

Course Name: DBMS Lab

Course Code: CSEG2146

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Experiment 13:

Title: To understand the concepts of PL/SQL programming.

Objective: Students will be able to implement the basic concepts of Pl/SQL.

1. Write a PL/SQL code to accept the value of A, B & C display which is greater.

```
CREATE OR REPLACE PROCEDURE find_greatest (a IN NUMBER, b IN NUMBER, c IN NUMBER) IS

BEGIN

IF a > b AND a > c THEN

DBMS_OUTPUT.PUT_LINE('A is the greatest: ' || a);

ELSIF b > a AND b > c THEN

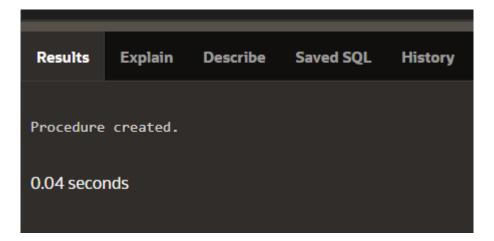
DBMS_OUTPUT.PUT_LINE('B is the greatest: ' || b);

ELSE

DBMS_OUTPUT.PUT_LINE('C is the greatest: ' || c);

END IF;

END find_greatest;
```



2. Using PL/SQL Statements create a simple loop that display message "Welcome to PL/SQL Programming" 20 times.

```
DECLARE
i NUMBER := 1;
BEGIN
LOOP
DBMS_OUTPUT.PUT_LINE('Welcome to PL/SQL Programming');
i := i + 1;
EXIT WHEN i > 20;
END LOOP;
END;
```

```
Welcome to PL/SQL Programming
Statement processed.
0.02 seconds
🔎 anoushka13pandey@gmail.com 🗧 anoushka_20 🌐 en
```

3. Write a PL/SQL code block to find the factorial of a number.

```
CREATE OR REPLACE FUNCTION get_factorial(n NUMBER)

RETURN NUMBER

IS

factorial NUMBER := 1;

BEGIN

FOR i IN 1..n LOOP

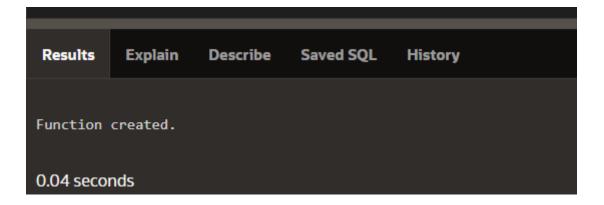
factorial := factorial * i;

END LOOP;

RETURN factorial;

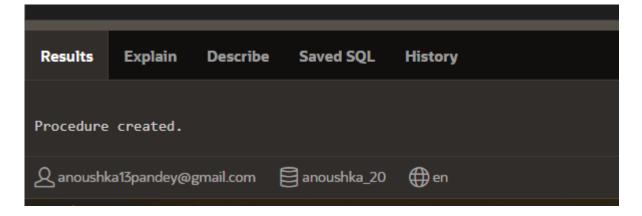
END;

/
```



4. Write a PL/SQL program to generate Fibonacci series.

```
CREATE OR REPLACE PROCEDURE print_fibonacci(n NUMBER)
       a NUMBER := 0;
       b NUMBER := 1;
       next_num NUMBER;
       DBMS OUTPUT.PUT LINE(a);
       DBMS_OUTPUT.PUT_LINE(b);
       FOR i IN 2...n LOOP
11
         next num := a + b;
12
         DBMS OUTPUT.PUT LINE(next num);
13
         a := b;
         b := next_num;
       END LOOP;
     END;
17
```



5. Write a PL/SQL code to fund the sum of first N numbers

```
1  -- Sum of First N Numbers
2  CREATE OR REPLACE FUNCTION get_sum_of_n(n NUMBER)
3  RETURN NUMBER
4  IS
5     sum_of_n NUMBER := 0;
6  BEGIN
7     FOR i IN 1..n LOOP
8     sum_of_n := sum_of_n + i;
9     END LOOP;
10     RETURN sum_of_n;
11  END;
12  /
```

