ADBMS LAB

LAB CYCLE - 2

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ROLL NO : 212 MCA S2

PROGRAM -1

**AIM:** . Construct PL/SQL code for sample databases.

**Sql code:**

create database student;

use student;

drop table Stud;

show tables;

create table Stud(

s\_id VARCHAR(5),

Stud\_NAME VARCHAR(10),

M1 INT,

M2 INT,

M3 INT,

Status VARCHAR(8)

);

call onmark('1','Anju',98,80,81);

call onmark('2','Ann',98,50,41);

call onmark('3','John',98,60,81);

call onmark('4','Joe',38,30,31);

select \*,percentage(M1,M2,M3) from Stud;

**stored procedure:**

CREATE DEFINER=`root`@`localhost` PROCEDURE `onmark`(s\_id varchar(5),Stud\_NAME varchar(10),M1 int,M2 int,M3 int)

BEGIN

IF(M1<40 OR M2<40 OR M3<40) THEN

INSERT INTO Stud values(s\_id,Stud\_NAME,M1,M2,M3,'FAIL');

END IF;

IF(M1>40 AND M2>40 AND M3>40) THEN

INSERT INTO Stud values(s\_id,Stud\_NAME,M1,M2,M3,'PASS');

END IF;

END

**Function.sql:**

CREATE DEFINER=`root`@`localhost` FUNCTION `percentage`(M1 int,M2 int,M3 int) RETURNS int(11)

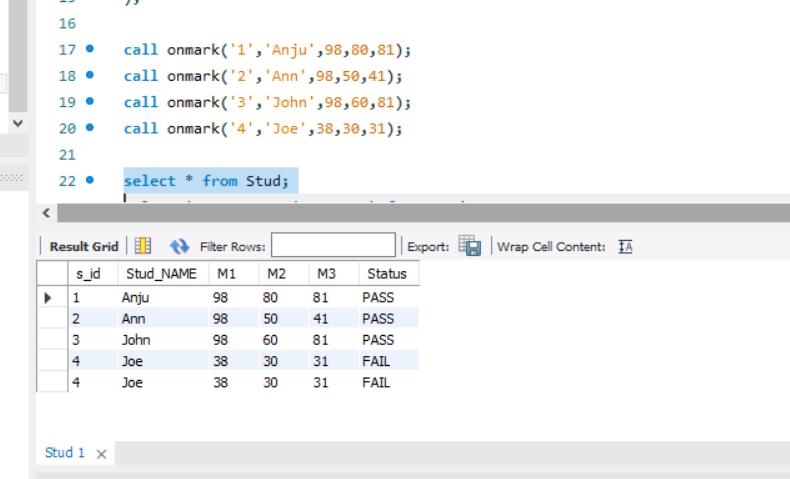
BEGIN

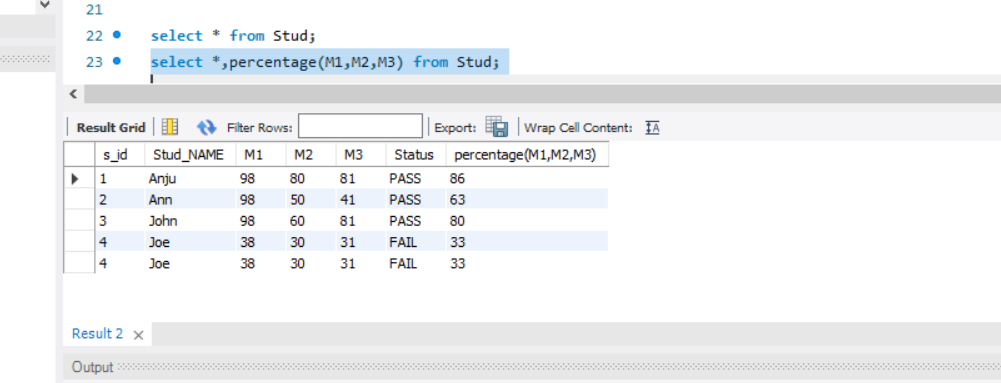
declare percentage float;

RETURN (M1+M2+M3)/3;

END

**OUTPUT**

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**PROGRAM -2**

**AIM:** . Construct Trigger and cursor for sample databases.

**Trigger:**

create database college\_employee;

use college\_employee;

create table new\_employee(emp\_id int,emp\_name varchar(20),emp\_department varchar(20));

insert into new\_employee values(101,'Riya','MCA');

insert into new\_employee values(102,'Rekha','CS');

create table department\_MCA(dept\_id int,dept\_name varchar(20),dept\_emp varchar(20));

create table department\_cs(dept\_id int,dept\_name varchar(20),dept\_emp varchar(20));

insert into new\_employee values(105,'Kevin','MCA');

select \* from new\_employee;

select \* from department\_MCA;

select \* from department\_cs;

drop trigger new\_employee\_AFTER\_INSERT;

