

## Group A: Lab Assignment No.7

**TITLE: PL/SQL Stored Procedure and Stored Function.**

**Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scored by students in examination is  $\leq 1500$  and marks  $\geq 990$  then student will be placed in distinction category if marks scored are between 989 and 900 category is first class, if marks 899 and 825 category is Higher Second Class.**

**Write a PL/SQL block for using procedure created with above requirement.**

**Stud\_Marks(name, total\_marks)**

**Result(Roll,Name, Class)**

**Frame the separate problem statement for writing PL/SQL Stored Procedure and function, inline with above statement. The problem statement should clearly state the requirements.**

```
SQL> CREATE TABLE stud_marks(name VARCHAR2(25),total_marks NUMBER);
```

Table created.

```
SQL> CREATE TABLE result(roll_number NUMBER , name VARCHAR2(25), class VARCHAR2(30));
```

Table created.

```
SQL> CREATE OR REPLACE PROCEDURE proc_grades ( roll_no IN NUMBER, name IN VARCHAR2 ,marks IN NUMBER)
2 AS
3 BEGIN
4   IF (marks<=1500 and marks>=990) THEN
5     DBMS_OUTPUT.PUT_LINE (roll_no||'-'||name||': DISTINCTION');
6     INSERT INTO result VALUES (roll_no,name,'DISTINCTION');
7   ELSEIF (marks<=989 and marks>=900) THEN
8     DBMS_OUTPUT.PUT_LINE (roll_no||'-'||name||': FIRST CLASS');
9     INSERT INTO result VALUES (roll_no,name,'FIRST CLASS');
10  ELSEIF (marks<=899 and marks>825) THEN
11    DBMS_OUTPUT.PUT_LINE(roll_no||'-'||name||': HIGHER SECOND CLASS');
12    INSERT INTO result VALUES (roll_no,name,'HIGHER SECOND CLASS');
13  ELSE
14    DBMS_OUTPUT.PUT_LINE (roll_no||'-'||name||': FAIL');
15    INSERT INTO result VALUES (roll_no,name,'FAIL');
16  END IF;
17  INSERT INTO stud_marks VALUES (name,marks);
18 END proc_grades ;
19 /
```

Procedure created.

```
SQL> BEGIN
2 proc_grades (54,'SUDARSHAN',1000);
3 proc_grades (46,'ARYAN ',950);
4 proc_grades (58,'ARJUN ',1050);
5 proc_grades (14,'Aanika',995);
6 proc_grades (19,'Suhani',889);
7 proc_grades (16,'Kartiki',965);
8 proc_grades (10,'Shalima',900);
9 proc_grades (20,'Kusum',777);
10 END;
11 /
```

PL/SQL procedure successfully completed.

SQL> select \*from result ;

ROLL_NUMBER	NAME	CLASS
54	SUDARSHAN	DISTINCTION
46	ARYAN	FIRST CLASS
58	ARJUN	DISTINCTION
14	Aanika	DISTINCTION
19	Suhani	HIGHER SECOND CLASS
16	Kartiki	FIRST CLASS
10	Shalima	FIRST CLASS
20	Kusum	FAIL

8 rows selected.

SQL> select \*from stud\_marks ;

NAME	TOTAL_MARKS
SUDARSHAN	1000
ARYAN	950
ARJUN	1050
Aanika	995
Suhani	889
Kartiki	965
Shalima	900
Kusum	777

8 rows selected.

SQL>