

practical 5

Named PL/SQL Block: 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 ≤ 1500 and marks ≥ 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 to use procedure created with above requirement.

Stud_Marks(name, total_marks)

Result(Roll, Name, Class)

Note: Instructor will frame the problem statement for writing stored procedure and Function in line with above statement.

Code=>>>

```
-- Create the Stud_Marks table to store student details and marks
```

```
CREATE TABLE Stud_Markss (  
  name VARCHAR(50),  
  total_marks INT  
);
```

```
-- Create the Result table to store the categorized results
```

```
CREATE TABLE Resultt (  
  Roll INT AUTO_INCREMENT PRIMARY KEY,  
  Name VARCHAR(50),  
  Class VARCHAR(50)  
);
```

```
DELIMITER $$
```

```
CREATE PROCEDURE proc_Grade()
```

```
BEGIN
```

```
-- Insert students with Distinction category
```

```
INSERT INTO Result (Name, Class)
```

```
SELECT name, 'Distinction'
```

```
FROM Stud_Marks
```

```
WHERE total_marks BETWEEN 990 AND 1500;
```

```
-- Insert students with First Class category
INSERT INTO Result (Name, Class)
SELECT name, 'First Class'
FROM Stud_Marks
WHERE total_marks BETWEEN 900 AND 989;
```

```
-- Insert students with Higher Second Class category
INSERT INTO Result (Name, Class)
SELECT name, 'Higher Second Class'
FROM Stud_Marks
WHERE total_marks BETWEEN 825 AND 899;
```

```
-- Optionally handle students with no category
INSERT INTO Result (Name, Class)
SELECT name, 'No Category'
FROM Stud_Marks
WHERE total_marks < 825;
```

```
END$$
```

```
DELIMITER ;
```

```
-- Insert sample data into Stud_Marks table
INSERT INTO Stud_Marks (name, total_marks) VALUES ('Alice', 1400);
INSERT INTO Stud_Marks (name, total_marks) VALUES ('Bob', 950);
INSERT INTO Stud_Marks (name, total_marks) VALUES ('Charlie', 880);
INSERT INTO Stud_Marks (name, total_marks) VALUES ('David', 820);
```

```
-- Call the stored procedure
CALL proc_Grade();
```

```
-- Check the Result table
SELECT * FROM Result;
```