

TRIGGERS

EXPERIMENT-9

BEFORE INSERT

```
mysql> show tables;
+-----+
| Tables_in_sse |
+-----+
| dept          |
| employee      |
| faculty       |
| students      |
| teachers      |
+-----+
5 rows in set (0.04 sec)

mysql> select * from employee;
+----+-----+-----+-----+-----+
| id | name  | salary | gender | depart |
+----+-----+-----+-----+-----+
| 1  | steffan | 82000 | m      | sc     |
| 2  | amelie  | 52000 | f      | as     |
| 3  | pooji   | 96000 | f      | vs     |
| 4  | harini  | 96000 | f      | ds     |
| 5  | madeena | 96000 | f      | us     |
+----+-----+-----+-----+-----+
5 rows in set (0.04 sec)

mysql> create table subjectmarks(id int, studentname char(25), subj1 int, subj2 int, subj3 int, total int, per int);
Query OK, 0 rows affected (0.06 sec)

mysql> desc subjectmarks;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | YES  |     | NULL    |       |
| studentname | char(25) | YES  |     | NULL    |       |
| subj1  | int  | YES  |     | NULL    |       |
| subj2  | int  | YES  |     | NULL    |       |
| subj3  | int  | YES  |     | NULL    |       |
| total  | int  | YES  |     | NULL    |       |
| per    | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.03 sec)
```

```
mysql> set subjectmarks.per= subjectmarks.total*60/100;
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 'as set subjectmarks.total=subjectmarks.subj1+subjectmarks.subj2+subjectmarks.sub' at line 1
mysql> create trigger student_marks before insert on subjectmarks for each row new. set subjectmarks.total=subjectmarks.subj1+subjectmarks.subj2+subjectmarks.subj3, new.subjectmarks.per= subjectmarks.total*60/100;
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 '. set subjectmarks.total=subjectmarks.subj1+subjectmarks.subj2+subjectmarks.subj' at line 1
mysql> create trigger student_marks before insert on subjectmarks for each row.new set subjectmarks.total=subjectmarks.subj1+subjectmarks.subj2+subjectmarks.subj3, new.subjectmarks.per= subjectmarks.total*60/100;
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 'rown.new set subjectmarks.total=subjectmarks.subj1+subjectmarks.subj2+subjectmark' at line 1
mysql> create trigger student_marks
-> before insert
-> on
-> subjectmarks
-> for each row
-> set new.subjectmarks;
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 '' at line 6
mysql> create trigger student_marks before insert on subjectmarks for each row set new.total=new.subj1+new.subj2+new.subj3, new.per= new.total*60/100;
Query OK, 0 rows affected (0.04 sec)

mysql> insert into subjectmarks(
mysql> create trigger student_marks before insert on subjectmarks for each row set new.total=new.subj1+new.subj2+new.subj3, new.per= new.total*100/60;
ERROR 1359 (HY000): Trigger already exists
mysql> insert into subjectmarks values(1,"pooji",90,96,96,0,0);
Query OK, 1 row affected (0.04 sec)

mysql> select * from subjectmarks;
+----+-----+-----+-----+-----+-----+
| id | studentname | subj1 | subj2 | subj3 | total | per |
+----+-----+-----+-----+-----+-----+
| 1  | pooji      | 90    | 96    | 96    | 282   | 169 |
+----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

AFTER INSERT

```
MySQL 8.0 Command Line Cli x + v
8 rows in set (0.00 sec)

mysql> desc student_details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    |       |
| code   | varchar(255) | YES |     | NULL    |       |
| name    | char(25) | YES |     | NULL    |       |
| subject | char(25) | YES |     | NULL    |       |
| marks  | int   | YES |     | NULL    |       |
| phone  | int   | YES |     | NULL    |       |
| lasinserted | time | YES |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> select*from student_info;
+-----+-----+-----+-----+-----+-----+
| 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$$
-> end $$
->
mysql>
+-----+-----+-----+-----+-----+-----+
| 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$$
-> end $$
->
mysql> 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>
```