EXPERIMENT – 10

TRIGGERS

AIM:

- Create a table with attribute sname, and another table with newname.
- Create a trigger to insert into second table before inserting in first table.
- Create a table for account details with attributes account number and an amount.
- Create a trigger to check if amount is negative or greater than zero before inserting to table.

Components:

- A **trigger** is a special type of stored procedure that automatically runs when an event occurs in the database serve
- Instance: It **is** the collection of information stored **in a** database at a particular moment.
- Entity: Object that is relevant to given system. Represented as rectangle.
- Attribute: Trait of an entity, relationship or other attribute. Represented by oval.

Schema:

```
 1 ●    create table test(sname varchar(20));
 2 ●    create table test_audit(newname varchar(20));
 3 ●    CREATE TRIGGER before_test_update
 4          BEFORE INSERT ON test
 5          FOR EACH ROW
 6      INSERT INTO test_audit
 7      SET newname = NEW.sname;
 8 ●    INSERT INTO test values('Laya');
 9 ●    select *from test;
10 ●    select *from test_audit;
11
12 ●    create table acco_details(accno integer, amount integer);
13      delimiter //
14 ●    CREATE TRIGGER before_udates
15          BEFORE INSERT ON acco_details
16          FOR EACH ROW
17      BEGIN
18          IF new.amount < 0   then
19              set new.amount = 0;
20          elseif new.amount > 100 then
21              set new.amount = 100;
22          end if;
```

```sql
 9 ●    select *from test;
10 ●    select *from test_audit;

11

12 ●    create table acco_details(accno integer, amount integer);
13      delimiter //
14 ●    CREATE TRIGGER before_udates
15          BEFORE INSERT ON acco_details
16          FOR EACH ROW
17          BEGIN
18              IF new.amount < 0   then
19                  set new.amount = 0;
20              elseif new.amount > 100 then
21                  set new.amount = 100;
22              end if;
23          end; //
24      delimiter ;
25 ●    insert into acco_details values(123, -10);
26 ●    insert into acco_details values(124,200);
27 ●    select *from acco_details;
```

Outputs:

sname
Laya

	newname
▶	Laya

	accno	amount
▶	123	0
	124	100