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 and900 category is first class, if marks899and 825 category is Higher Second Class.

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

Stud\_Marks(name, total\_marks)

Result(Roll,Name, Class)

**PL/SQL Block: -**

CREATE TABLE stud\_marks (name VARCHAR2(20), total\_marks NUMBER(5));

CREATE TABLE Result ( roll\_no NUMBER(3), name VARCHAR2(20), class VARCHAR2(20) );

INSERT INTO stud\_marks (name, total\_marks) VALUES ('Khushal', 995);

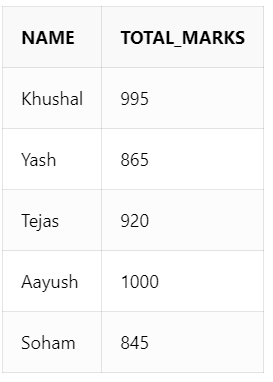
INSERT INTO stud\_marks (name, total\_marks) VALUES ('Yash', 865);

INSERT INTO stud\_marks (name, total\_marks) VALUES ('Tejas', 920);

INSERT INTO stud\_marks (name, total\_marks) VALUES ('Aayush', 1000);

INSERT INTO stud\_marks (name, total\_marks) VALUES ('Soham', 745);

SELECT \* FROM stud\_marks;



INSERT INTO Result (roll\_no, name) VALUES (1, 'Khushal');

INSERT INTO Result (roll\_no, name) VALUES (2, 'Yash');

INSERT INTO Result (roll\_no, name) VALUES (3, 'Tejas');

INSERT INTO Result (roll\_no, name) VALUES (4, 'Aayush');

INSERT INTO Result (roll\_no, name) VALUES (5, 'Soham');

CREATE OR REPLACE PROCEDURE proc\_Grade (

r IN NUMBER,

grade OUT VARCHAR2,

student\_name OUT VARCHAR2

)

IS

m NUMBER(4);

BEGIN

SELECT name, total\_marks INTO student\_name, m FROM stud\_marks WHERE name = (SELECT name FROM Result WHERE roll\_no = r);

IF m BETWEEN 990 AND 1500 THEN

grade := 'Distinction';

UPDATE Result SET Class = 'Distinction' WHERE roll\_no = r;

ELSIF m BETWEEN 900 AND 989 THEN

grade := 'FirstClass';

UPDATE Result SET Class = 'FirstClass' WHERE roll\_no = r;

ELSIF m BETWEEN 825 AND 899 THEN

grade := 'SecondClass';

UPDATE Result SET Class = 'SecondClass' WHERE roll\_no = r;

ELSE

grade := '--';

UPDATE Result SET Class = '--' WHERE roll\_no = r;

END IF;

END;

/

SELECT \* FROM Result;



DECLARE

v\_grade VARCHAR2(25);

v\_name VARCHAR2(20);

BEGIN

proc\_Grade(1, v\_grade, v\_name);

proc\_Grade(2, v\_grade, v\_name);

proc\_Grade(3, v\_grade, v\_name);

proc\_Grade(4, v\_grade, v\_name);

proc\_Grade(5, v\_grade, v\_name);

END;

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SELECT \* FROM Result;

