TASK 2

1,

create trigger ins\_sum before insert on account for each row set @sum = @sum + NEW.amount;

input:

INSERT INTO account VALUES(137,14.98),(141,1937.50),(97,-100.00);

output:

SELECT @sum AS 'Total amount inserted'; // 1852.48

input:

insert into account value (1,52.48);

output:

SELECT @sum AS 'Total amount inserted'; //1904.96

input:

insert into account value(2,4.96);

output:

select @sum AS ‘Total amount inserted’; // 1900.00

Summary:

When user insert a data, the trigger will the all amount data of table account. select the sum, we will get the total amount.

2,

create trigger ins\_transaction before insert on account

for each row precedes ins\_sum

set @deposit = @deposit + if(NEW.amount > 0 , new.amount, 0),

@withdrawals = @withdrawals + if(new.amount < 0, -new.amount, 0);

initialization deposit : set @deposit = 1900;

initalization withdrawals: set @withdrawals = 0;

input:

insert into account value(2,10);

output:

select @deposit as ‘Deposit’; // 1910

input:

insert into account value (2,-10);

output:

select @withdrawals as ‘withdrawals’; // 10

Summary:

When we insert a data is nagetive number, the withdrawals will minus this number. when insert the positive number, the deposit will plus this number. In the end, we can select the final deposit and final withdrawals.

3, update check trigger

input:

update account

set amount=-200 where acct\_num=97;

output:

the account acct\_num equal 97 is changed to 0 instead of -300;

input:

update account set amount=200 where acct\_num=97;

output:

the account acct\_num equal 97 is changed to 100 instead of 200.

Summary:

This trigger is that when you update any one data to less 0, the data will be changed to 0. if change the data to greater 100, the data just are allowed to change to 100. Therefore, the account amount just be allowed from 0 to 100;