

TE IT

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Roll No : 8048

Consider student table containing information of Exam\_no, Name, Sub1, Sub2, Sub3, Total, Percentage marks of minimum 10 students.

**Write a cursor in which percentages for each student are calculated.**

**If percentages is greater than or equal to 60, make that entry into Stud\_First table (Exam\_no, Name, Sub1, Sub2, Sub3, Total, Percentage).**

**If percentages is less than 60 and greater than or equal to 40, make that entry into Stud\_Pass table (Exam\_no, Name, Sub1, Sub2, Sub3, Total, Percentage) .**

**If percentage is less than 40 or student is fail in any subject(less than 40 marks in any subject), make that entry into Stud\_fail table (Exam\_no, Name, sub1, sub2, sub3, Total, Percentage) table.**

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MySQL 8.0 Command Line Client - Unicode
mysql> DELIMITER //
mysql> CREATE PROCEDURE calculate_percentage()
-> BEGIN
->
-> DECLARE Sub_1, Sub_2, Sub_3, Total, i, counter INT;
-> DECLARE Name, Exam_no VARCHAR(10);
-> DECLARE Percentage DECIMAL(4,2);
->
-> DECLARE student_cursor CURSOR FOR SELECT seat_no, first_name, subject_1, subject_2, subject_3 FROM mark_list;
->
-> SET i=0;
-> SELECT COUNT(*) INTO counter FROM mark_list;
->
-> OPEN student_cursor;
-> REPEAT
-> FETCH student_cursor INTO Exam_no, Name, Sub_1, Sub_2, Sub_3;
-> SET Total=(Sub_1+Sub_2+Sub_3);
-> SET Percentage=(Total/3);
->
-> IF Percentage>=60 THEN
-> INSERT INTO Stud_First VALUES(Exam_no, Name, Sub_1, Sub_2, Sub_3, Total, Percentage);
-> ELSEIF ((Percentage<60) AND (Percentage>=40)) THEN
-> INSERT INTO Stud_Pass VALUES(Exam_no, Name, Sub_1, Sub_2, Sub_3, Total, Percentage);
-> ELSE
-> INSERT INTO Stud_fail VALUES(Exam_no, Name, Sub_1, Sub_2, Sub_3, Total, Percentage);
-> END IF;
->
-> SET i=i+1;
-> UNTIL i>=counter END REPEAT;
-> CLOSE student_cursor;
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MySQL 8.0 Command Line Client - Unicode
-> SET i=i+1;
-> UNTIL i>=counter END REPEAT;
-> CLOSE student_cursor;
-> END//
Query OK, 0 rows affected (0.18 sec)

mysql> DELIMITER ;
mysql> CALL calculate_percentage();
Query OK, 1 row affected (0.60 sec)

mysql> SELECT * FROM Stud_Pass;
+-----+-----+-----+-----+-----+-----+-----+
| Exam_no | Name  | Sub_1 | Sub_2 | Sub_3 | Total | Percentage |
+-----+-----+-----+-----+-----+-----+-----+
| T1500801 | AJAY  | 56    | 40    | 71    | 167   | 55.67      |
| T1500802 | SACHIN | 48    | 70    | 56    | 174   | 58.00      |
| T1500815 | RAHUL  | 64    | 40    | 67    | 171   | 57.00      |
| T1500809 | RAJ   | 56    | 70    | 40    | 166   | 55.33      |
| T1500899 | SATISH | 71    | 48    | 56    | 175   | 58.33      |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> SELECT * FROM Stud_fail;
Empty set (0.04 sec)

mysql> SELECT * FROM Stud_First;
+-----+-----+-----+-----+-----+-----+-----+
| Exam_no | Name  | Sub_1 | Sub_2 | Sub_3 | Total | Percentage |
+-----+-----+-----+-----+-----+-----+-----+
| T1500803 | ATUL  | 63    | 71    | 48    | 182   | 60.67      |
+-----+-----+-----+-----+-----+-----+-----+
```

```
MySQL 8.0 Command Line Client - Unicode
+-----+-----+-----+-----+-----+-----+-----+
| T1500802 | SACHIN | 48    | 70    | 56    | 174   | 58.00      |
| T1500815 | RAHUL  | 64    | 40    | 67    | 171   | 57.00      |
| T1500809 | RAJ   | 56    | 70    | 40    | 166   | 55.33      |
| T1500899 | SATISH | 71    | 48    | 56    | 175   | 58.33      |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> SELECT * FROM Stud_fail;
Empty set (0.04 sec)

mysql> SELECT * FROM Stud_First;
+-----+-----+-----+-----+-----+-----+-----+
| Exam_no | Name  | Sub_1 | Sub_2 | Sub_3 | Total | Percentage |
+-----+-----+-----+-----+-----+-----+-----+
| T1500803 | ATUL  | 63    | 71    | 48    | 182   | 60.67      |
| T1500814 | ANIL  | 67    | 56    | 63    | 186   | 62.00      |
| T1500855 | AKASH | 48    | 71    | 70    | 189   | 63.00      |
| T1500879 | PARAG | 70    | 56    | 71    | 197   | 65.67      |
| T1500829 | RAHUL | 81    | 65    | 75    | 221   | 73.67      |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```