USE database\_name;

CREATE TABLE marks (

roll\_no INT,

name VARCHAR(20),

total\_marks INT -- Corrected data type to INT to match the marks value type

);

CREATE TABLE result (

roll\_no INT,

name VARCHAR(20),

class VARCHAR(20)

);

INSERT INTO marks VALUES (1, 'Abhi', 1400);

INSERT INTO marks VALUES (2, 'Piyush', 980);

INSERT INTO marks VALUES (3, 'Hitesh', 880);

INSERT INTO marks VALUES (4, 'Ashley', 820);

INSERT INTO marks VALUES (5, 'Partik', 740);

INSERT INTO marks VALUES (6, 'Patil', 640);

DELIMITER //

CREATE PROCEDURE proc\_result(IN marks INT, OUT class CHAR(20))

BEGIN

IF marks BETWEEN 991 AND 1500 THEN

SET class = 'Distinction';

ELSEIF marks BETWEEN 891 AND 990 THEN

SET class = 'First Class';

ELSEIF marks BETWEEN 826 AND 890 THEN

SET class = 'Higher Second Class';

ELSEIF marks BETWEEN 751 AND 825 THEN

SET class = 'Second Class';

ELSEIF marks BETWEEN 651 AND 750 THEN

SET class = 'Passed';

ELSEIF marks < 651 THEN

SET class = 'Fail';

END IF;

END //

DELIMITER ;

DELIMITER //

CREATE FUNCTION final\_results(R1 INT)

RETURNS INT DETERMINISTIC

BEGIN

DECLARE fmarks INT;

DECLARE grade VARCHAR(20);

DECLARE stud\_name VARCHAR(20);

SELECT total\_marks, name INTO fmarks, stud\_name

FROM marks

WHERE roll\_no = R1;

CALL proc\_result(fmarks, grade);

INSERT INTO result (roll\_no, name, class)

VALUES (R1, stud\_name, grade);

RETURN R1;

END //

DELIMITER ;

**MAIN Code –**

select final\_results(2);

select final\_results(3);

select final\_results(4);

select final\_results(5);

select \* from result;