

## ASSIGNMENT NO:5

### AIM:

Calculate grade of minimum 10 student using cursor.

### 1>DATABASE:

```
create database swati;
```

### 2>USE DATABASE:

```
use swati;
```

### 3> TABLE:

```
create table student(sid integer auto_increment,m1 integer,m2 integer,m3 integer,primary key(sid));
```

### 4>INSERT:

```
insert into student values("NULL",40,50,60);$$
insert into student values("NULL",80,60,60);$$
insert into student values("NULL",60,70,70);$$
insert into student values("NULL",40,90,40); $$
insert into student values("NULL",20,20,30); $$
insert into student values("NULL",80,50,90);$$
insert into student values("NULL",50,70,80); $$
insert into student values("NULL",45,66,55); $$
insert into student values("NULL",45,45,45); $$
insert into student values("NULL",50,50,50); $$
```

```
select * from student; $$
+-----+-----+-----+
| sid | m1 | m2 | m3 |
+-----+-----+-----+
| 1 | 40 | 50 | 60 |
| 2 | 80 | 60 | 60 |
| 3 | 60 | 70 | 70 |
| 4 | 40 | 90 | 40 |
| 5 | 48 | 90 | 90 |
| 6 | 20 | 20 | 30 |
| 7 | 80 | 50 | 90 |
| 8 | 50 | 70 | 80 |
| 9 | 45 | 66 | 55 |
| 10 | 45 | 45 | 45 |
| 11 | 50 | 50 | 50 |
+-----+-----+-----+
11 rows in set (0.00 sec)
```

### 5>CREATE PROCEDURE:

```
create procedure displayall()
begin
declare v_sid,v_sub1,v_sub2,v_sub3 int;

declare total int default 0;
Declare v_finished int default 0;
Declare per decimal(10,2);
declare std_cur cursor for
(select sid,m1,m2,m3
from student
);
declare continue handler for not found set v_finished= 1;
set per=0;
open std_cur;
labell:loop
fetch std_cur into v_sid,v_sub1,v_sub2,v_sub3;
if v_finished = 1 then
leave labell;
end if;
set total=(v_sub1 + v_sub2 + v_sub3);
set per=total/3;
select concat( concat( concat('marks-->',v_sub1) ,v_sub2 ) ,v_sub3 )
```

```
"Subject wise Marks";
select concat('Total marks of student ',total) as "Total marks";
select concat('percentage of student ',per) as percentage;
if(per>=66) then
select concat('','distinction') as Class;
elseif(per<66 and per>=60) then
select concat('secured','First Class') as Class;
elseif(per<60 and per>=55) then
select concat('secured','HigherSecond Class') as Class;
elseif(per<55 and per>=50) then
select concat('secured','Second Class') as Class;
elseif(per<50 and per>=40) then
select concat('secured','Pass Class') as Class;
else
select concat('Sorry','Failed');
end if;
end loop labell;
```

```

        close std_cur;
    end $$

```

```

mysql> create procedure displayall()
-> begin
-> declare v_sid,v_sub1,v_sub2,v_sub3 int;
-> declare total int default 0;
Declare v_finished int default 0;
-> declare per decimal(10,2);
-> declare std_cur cursor for
-> (select sid,m1,m2,m3 from student);
-> declare continue handler for not found set v_finished=1;
-> set per=0;
-> open std_cur;
-> label1:loop
-> fetch std_cur into v_sid,v_sub1,v_sub2,v_sub3;
-> if v_finished = 1 then
-> leave label1;
-> end if;
-> set total=(v_sub1 + v_sub2 + v_sub3);
-> set per=total/3;
-> select concat(concat(concat('marks-->',v_sub1),v_sub2),v_sub3) as "Subject wise Marks";
-> select concat('Total marks of student',total) as "Total marks";
-> select concat('percentage of student',per) as "percentage";
-> if(per>=66) then
-> select concat('Total marks of student',total) as "Total marks";
-> select concat(",distinction") as Class;
-> elseif(per<66 and per>=60) then
-> select concat('secured','First Class') as Class;
->     elseif(per<60 and per>=55) then
->         select concat('secured','HigherSecond Class') as Class;
->     elseif(per<55 and per>=50) then
->         select concat('secured','Second Class') as Class;
->     elseif(per<50 and per>=40) then
->         select concat('secured','Pass Class') as Class;
->     else
->         select concat('Sorry','Failed');
->     end if;
-> end loop label1;
-> close std_cur;
-> end $$

