

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;
```

NAME	TOTAL_MARKS
Khushal	995
Yash	865
Tejas	920
Aayush	1000
Soham	845

```
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;

ROLL_NO	NAME	CLASS
1	Khushal	-
2	Yash	-
3	Tejas	-
4	Aayush	-
5	Soham	-

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;

/

SELECT * FROM Result;

ROLL_NO	NAME	CLASS
1	Khushal	Distinction
2	Yash	SecondClass
3	Tejas	FirstClass
4	Aayush	Distinction
5	Soham	SecondClass