

Row level triggers

```
mysql> create database assi8library
```

```
-> ;
```

```
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use assi8library;
```

```
Database changed
```

```
mysql> create table stud(sid int primary key,name varchar(20),class varchar(10),bname varchar(20)  
,issued char(1));
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> create table returned(sid int, bname varchar(20),bauthor varchar(20));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table issued(sid int,bname varchar(20));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> delimiter //
```

```
mysql> create trigger tr_insert_stud
```

```
-> before insert
```

```
-> on stud
```

```
-> for each row
```

```
-> begin
```

```
-> insert into issued values(new.sid,new.bname);
```

```
-> end;
```

```
-> //
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into stud values(1,'stud2','te1','CNS','I');//
```

```
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from issued;//
```

```
+-----+-----+
| sid | bname |
+-----+-----+
|  1 | CNS   |
+-----+-----+

1 row in set (0.00 sec)
```

```
mysql> delimiter //
```

```
mysql> create trigger tr_delete_stud
```

```
-> after delete
```

```
-> on stud
```

```
-> for each row
```

```
-> begin
```

```
-> delete from issued where sid=old.sid;
```

```
-> end;
```

```
-> //
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delete from stud where sid=1;
```

```
-> //
```

```
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from issued;//
```

```
Empty set (0.00 sec)
```

```
mysql> delimiter //
```

```
mysql> create trigger tr_update_stud
```

```
-> after update
```

```
-> on stud
```

```
-> for each row
```

```
-> begin
```

-> update issued

-> set sid=new.sid where sid=old.sid;

-> end;

-> //

Query OK, 0 rows affected (0.02 sec)

mysql> insert into stud values(1,'stud2','te1','CNS','I');//

Query OK, 1 row affected (0.02 sec)

mysql> update stud set sid=3 where sid=1;

-> //

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from issued;//

+-----+-----+

| sid | bname |

+-----+-----+

| 3 | CNS |

+-----+-----+

1 row in set (0.00 sec)

mysql> select * from stud;//

+-----+-----+-----+-----+-----+

| sid | name | class | bname | issued |

+-----+-----+-----+-----+-----+

| 3 | stud2 | te1 | CNS | I |

+-----+-----+-----+-----+-----+

1 row in set (0.00 sec)

mysql>exit