-- trigger

/\*

CREATE DEFINER=`root`@`localhost` TRIGGER `new\_employee\_AFTER\_INSERT` AFTER INSERT ON `new\_employee` FOR EACH ROW BEGIN

if(new.emp\_department='MCA') then

insert into department\_MCA set

dept\_id=new.emp\_id,dept\_name=new.emp\_name,dept\_emp="Assist proff filled";

end if;

if(new.emp\_department='CS') then

insert into department\_cs set

dept\_id=new.emp\_id,dept\_name=new.emp\_name,dept\_emp="Assist proff filled";

end if;

END

\*/

**Cursor:**

create database college;

use college;

drop table library;

create table library(shelf\_no int,category varchar(10),book\_name varchar(20));

insert into library values(101,'Topology','Real Analysis');

insert into library values(102,'Algebra','Linear Algebra');

insert into library values(103,'Analysis','Complex Analysis');

insert into library values(104,'OR','Operations Research');

insert into library values(106,'NumberSys','AbstractAlg');

create table book\_by\_order(book\_shelf int,book\_category varchar(20),bookname varchar(20));

select \* from library;

call book\_details();

/\*

CREATE DEFINER=`root`@`localhost` PROCEDURE `book\_details`()

BEGIN

declare book\_shelf int;

declare bookname varchar(20);

declare book\_category varchar(10);

declare C\_finished integer default 0;

declare C1 cursor for select shelf\_no,category,book\_name from library;

declare continue handler for not found set C\_finished = 1;

open C1;

book\_details:loop

if C\_finished=1 then

leave book\_details;

end if;

if C\_finished = 0 then

Fetch from C1 into book\_shelf,book\_category,bookname;

if book\_category = 'OR' then

insert into book\_by\_order values(book\_shelf,bookname,book\_category);

end if;

end if;

end loop;

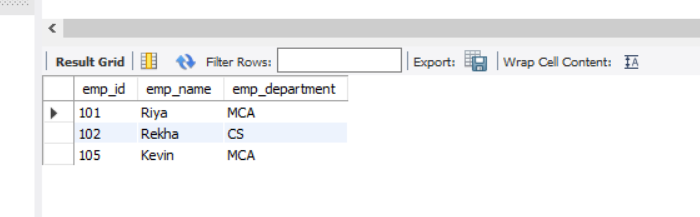
close C1;

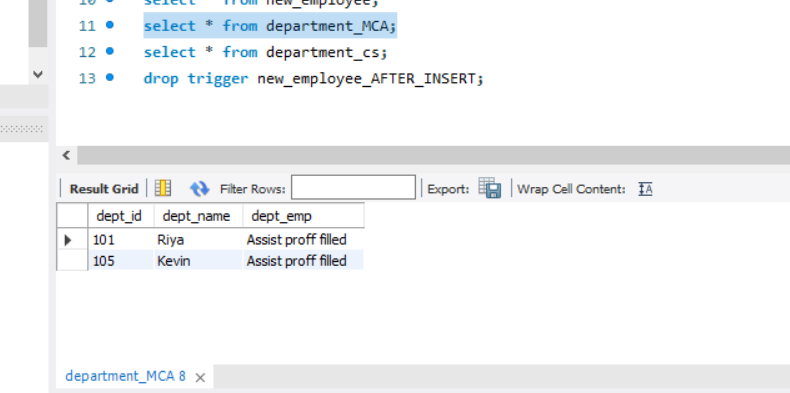
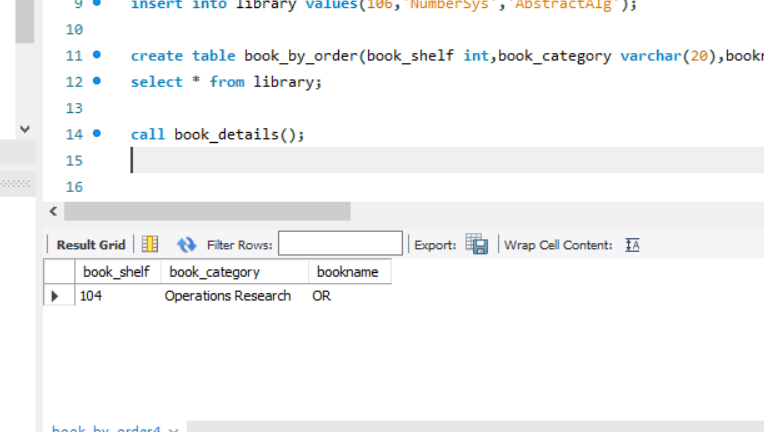
END

