**Name: Rohan C. Dhadke**

**Roll No. 13136**

**Practical No. 6 Stored Function**

**StoredFunction.sql**

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\*Plus: Release 21.0.0.0.0 - Production on Tue Oct 10 03:37:30 2023

Version 21.3.0.0.0

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Enter user-name: SYSTEM

Enter password:

Last Successful login time: Tue Oct 10 2023 03:03:43 -07:00

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

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

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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>