**Named PL/SQL Block: PL/SQL Stored Procedure and Stored Function.**

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 category is first class, if marks 899 and 825 category is Higher Second Class.

Write a PL/SQL block to use procedure created with above requirement.

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

Note: Instructor will frame the problem statement for writing stored procedure and Function in line with above statement**.**

**Ass5a.sql**

DROP PROCEDURE IF EXISTS proc\_Class;

Delimiter //

CREATE PROCEDURE proc\_Class(IN new\_Roll Integer)

BEGIN

DECLARE T\_Marks INTEGER;

DECLARE S\_Name varchar(25);

DECLARE S\_result varchar(25);

DECLARE EXIT HANDLER FOR NOT FOUND

BEGIN

SELECT CONCAT('ROLLNO ', new\_Roll, ' NOT FOUND') as NoRecord;

END;

SELECT Name, Total\_Marks INTO S\_Name, T\_Marks

FROM Stud\_Marks

WHERE Rollno = new\_Roll;

SET S\_result = Func\_Class(T\_Marks);

INSERT INTO Result values(new\_Roll,S\_Name,S\_result);

END;

//

**Ass5b.sql**

DROP FUNCTION IF EXISTS Func\_Class;

Delimiter //

CREATE FUNCTION Func\_Class(Marks Integer)

RETURNS varchar(25) NO SQL

BEGIN

DECLARE S\_result varchar(25);

IF (Marks>=990 AND Marks<=1500) then

SET S\_result = 'DISTINCTION';

ELSEIF (Marks>=900 AND Marks<=989) THEN

SET S\_result = 'FIRST CLASS';

ELSEIF (Marks>=825 AND Marks<=899) THEN

SET S\_result = 'HIGHER SECOND CLASS';

ELSE

SET S\_result = 'PASS CLASS';

END IF;

RETURN S\_result;

END;

//

Delimiter ;

How to run:

1. Source **Ass5a.sql**
2. **Source Ass5b.sql**
3. **Call** proc\_Class(1)
4. Select \* from Result