1. Create a trigger which acts as an accumulator, summing the values inserted into one of the columns of the table.

PROCEDURE

```
use bank;
CREATE TABLE account (acct_num INT, amount DECIMAL(10,2));
CREATE TRIGGER ins_sum
BEFORE
INSERT ON account
    FOR EACH ROW
    SET @sum = @sum + NEW.amount;
SET @sum = 0;
INSERT INTO account VALUES(137,14.98),(141,1937.50),(97,100.00);
SELECT @sum AS 'Total amount inserted';
```



2. define an UPDATE trigger that checks the new value to be used for updating each row, and modifies the value to be within the range from 0 to 100.

PROCEDURE

```
delimiter //
CREATE TRIGGER upd_check
BEFORE update ON account
   FOR EACH ROW
   BEGIN
     IF NEW.amount < 0 THEN
       SET NEW.amount = 0;
     ELSEIF NEW.amount > 100 THEN
       SET NEW.amount = 100;
     END IF;
   END;//
delimiter;
INSERT INTO account VALUES(101,125);
INSERT INTO account VALUES(102,10);
INSERT INTO account VALUES(103,-50);
select * from account;
       INSERT INTO account VALUES(101,125);
26 •
       INSERT INTO account VALUES(102,10);
27 •
       INSERT INTO account VALUES(103,-50);
       select * from account;
29 •
30
                                       Export: Wrap Cell Content: ‡A
acct_num
           amount
 101
           125.00
          10.00
 102
 103
          -50.00
update account set amount = -50 where acct_num=103;
 update account set amount = 10 where acct num=102;
 update account set amount = 125 where acct_num=101;
```

```
update account set amount = -50 where acct_num=103;
  30 •
  31 •
          update account set amount = 10 where acct_num=102;
           update account set amount = 125 where acct_num=101;
  32 •
<
                                      Export: Wrap Cell Content: 1A
acct_num amount
   101
           100.00
   102
           10.00
   103
           0.00
```