# **OBJECTIVE:** IMPLEMENTING STORED PROCEDURE.

#### LAB EXERCISE:

→ Creating a Database named 'lab6'.

```
CREATE DATABASE lab6; USE lab6;
```

→ Creating Tables and Inserting data.

```
CREATE TABLE student_marks(
    stu_id INT PRIMARY KEY,
    total_marks FLOAT,
    grade VARCHAR(5)
);

INSERT INTO student_marks

VALUES
(1, 450, 'A+'),
(2, 490, 'A++'),
(3, 440, 'B'),
(4, 380, 'C'),
(5, 150, 'D'),
(6, 100, 'F');
```

## **Problems:**

1) Create a procedure that finds the marks of all the students

```
DELIMITER //
CREATE PROCEDURE get_all_student_marks()
BEGIN
    SELECT * FROM student_marks;
END //
DELIMITER;
CALL get_all_student_marks();
```

| stu_id                    | total_marks | grade      |
|---------------------------|-------------|------------|
| a <mark>b</mark> c Filter | abc Filter  | abc Filter |
| 1                         | 450         | A+         |
| 2                         | 490         | A++        |
| 3                         | 440         | В          |
| 4                         | 380         | С          |
| 5                         | 150         | D          |
| 6                         | 100         | F          |

### 2) Create a procedure that finds students who obtained marks > 200

DELIMITER //

CREATE PROCEDURE get\_students\_above\_200()

**BEGIN** 

SELECT \* FROM student\_marks WHERE total\_marks > 200;

END //

DELIMITER;

#### CALL get\_students\_above\_200();

| stu_id     | total_marks | grade      |
|------------|-------------|------------|
| abc Filter | abc Filter  | abc Filter |
| 1          | 450         | A+         |
| 2          | 490         | A++        |
| 3          | 440         | В          |
| 4          | 380         | С          |

## 3) Create a procedure that takes grade as parameter

DELIMITER //

CREATE PROCEDURE get\_students\_by\_grade(IN grade\_param VARCHAR(5))

**BEGIN** 

```
SELECT * FROM student_marks WHERE grade = grade_param;
END //
DELIMITER;
```

### CALL get\_students\_by\_grade('A+');

| stu_id     | total_marks | grade               |
|------------|-------------|---------------------|
| abc Filter | abc Filter  | a <b>b</b> c Filter |
| 1          | 450         | A+                  |

# 4) Alter the procedure to change the proc to display only grade of student

DELIMITER //

CREATE PROCEDURE get\_student\_grades()

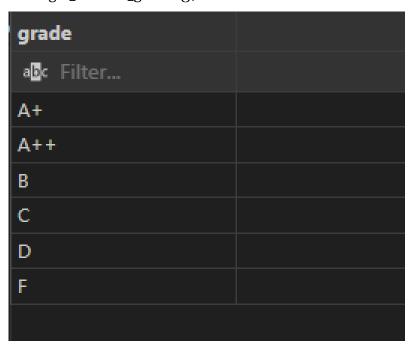
**BEGIN** 

SELECT grade FROM student\_marks;

END //

**DELIMITER**;

### CALL get\_student\_grades();



## 5) Drop any procedure

DROP PROCEDURE IF EXISTS get\_all\_student\_marks;