End;

Begin

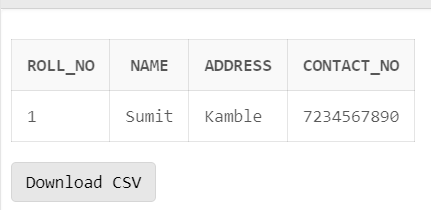
insert\_val(1,'Sumit','Kamble', 7234567890);

End;



**7. Print the student table.**

Select \* from student;



1. **Implement Functions and Cursor in PL/SQL.**

**1. Create a standalone function to display a simple message ‘Hello’.**

CREATE OR REPLACE FUNCTION msgg

return varchar2

AS

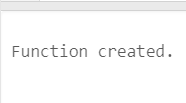
str varchar2(20);

BEGIN

str:='HELLO';

return str;

END;



DECLARE

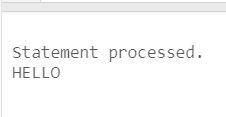
str1 varchar2(20);

BEGIN

str1:=msgg;

dbms\_output.put\_line(str1);

END;



**2. Create a function to add two numbers.**

DECLARE

a number;

b number;

c number;

FUNCTION add(x IN number, y IN number)

RETURN number

IS

z number;

BEGIN

z:=x+y;

return z;

END;

BEGIN

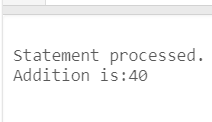
a:=10;

b:=20;

c:=add(a,b);

dbms\_output.put\_line(‘Addition is:’||c);

END;



**3. Create a table ‘student’ with attributes roll\_no, name, address, contact.**

CREATE TABLE student

(

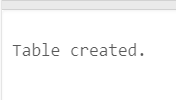
roll\_no number,

name varchar2(25),

address varchar2(50),

contact number(10)

);



**4. Create a function to insert values inside ‘student’ table.**

**5. Insert following values in ‘student’ table using created function.**

DECLARE

a number;

function insert\_val

(

s\_id student.roll\_no %type,

s\_name student.name %type,

s\_address student.address %type,

s\_contact\_no student.contact\_no %type

)

return number

as

x number;

begin

x:=1;

insert into student values(s\_id, s\_name, s\_address, s\_contact\_no);

return x;

end;

begin

a:=insert\_val(1,'Sumit','pune',8746958608);

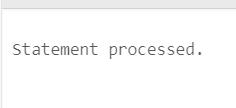
a:=insert\_val(2,'Shubham','mumbai',8746958908);

a:=insert\_val(3,'Yash','kolhapur',8946958608);

a:=insert\_val(4,'Raj','karad',9946958608);

a:=insert\_val(5,'pankaj','pune',8746058608);

end;



**6. Create a cursor to print all the values from ‘student’ table.**

declare

s\_no student1.roll\_no %type;

s\_name student1.name %type;

s\_address student1.address %type;

s\_phn\_no student1.phn\_no %type;

cursor c\_stud IS select roll\_no, name, address, phn\_no from student1;

begin

open c\_stud;

loop

fetch c\_stud into s\_no, s\_name, s\_address, s\_phn\_no;

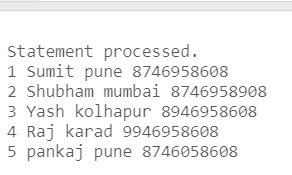
EXIT when c\_stud %notfound;

dbms\_output.put\_line(s\_no||' '||s\_name||' '||s\_address||' '||s\_phn\_no||' ');

End loop;

close c\_stud;

end;



**7. Create a function to find the name of the student whose id is 2.**

declare

str2 varchar(50);

function find\_name(s\_id student1.roll\_no %type)

return varchar

IS

s\_name student1.name % type;

BEGIN

select name into s\_name from student1 where roll\_no=s\_id;

return s\_name;

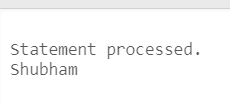
END;

BEGIN

str2:=find\_name(2);

dbms\_output.put\_line(str2);

END;



**8. Create a function to update the name of the student to ‘roma’ whose id is 4.**

DECLARE

str3 varchar(50);

function update\_rec(s\_id student1.roll\_no %type)

return varchar

IS

s\_name student1.name % type;

BEGIN

update student1 SET name='roma' where roll\_no=s\_id;

return s\_name;

END;

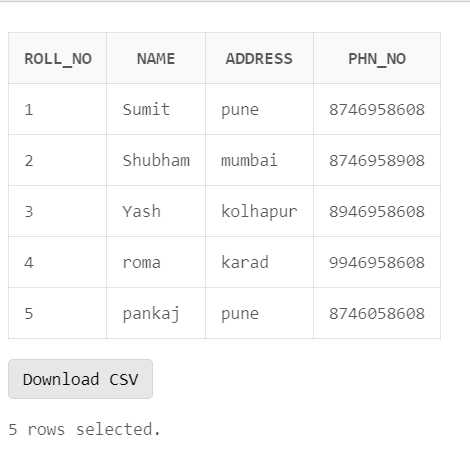
BEGIN

str3:=update\_rec(4);

dbms\_output.put\_line(str3);

END;

select \* from student1;



**9. Create a function to delete a record of a student whose id is 3.**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

DECLARE

str4 varchar(50);

function delete\_rec(s\_id student1.roll\_no %type)

return varchar

IS

s\_name student1.name %type;

BEGIN

delete from student1 where roll\_no=s\_id;

return s\_name;

END;

BEGIN

str4:=delete\_rec(3);

dbms\_output.put\_line(str4);

END;

