

GROUP B
ASSIGNMENT 7

NAME – Kartik Pingale
CLASS – TE-IT
BATCH – T2
ROLL NO – 7048

PROBLEM STATEMENT

Write a PL/SQL block to implement all types of cursor

Consider Student table containing information of Exam_no, Name, Sub1, Sub2, Sub3 marks of minimum 10 students. Write a cursor in which percentages for each student are calculated.

If marks are greater than or equal to 60, make that entry into StudFirst(Exam_no, Name, Sub1, Sub2, Sub3, Percent) table.

If less than 60, then make that entry into StudPass(Exam_no, Name, Sub1, Sub2, Sub3, Percent) table.

If student is fail in any subject (less than 40 in any subject), then make that entry into StudFail(Exam_no, Name, sub1, sub2, sub3) table.

```
mysql> create database academics;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use academics;  
Database changed
```

```
mysql> create table Student(Exam_no int, Name varchar(25), Sub1  
int, Sub2 int, Sub3 int);  
Query OK, 0 rows affected (0.35 sec)
```

```
mysql> create table StudFirst(Exam_no int, Name varchar(25), Sub1  
int, Sub2 int, Sub3 int, Percent real(4,2));  
Query OK, 0 rows affected (0.33 sec)
```

```
mysql> create table StudPass(Exam_no int, Name varchar(25), Sub1  
int, Sub2 int, Sub3 int, Percent real(4,2));  
Query OK, 0 rows affected (0.34 sec)
```

```
mysql> create table StudFail(Exam_no int, Name varchar(25), Sub1  
int, Sub2 int, Sub3 int); Query OK, 0 rows affected (0.46 sec)
```

```
mysql> insert into Student values(1239, 'Rahul', 58, 63, 66);  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(1345, 'Ashwini', 78, 71, 75);  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(2125, 'Ananya', 88, 76, 80);
```

Query OK, 1 row affected (0.05 sec)

```
mysql> insert into Student values(1156,'Mayuri',57,71,69);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into Student values(1236,'Pranav',38,71,75);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into Student values(1244,'Mahesh',88,89,79);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into Student values(6245,'Shubham',68,35,65);
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into Student values(5651,'Karan',51,65,57);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into Student values(2352,'Sopan',61,63,55);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into Student values(2123,'Arnav',75,68,63);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> select * from Student;
```

| Exam_no | Name | Sub1 | Sub2 | Sub3 |
|---------|---------|------|------|------|
| 1239 | Rahul | 58 | 63 | 66 |
| 1345 | Ashwini | 78 | 71 | 75 |
| 2125 | Ananya | 88 | 76 | 80 |
| 1156 | Mayuri | 57 | 71 | 69 |
| 1236 | Pranav | 38 | 71 | 75 |
| 1244 | Mahesh | 88 | 89 | 79 |
| 6245 | Shubham | 68 | 35 | 65 |
| 5651 | Karan | 51 | 65 | 57 |
| 2352 | Sopan | 61 | 63 | 55 |
| 2123 | Arnav | 75 | 68 | 63 |

10 rows in set (0.00 sec)

```
mysql> select * from StudFirst;
Empty set (0.00 sec)
```

```
mysql> select * from StudPass;
Empty set (0.00 sec)
```

```
mysql> select * from StudFail;
Empty set (0.00 sec)
```

```
mysql> CREATE PROCEDURE CalPerc()
-> BEGIN
```

```

-> Declare sub1,sub2,sub3 int;
-> Declare perc real(4,2);
-> Declare exam int;
-> Declare name varchar(25);
-> Declare cnt int;
-> Declare Stud CURSOR for SELECT * from Student;
-> select count(*) into cnt from Student;
-> OPEN Stud;
-> WHILE(cnt > 0) DO
-> FETCH Stud into exam,name,sub1,sub2,sub3;
-> SET perc=0;
-> SET perc=(sub1+sub2+sub3)/3;
-> if (sub1<40 || sub2 < 40 || sub3 < 40) then
insert into StudFail values(exam,name,sub1,sub2,sub3);
-> elseif (perc >= 60.00) then insert into StudFirst
values(exam,name,sub1,sub2,sub3,perc);
-> else insert into StudPass
values(exam,name,sub1,sub2,sub3,perc);
-> end if;
-> SET cnt=cnt-1;
-> END WHILE;
-> CLOSE Stud;
-> END
-> //

```

Query OK, 0 rows affected (0.08 sec)

```
mysql> call CalPerc();
```

Query OK, 1 row affected (0.55 sec)

```
mysql> select * from Student;
```

| Exam_no | Name | Sub1 | Sub2 | Sub3 |
|---------|---------|------|------|------|
| 1239 | Rahul | 58 | 63 | 66 |
| 1345 | Ashwini | 78 | 71 | 75 |
| 2125 | Ananya | 88 | 76 | 80 |
| 1156 | Mayuri | 57 | 71 | 69 |
| 1236 | Pranav | 38 | 71 | 75 |
| 1244 | Mahesh | 88 | 89 | 79 |
| 6245 | Shubham | 68 | 35 | 65 |
| 5651 | Karan | 51 | 65 | 57 |
| 2352 | Sopan | 61 | 63 | 55 |
| 2123 | Arnav | 75 | 68 | 63 |

10 rows in set (0.00 sec)

```
mysql> select * from StudFirst;
```

| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percent |
|---------|-------|------|------|------|---------|
| 1239 | Rahul | 58 | 63 | 66 | 62.33 |

| | | | | | |
|------|---------|----|----|----|-------|
| 1345 | Ashwini | 78 | 71 | 75 | 74.67 |
| 2125 | Ananya | 88 | 76 | 80 | 81.33 |
| 1156 | Mayuri | 57 | 71 | 69 | 65.67 |
| 1244 | Mahesh | 88 | 89 | 79 | 85.33 |
| 2123 | Arnav | 75 | 68 | 63 | 68.67 |

6 rows in set (0.00 sec)

```
mysql> select * from StudPass;
```

| Exam_no | Name | Sub1 | Sub2 | Sub3 | Percent |
|---------|-------|------|------|------|---------|
| 5651 | Karan | 51 | 65 | 57 | 57.67 |
| 2352 | Sopan | 61 | 63 | 55 | 59.67 |

2 rows in set (0.00 sec)

```
mysql> select * from StudFail;
```

| Exam_no | Name | Sub1 | Sub2 | Sub3 |
|---------|---------|------|------|------|
| 1236 | Pranav | 38 | 71 | 75 |
| 6245 | Shubham | 68 | 35 | 65 |

2 rows in set (0.00 sec)