

DBMS Practical

DBMS Practical-Stored Function

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Program:-

```
CREATE FUNCTION proc_Grade(marks NUMBER)
RETURN VARCHAR2 IS
    category VARCHAR2(50);
BEGIN
    IF marks >= 990 AND marks <= 1500 THEN
        category := 'Distinction';
    ELSIF marks >= 900 AND marks <= 989 THEN
        category := 'First Class';
    ELSIF marks >= 825 AND marks <= 899 THEN
        category := 'Higher Second Class';
    ELSE
        category := 'Fail';
    END IF;

    RETURN category;
END proc_Grade;
/
```

StoredFunction_.sql

```
DECLARE
    v_roll NUMBER;
    v_name VARCHAR2(50);
    v_total_marks NUMBER;
    v_class VARCHAR2(50);
BEGIN
    FOR student_rec IN (SELECT * FROM Stud_Marks) LOOP
        v_roll := student_rec.roll;
        v_name := student_rec.name;
        v_total_marks := student_rec.total_marks;
        v_class := proc_Grade(v_total_marks);
        INSERT INTO Result (Roll, Name, Class) VALUES (v_roll, v_name, v_class);
    END LOOP;
    COMMIT;
END;
/
```

Output:-

```
SQL> CREATE TABLE Result (Roll int, Name varchar(20), class varchar(20));
Table created.
```

```
SQL> CREATE TABLE Stud_Marks(Name varchar(20), total_marks int);
Table created.
```

```
SQL> INSERT INTO Stud_Marks(Name, total_marks) VALUES ('ROHAN', 9700);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Name, total_marks) VALUES ('ANURAG', 1000);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Name, total_marks) VALUES ('PRANAV', 9800);
1 row created.
```

```
SQL> SET SERVEROUTPUT ON;
SQL> @ StoredFunction.sql
Function created.
```

```
SQL> DROP TABLE STUD_MARKS;
Table dropped.
```

```
SQL> CREATE TABLE Stud_Marks(ROLL int, Name varchar(20), total_marks int);
Table created.
```

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (101,'ROHAN', 9700);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (102,'Anurag', 1000);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (103,'Shubham', 9500);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (104,'Suresh', 8900);
1 row created.
```

```
SQL> @StoredFunction_.sql
PL/SQL procedure successfully completed.
```

```
SQL> select * from Result;
```

ROLL NAME	CLASS

101 ROHAN	Fail
102 Anurag	Distinction
103 Shubham	Fail
104 Suresh	Fail

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (103,'Yash', 900);
1 row created.
```

```
SQL> INSERT INTO Stud_Marks(Roll, Name, total_marks) VALUES (105,'Ravi', 826);
1 row created.
```

```
SQL> @StoredFunction_.sql
PL/SQL procedure successfully completed.
```

```
SQL> select * from Result;
```

ROLL NAME	CLASS
101 ROHAN	Fail
102 Anurag	Distinction
103 Shubham	Fail
104 Suresh	Fail
103 Yash	First Class
105 Ravi	Higher Second Class

```
6 rows selected.
```

```
SQL>
```