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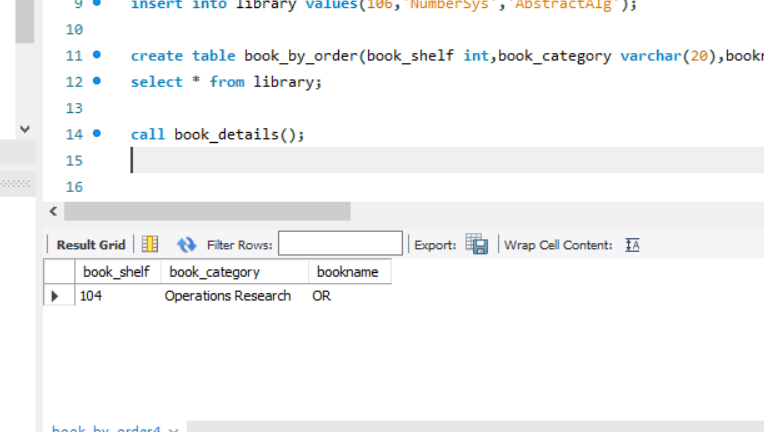
OUTPUT

Trigger:

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Cursor:



**PROGRAM -3**

**AIM:** . Construct Trigger for shop databases for updating each purchase detail in the product database.

**Code:**

create database shop;

use shop;

drop table product;

drop table purchase;

create table product(p\_id int,p\_name varchar(20),quantity int,price int);

create table purchase(pid int ,p\_nm varchar(20),purchased\_quant int);

insert into product values(1,'Soap',5,35);

insert into product values(2,'mirror',3,60);

insert into product values(3,'comb',2,30);

insert into product values(4,'Pen',20,5);

select \* from product;

insert into purchase values(2,'mirror',1);

insert into purchase values(4,'Pen',4);

select \* from purchase;

/\*

CREATE DEFINER=`root`@`localhost` TRIGGER `purchase\_AFTER\_INSERT` AFTER INSERT ON `purchase` FOR EACH ROW BEGIN

set sql\_safe\_updates= 0;

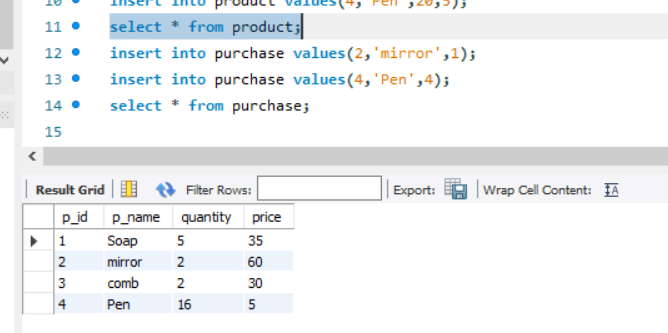
update product set

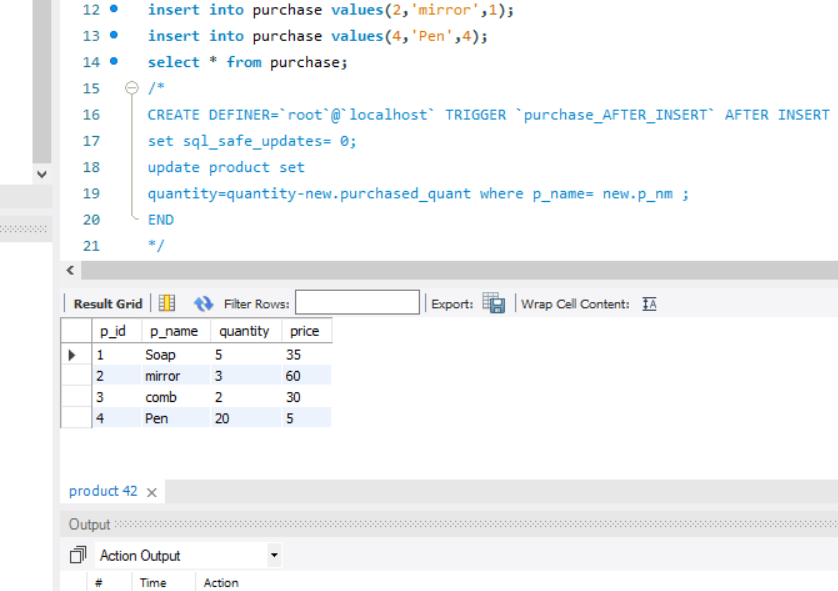
quantity=quantity-new.purchased\_quant where p\_name= new.p\_nm ;

END

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**Output:**

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