

# DBMS – Assignment A5

## Creating tables & inserting data

### Student marks:

```
CREATE TABLE Stud_Marks(  
    Roll NUMBER(14),  
    name VARCHAR(255),  
    total_marks NUMBER(14),  
    PRIMARY KEY(Roll)  
);
```

```
INSERT INTO Stud_Marks VALUES (1, 'Arora', 1350);  
INSERT INTO Stud_Marks VALUES (2, 'Shankar', 979);  
INSERT INTO Stud_Marks VALUES (3, 'Lara', 834);  
INSERT INTO Stud_Marks VALUES (4, 'Jambo', 667);  
INSERT INTO Stud_Marks VALUES (5, 'Tinde', 1400);
```

Table created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

### Result:

```
CREATE TABLE Result(  
    Roll NUMBER(14),  
    name VARCHAR(255),  
    Class VARCHAR(255),  
    FOREIGN KEY (Roll) REFERENCES Stud_Marks (Roll)  
);
```

Table created.

### Procedure

```
CREATE OR REPLACE PROCEDURE proc_grade  
(rollno in number,  
    p_roll_no out Stud_Marks.Roll%type,  
    p_name out Stud_Marks.name%type,
```

```

    p_total out Stud_Marks.total_marks%type)
AS
BEGIN
    SELECT Roll, name, total_marks into p_roll_no, p_name, p_total
from Stud_Marks WHERE Roll = rollno;
    IF p_total <= 1500 and p_total >= 990
    THEN
        INSERT INTO Result VALUES (p_roll_no, p_name,
'Distinction');
    ELSE IF p_total <= 989 and p_total >= 900
    THEN
        INSERT INTO Result VALUES (p_roll_no, p_name, 'First
Class');
    ELSE IF p_total <= 899 and p_total >= 825
    THEN
        INSERT INTO Result VALUES (p_roll_no, p_name, 'Higher
Second Class');
    ELSE
        INSERT INTO Result VALUES (p_roll_no, p_name, 'FAIL');
    END IF;
    END IF;
    END IF;
EXCEPTION
    WHEN no_data_found THEN
        dbms_output.put_line('Rollno ' || rollno || ' is not
present!!');
END;
/

```

Procedure created.

## Calling procedure

```

DECLARE
    rollno number(14);
    p_roll_no Stud_Marks.Roll%type;
    p_name Stud_Marks.name%type;
    p_total_marks Stud_Marks.total_marks%type;
BEGIN
    rollno := &rollno;
    proc_grade(rollno, p_roll_no, p_name, p_total_marks);
END;
/

```

1. When rollno = 1 is entered:

Result:

| ROLL | NAME  | CLASS       |
|------|-------|-------------|
| 1    | Arora | Distinction |

2. When rollno = 2 is entered:

Result:

| ROLL | NAME    | CLASS       |
|------|---------|-------------|
| 1    | Arora   | Distinction |
| 2    | Shankar | First Class |

3. When rollno = 3 is entered:

Result:

| ROLL | NAME    | CLASS               |
|------|---------|---------------------|
| 1    | Arora   | Distinction         |
| 2    | Shankar | First Class         |
| 3    | Lara    | Higher Second Class |

4. When rollno = 4 is entered:

Result:

| ROLL | NAME    | CLASS               |
|------|---------|---------------------|
| 1    | Tanmay  | Distinction         |
| 2    | Machkar | First Class         |
| 3    | Tejas   | Higher Second Class |
| 4    | Rajesh  | FAIL                |

5. When rollno = 5 is entered:

Result:

| ROLL | NAME    | CLASS               |
|------|---------|---------------------|
| 1    | Arora   | Distinction         |
| 2    | Shankar | First Class         |
| 3    | Lara    | Higher Second Class |
| 4    | Jambo   | FAIL                |
| 5    | Tinde   | Distinction         |

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