**Class Test 13**

**PL/SQL**

*To solve the following use the scott schema*

1. Write a query that can display the salary of employee JONES three times using basic loop.
2. Write a query that can display the salary of employee JONES three times using while loop.
3. Write a query that can display the salary of employee JONES three times using for loop.
4. Create a function that returns the total number of departments.
5. Create a procedure to update the salary of employee Allen to 100.

**Answer**:

PL/**SQL**

*--Enable Output*

**set** serveroutput **on**;

1. **DECLARE**

i INT := 1;

emp\_salary NUMBER;

**BEGIN**

**SELECT** sal **INTO** emp\_salary **FROM** emp **WHERE** ename = 'JONES';

LOOP

EXIT **WHEN** i > 3;

DBMS\_OUTPUT.PUT\_LINE('Employee JONES Salary: ' || emp\_salary);

i := i + 1;

**END** LOOP;

**END**;

/

2. **DECLARE**

i INT := 1;

emp\_salary NUMBER;

**BEGIN**

**SELECT** sal **INTO** emp\_salary **FROM** emp **WHERE** ename = 'JONES';

WHILE i <= 3 LOOP

DBMS\_OUTPUT.PUT\_LINE('Employee JONES Salary: ' || emp\_salary);

i := i + 1;

**END** LOOP;

**END**;

/

3. **DECLARE**

emp\_salary NUMBER;

**BEGIN**

**SELECT** sal **INTO** emp\_salary **FROM** emp **WHERE** ename = 'JONES';

**FOR** i **IN** 1..3 LOOP

DBMS\_OUTPUT.PUT\_LINE('Employee JONES Salary: ' || emp\_salary);

**END** LOOP;

**END**;

/

4. **CREATE** **OR** **REPLACE** **FUNCTION** get\_total\_departments **RETURN** NUMBER **IS**

total\_departments NUMBER;

**BEGIN**

**SELECT** **COUNT**(\*) **INTO** total\_departments **FROM** dept;

**RETURN** total\_departments;

**END**;

/

5. **CREATE** **OR** **REPLACE** **PROCEDURE** update\_employee\_salary **AS**

**BEGIN**

**UPDATE** emp

**SET** sal = 100

**WHERE** ename = 'Allen';

**COMMIT**;

**END**;

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