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Roll Number: 31118 (K-1 Batch)

Subject: DBSL Lab – Assignment 05

Code:

```
CREATE TABLE stud marks(
    roll_num INT NOT NULL PRIMARY KEY,
    stud_name VARCHAR(200),
    total marks INT
);
CREATE TABLE result(
    roll_num INT NOT NULL PRIMARY KEY,
    stud name VARCHAR(200),
    class VARCHAR(300)
);
INSERT INTO stud_marks(roll_num, stud_name, total_marks)
VALUES (1, 'Alex', 1300),
(2, 'Bob', 980),
(3, 'Natasha', 840);
DELIMITER //
CREATE PROCEDURE proc_grade(
    IN rn INT
BEGIN
    DECLARE sn VARCHAR(200);
    DECLARE marks INT;
    DECLARE cl VARCHAR(300);
    SELECT stud_name, total_marks
    INTO sn, marks
    FROM stud marks
    WHERE stud_marks.roll_num = rn;
    IF marks >= 990 AND marks <= 1500 THEN
        SET cl = 'distinction category';
    ELSEIF marks >= 900 AND marks <= 989 THEN
        SET cl = 'first class';
    ELSEIF marks >= 825 AND marks <= 899 THEN
        SET cl = 'higher second class';
```

```
ELSE
     SET cl = 'undefined';
END IF;

INSERT INTO result (roll_num, stud_name, class)
VALUES (rn, sn, cl);

END //

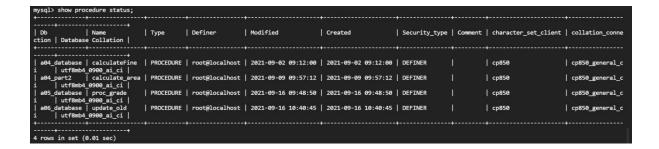
DELIMITER;

CALL proc_grade(1);
```

Tables in database:

Schema of Tables:

Stored Procedures:



Initial Table Data:

Calling Stored Procedure for roll number-1:

Calling Stored Procedure for roll number-2:

Calling Stored Procedure for Roll Number-3:

```
mysql> select * from result;

| roll_num | stud_name | class |
| 1 | Alex | distinction category |
| 2 | Bob | first class |

2 rows in set (0.00 sec)

mysql> call proc_grade(3);
Query OK, 1 row affected (0.00 sec)

mysql> select * from result;

| roll_num | stud_name | class |
| 1 | Alex | distinction category |
| 2 | Bob | first class |
| 3 | Natasha | higher second class |
| 1 | Arex | distinction category |
| 2 | Bob | first class |
| 3 | Natasha | higher second class |
| 3 | rows in set (0.00 sec)
```

Thank You!