```
mysql> CREATE database result;
Query OK, 1 row affected (0.01 sec)

mysql> use result;
Database changed
mysql> CREATE TABLE Stud_Marks (
    ->      Roll INT AUTO_INCREMENT PRIMARY KEY,
    ->      Name VARCHAR(50),
    ->      Total_Marks INT
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Result (
    ->      Roll INT,
    ->      Name VARCHAR(50),
    ->      Class VARCHAR(30)
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> DELIMITER $$
mysql> CREATE PROCEDURE proc_Grade()
    -> BEGIN
    ->      DECLARE done INT DEFAULT 0;
    ->      DECLARE v_Roll INT;
    ->      DECLARE v_Name VARCHAR(50);
    ->      DECLARE v_Total INT;
    ->      DECLARE v_Class VARCHAR(30);
    ->
    ->      -- Cursor to loop through all students
    ->      DECLARE stud_cursor CURSOR FOR
    ->          SELECT Roll, Name, Total_Marks FROM Stud_Marks;
    ->
    ->      -- Handler for end of cursor
    ->      DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
    ->
    ->      -- Open cursor and start looping
    ->      OPEN stud_cursor;
    ->      read_loop: LOOP
    ->          FETCH stud_cursor INTO v_Roll, v_Name, v_Total;
    ->
    ->          IF done = 1 THEN
    ->              LEAVE read_loop;
    ->          END IF;
    ->
    ->          -- Determine class based on marks
    ->          IF v_Total BETWEEN 990 AND 1500 THEN
    ->              SET v_Class = 'Distinction';
    ->          ELSEIF v_Total BETWEEN 900 AND 989 THEN
    ->              SET v_Class = 'First Class';
    ->          ELSEIF v_Total BETWEEN 825 AND 899 THEN
    ->              SET v_Class = 'Second Class';
    ->          ELSE
    ->              SET v_Class = 'Fail';
    ->          END IF;
    ->
    ->          -- Insert result into Result table
    ->          INSERT INTO Result (Roll, Name, Class)
    ->          VALUES (v_Roll, v_Name, v_Class);
    ->      END LOOP;
    ->
    ->      CLOSE stud_cursor;
    -> END $$
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> DELIMITER ;
mysql> INSERT INTO Stud_Marks (Name, Total_Marks)
    -> VALUES
    ->     ('Aditi', 995),
    ->     ('Siddhi', 970),
    ->     ('Saniya', 890),
    ->     ('Saloni', 980),
    ->     ('ABC', 700);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> CALL proc_Grade();
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM Result;
+------+--------+-------------+
| Roll | Name   | Class       |
+------+--------+-------------+
|    1 | Aditi  | Distinction |
|    2 | Siddhi | First Class |
|    3 | Saniya | Second Class|
|    4 | Saloni | First Class |
|    5 | ABC    | Fail        |
+------+--------+-------------+
5 rows in set (0.00 sec)
```