

```
mysql> use student;
Database changed
```

```
mysql> CREATE TABLE Students (
->     ID INT PRIMARY KEY,
->     Name VARCHAR(50),
->     Marks INT
-> );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into student values (1,'sim', 65);
ERROR 1146 (42S02): Table 'student.student' doesn't exist
mysql> insert into students values (1,'sim', 65);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into students values (2,'avni', 75);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into students values (3,'aayu', 87);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into students values (4,'kkkr', 37);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into students values (5,'rhgy', 96);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE DisplayGrade(IN student_id INT)
-> BEGIN
->     DECLARE student_marks INT;
->     DECLARE student_grade CHAR(1);
->
->     -- Retrieve student marks
->     SELECT Marks INTO student_marks FROM Students WHERE ID = student_id;
->
->     -- Determine grade
->     IF student_marks >= 90 THEN
->         SET student_grade = 'A';
->     ELSEIF student_marks >= 80 THEN
->         SET student_grade = 'B';
->     ELSEIF student_marks >= 70 THEN
->         SET student_grade = 'C';
->     ELSEIF student_marks >= 60 THEN
->         SET student_grade = 'D';
->     ELSE
->         SET student_grade = 'F';
->     END IF;
```

```

->
->      -- Display student grade
->      SELECT CONCAT('Grade for student ', student_id, ' is ', student_grade)
AS Result;
-> END //
Query OK, 0 rows affected (0.02 sec)

```

```

mysql>
mysql> CALL DisplayGrade(1);
+-----+
| Result                |
+-----+
| Grade for student 1 is D |
+-----+
1 row in set (0.03 sec)

```

Query OK, 0 rows affected (0.04 sec)

```

mysql> CALL DisplayGrade(5);
+-----+
| Result                |
+-----+
| Grade for student 5 is A |
+-----+
1 row in set (0.00 sec)

```

Query OK, 0 rows affected (0.01 sec)

```

mysql> DROP PROCEDURE IF EXISTS DisplayGrade;
Query OK, 0 rows affected (0.04 sec)

```

```

mysql> DELIMITER //
mysql>
mysql> CREATE FUNCTION GetGrade(student_marks INT) RETURNS CHAR(1) DETERMINISTIC
-> BEGIN
->     DECLARE student_grade CHAR(1);
->
->     -- Determine grade
->     IF student_marks >= 90 THEN
->         SET student_grade = 'A';
->     ELSEIF student_marks >= 80 THEN
->         SET student_grade = 'B';
->     ELSEIF student_marks >= 70 THEN
->         SET student_grade = 'C';
->     ELSEIF student_marks >= 60 THEN
->         SET student_grade = 'D';
->     ELSE
->         SET student_grade = 'F';
->     END IF;

```

```
->
->      RETURN student_grade;
-> END//
```

Query OK, 0 rows affected (0.03 sec)

```
mysql>
mysql> DELIMITER ;
mysql> SELECT GetGrade(85);
```

```
+-----+
| GetGrade(85) |
+-----+
| B           |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT GetGrade(24);
```

```
+-----+
| GetGrade(24) |
+-----+
| F           |
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT GetGrade(68);
```

```
+-----+
| GetGrade(68) |
+-----+
| D           |
+-----+
```

1 row in set (0.00 sec)

```
mysql>
```