Practical Assignment 2: Write and execute suitable database triggers. Consider row level and statement level triggers.

mysql> create database account;

```
Query OK, 1 row affected (0.01 sec)
mysql> use account
Database changed
mysql> create table account
   -> (
   \rightarrow acc no int(20),
   -> name varchar(20),
   -> amount int(20)
   -> );
Query OK, 0 rows affected, 2 warnings (0.04 sec)
mysql> insert into account values
   -> (1, 'RAJ', 2000),
   -> (2,'AJAY',3000),
   -> (3, 'RAHUL', 6000);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> insert into account values
   -> (4, 'AMIT', 7000),
   -> (5, 'SATISH', 8000);
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select * from account;
+----+
| acc no | name | amount |
+----+
  1 | RAJ | 2000 |
2 | AJAY | 3000 |
     3 | RAHUL | 6000 |
     4 | AMIT | 7000 |
| 5 | SATISH | 8000 |
+----+
5 rows in set (0.00 sec)
mysql> create table account log
   -> (
   \rightarrow acc no int(20),
   -> name varchar(20),
   \rightarrow amount int(20),
   -> tran_type varchar(20),
   -> tran_time timestamp
   -> );
Query OK, 0 rows affected, 2 warnings (0.03 sec)
mysql> desc account;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
```

```
+----+
3 rows in set (0.00 sec)
mysql> desc account log;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
+----+
5 rows in set (0.00 sec)
mysql> create trigger acc log
-> after update
-> on account
-> for each row
-> begin
-> declare tran type varchar(20);
-> declare amt varchar(20);
-> if old.amount > new.amount then
-> SET tran type='Withdraw';
-> SET amt=old.amount-new.amount;
-> else
-> SET tran type='Deposited';
-> SET amt=new.amount-old.amount;
-> end if;
-> insert into account log
values(old.acc no,old.name,amt,tran type,now());
-> end
-> //
Query OK, 0 rows affected (0.07 sec)
mysql> select * from account;
+----+
| acc no | name | amount |
+----+
| 1 | RAJ | 2000 |
| 2 | AJAY | 3000 |
| 3 | RAHUL | 6000 |
    4 | AMIT | 7000 |
    5 | SATISH | 8000 |
+----+
5 rows in set (0.00 sec)
mysql> update account set amount=5000 where acc no=1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from account;
+----+
| acc no | name | amount |
```

```
+----+
| 1 | RAJ | 5000 |
| 2 | AJAY | 3000 |
| 3 | RAHUL | 6000 |
| 4 | AMIT | 7000 |
| 5 | SATISH | 8000 |
```

5 rows in set (0.00 sec)

mysql> select * from account_log; Empty set (0.00 sec)

mysql> update account set amount=4000 where acc_no=1; Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from account;

+	+	++
acc_no	name	amount
+	+	++
1	RAJ	4000
2	AJAY	3000
3	RAHUL	6000
4	AMIT	7000
5	SATISH	8000
+	+	++

5 rows in set (0.00 sec)