```

**OUTPUT:**

```
call displayall();$$
```

```
+-----+
| Subject wise Marks |
+-----+
| marks-->405060      |
+-----+
1 row in set (0.06 sec)
```

```
+-----+
| Total marks          |
+-----+
| Total marks  of student 150 |
```

```
+-----+
| percentage           |
+-----+
| percentage of student 50.00 |
+-----+
1 row in set (0.03 sec)
```

```
+-----+
| Class                |
+-----+
| securedSecond Class |
+-----+
1 row in set (0.04 sec)
```

```
+-----+
| Subject wise Marks |
+-----+
| marks-->806060      |
+-----+
1 row in set (0.06 sec)
```

```
+-----+
| Total marks          |
+-----+
| Total marks  of student 200 |
+-----+
1 row in set (0.07 sec)
```

```
+-----+
| percentage           |
+-----+
| percentage of student 66.67 |
+-----+
1 row in set (0.08 sec)
```

```
+-----+
| Class                |
+-----+
| distinction          |
+-----+
1 row in set (0.10 sec)
```

```
+-----+
| Subject wise Marks |
+-----+
| marks-->607070      |
+-----+
1 row in set (0.11 sec)
```

```
+-----+
| Total marks          |
+-----+
| Total marks  of student 200 |
+-----+
1 row in set (0.12 sec)
```

```
+-----+
| percentage           |
+-----+
| percentage of student 66.67 |
+-----+
1 row in set (0.14 sec)
```

```
+-----+
| Class                |
+-----+
| distinction          |
+-----+
1 row in set (0.15 sec)
```

```
+-----+
| Subject wise Marks |
+-----+
| marks-->409040      |
```

```

+-----+
1 row in set (0.17 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 170 |
+-----+
1 row in set (0.19 sec)

+-----+
| percentage |
+-----+
| percentage of student 56.67 |
+-----+
1 row in set (0.20 sec)

+-----+
| Class |
+-----+
| securedHigherSecond Class |
+-----+
1 row in set (0.22 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->489090 |
+-----+
1 row in set (0.23 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 228 |
+-----+
1 row in set (0.25 sec)

+-----+
| percentage |
+-----+
| percentage of student 76.00 |
+-----+
1 row in set (0.26 sec)

+-----+
| Class |
+-----+
| distinction |
+-----+
1 row in set (0.28 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->202030 |
+-----+
1 row in set (0.29 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 70 |
+-----+
1 row in set (0.30 sec)

+-----+
| percentage |
+-----+
| percentage of student 23.33 |
+-----+
1 row in set (0.32 sec)

+-----+
| concat('Sorry','Failed') |
+-----+
| SorryFailed |
+-----+
1 row in set (0.34 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->805090 |
+-----+
1 row in set (0.35 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 220 |
+-----+
1 row in set (0.37 sec)

+-----+
| percentage |

```

```

+-----+
| percentage of student 73.33 |
+-----+
1 row in set (0.39 sec)

+-----+
| Class |
+-----+
| distinction |
+-----+
1 row in set (0.40 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->507080 |
+-----+
1 row in set (0.41 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 200 |
+-----+
1 row in set (0.42 sec)

+-----+
| percentage |
+-----+
| percentage of student 66.67 |
+-----+
1 row in set (0.44 sec)

+-----+
| Class |
+-----+
| distinction |
+-----+
1 row in set (0.46 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->456655 |
+-----+
1 row in set (0.47 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 166 |
+-----+
1 row in set (0.48 sec)

+-----+
| percentage |
+-----+
| percentage of student 55.33 |
+-----+
1 row in set (0.51 sec)

+-----+
| Class |
+-----+
| securedHigherSecond Class |
+-----+
1 row in set (0.52 sec)

+-----+
| Subject wise Marks |
+-----+
| marks-->454545 |
+-----+
1 row in set (0.54 sec)

+-----+
| Total marks |
+-----+
| Total marks of student 135 |
+-----+
1 row in set (0.55 sec)

+-----+
| percentage |
+-----+
| percentage of student 45.00 |
+-----+
1 row in set (0.57 sec)

+-----+
| Class |
+-----+
| securedPass Class |
+-----+
1 row in set (0.58 sec)

```

```
+-----+
| Subject wise Marks |
+-----+
| marks-->505050      |
+-----+
1 row in set (0.59 sec)
```

```
+-----+
| Total marks          |
+-----+
| Total marks  of student 150 |
+-----+
1 row in set (0.60 sec)
```

```
+-----+
| percentage           |
+-----+
| percentage of student 50.00 |
+-----+
1 row in set (0.61 sec)
```

```
+-----+
| Class                |
+-----+
| securedSecond Class |
+-----+
1 row in set (0.62 sec)
```

Query OK, 0 rows affected, 1 warning (0.63 sec)