

**PL/Sql-6** Write a Stored Procedure namely proc\_Grade for the categorization of student. If marks scored by students in examination is <=1500 and marks>=990 then student will be placed in distinction category if marks scored are between 989 and 900 categories is first class, if marks 899 and 825 category is Higher Second Class.

Write a PL/SQL block for using procedure created with above requirement.

**Stud\_Marks(name, total\_marks), Result (Roll,Name, Class)**

```
CREATE TABLE Stud_Marks (
    Roll INT PRIMARY KEY,
    Name VARCHAR(50),
    total_marks INT
);

CREATE TABLE Result (
    Roll INT,
    Name VARCHAR(50),
    Class VARCHAR(20)
);

-- Sample data
INSERT INTO Stud_Marks VALUES
(101, 'Ravi', 1200),
(102, 'Anita', 950),
(103, 'Meena', 870),
(104, 'Suresh', 800);

DELIMITER //

CREATE PROCEDURE proc_Grade()
BEGIN
    DECLARE done INT DEFAULT 0;
    DECLARE v_roll INT;
    DECLARE v_name VARCHAR(50);
    DECLARE v_marks INT;
    DECLARE v_class VARCHAR(20);

    -- Cursor to iterate over students
    DECLARE cur CURSOR FOR
        SELECT Roll, Name, total_marks FROM Stud_Marks;

    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

    OPEN cur;

    read_loop: LOOP
        FETCH cur INTO v_roll, v_name, v_marks;
        IF done = 1 THEN
            LEAVE read_loop;
        END IF;
    END LOOP;
```

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-- Categorize based on marks
IF v_marks BETWEEN 990 AND 1500 THEN
    SET v_class = 'Distinction';
ELSEIF v_marks BETWEEN 900 AND 989 THEN
    SET v_class = 'First Class';
ELSEIF v_marks BETWEEN 825 AND 899 THEN
    SET v_class = 'Higher Second Class';
ELSE
    SET v_class = 'No Class';
END IF;

-- Insert result into Result table
INSERT INTO Result(Roll, Name, Class)
VALUES (v_roll, v_name, v_class);

END LOOP;

CLOSE cur;

SELECT 'Student grading completed successfully!' AS Message;

END //

DELIMITER ;

Select* from Stud_Marks;

#after Procedure

CALL proc_Grade();

Select* from Result;

```