

Database management system

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Experiment-9: Trigger:-

```
MySQL 8.0 Command Line Cli x + v
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 38
Server version: 8.0.32 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use sse;
Database changed
mysql> create table subjectmarks(id int,studentname char(20),sub1 int,sub2 int,sub3 int,total int,percentage int);
Query OK, 0 rows affected (0.02 sec)

mysql> desc subjectmarks;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | YES  |     | NULL    |       |
| studentname | char(20) | YES  |     | NULL    |       |
| sub1   | int  | YES  |     | NULL    |       |
| sub2   | int  | YES  |     | NULL    |       |
| sub3   | int  | YES  |     | NULL    |       |
| total  | int  | YES  |     | NULL    |       |
| percentage | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> create trigger subject_trigger before insert on subjectmarks for each row set new.total=new.sub1+new.sub2+new.sub3,new.percentage=new.total*60/100;
Query OK, 0 rows affected (0.03 sec)

mysql> insert into subjectmarks(1,"madhi",98,95,93,0,0);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1,"madhi",98,95,93,0,0)' at line 1
mysql> insert into subjectmarks values(1,"madhi",98,95,93,0,0);
Query OK, 1 row affected (0.01 sec)

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+-----+-----+-----+-----+-----+-----+
| sub3 | int | YES | NULL |
| total | int | YES | NULL |
| percentage | int | YES | NULL |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> create trigger subject_trigger before insert on subjectmarks for each row set new.total=new.sub1+new.sub2+new.sub3,new.percentage=new.total*60/100;
Query OK, 0 rows affected (0.03 sec)

mysql> insert into subjectmarks(1,"madhi",98,95,93,0,0);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1,"madhi",98,95,93,0,0)' at line 1
mysql> insert into subjectmarks values(1,"madhi",98,95,93,0,0);
Query OK, 1 row affected (0.01 sec)

mysql> insert into subjectmarks values(2,"harini",90,96,97,0,0);
Query OK, 1 row affected (0.01 sec)

mysql> insert into subjectmarks values(3,"pooji",94,96,99,0,0);
Query OK, 1 row affected (0.01 sec)

ERROR:
No query specified

mysql> select*from subjectmarks;
+-----+-----+-----+-----+-----+-----+
| id | studentname | sub1 | sub2 | sub3 | total | percentage |
+-----+-----+-----+-----+-----+-----+
| 1 | madhi | 98 | 95 | 93 | 286 | 172 |
| 2 | harini | 90 | 96 | 97 | 283 | 170 |
| 3 | pooji | 94 | 96 | 99 | 289 | 173 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

```
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| id | code | name | subject | marks | phone |
+----+-----+-----+-----+-----+-----+
| 1 | csa02 | pooji | maths | 98 | 79818243 |
| 2 | csa04 | madeena | ps | 97 | 99818243 |
| 3 | csa05 | harini | chem | 99 | 998567243 |
| 4 | csa07 | deepa | biology | 100 | 95502042 |
+----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> DELIMITER &&
mysql> create trigger after_insert_details
-> AFTER INSERT ON student_info FOR EACH ROW
-> BEGIN
-> INSERT INTO student_details values(new.id,new.code,new.name,new.subject,new.marks,new.phone,CURTIME());
-> END &&
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO student_info values(10,"csa07","rajitha","software",75,9108965);
-> INSERT INTO student_info values(10,"csa07","rajitha","software",75,9108965);
-> end$$
-> end $$
->
-> INSERT INTO student_info values
-> (10,"csa07","rajitha","software",75,9108965);
-> $$
-> &&
Query OK, 1 row affected (0.01 sec)

ERROR 1062 (23000): Duplicate entry '10' for key 'student_info.PRIMARY'
mysql> select*from student_details;
-> &&
+----+-----+-----+-----+-----+-----+-----+
| id | code | name | subject | marks | phone | lasinserted |
+----+-----+-----+-----+-----+-----+-----+
| 10 | csa07 | rajitha | software | 75 | 9108965 | 21:42:44 |
+----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> DELIMITER $$
mysql>
```