

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
abc Filter...	abc Filter...	abc Filter...
1	450	A+
2	490	A++
3	440	B
4	380	C
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	B
4	380	C

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...	abc 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();
```

grade	
abc Filter...	
A+	
A++	
B	
C	
D	
F	

5) Drop any procedure

```
DROP PROCEDURE IF EXISTS get_all_student_marks;
```

