**MySQL Programs(Trigger )**

Create the following 3 tables and insert sample data as shown:-

Ord\_master

Ord\_no Cust\_cd Status

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1 C1 P

Ord\_dtl

Ord\_no Prod\_cd Qty

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1 P1 100

1 P2 200

Prod\_master

Prod\_cd Prod\_name Qty\_in\_stock Booked\_qty

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P1 Floppies 10000 1000

P2 Printers 5000 600

P3 Modems 3000 200

CREATE TABLE Ord\_master(Ord\_no INT primary KEY, Cust\_cd VARCHAR(20),Status CHAR);

CREATE TABLE Ord\_dtl(Ord\_no INT,Prod\_cd VARCHAR(20),Qty INT3,CONSTRAINT FK foreign key(Ord\_no) references Ord\_master(Ord\_no));

CREATE TABLE Prod\_master( Prod\_cd varchar(10) primary KEY,Prod\_name VARCHAR(20), Qty\_in\_stock INT4,Booked\_qty INT4);

insert into Ord\_master values(1,'C1','P');

insert into Ord\_dtl values(1,'P1',100),(1,'P2',200);

insert into Prod\_master values('P1','Floppies',10000,1000),('P2','Printers',5000,600),('P3','Modems',3000,200);

1. Write a Before Insert trigger on Ord\_dtl. Anytime a row is inserted in Ord\_dtl, the

Booked\_qty in Prod\_master should be increased accordingly.

delimiter $$

CREATE TRIGGER QUE1 BEFORE INSERT ON Ord\_dtl

FOR EACH ROW

BEGIN

UPDATE Prod\_master SET Booked\_qty=Booked\_qty + NEW.Qty WHERE Prod\_cd=NEW.Prod\_cd;

END$$

insert into Ord\_dtl values(1,'P3',100);

2. Write a Before Delete trigger on Ord\_dtl. Anytime a row is deleted from Ord\_dtl, the

Booked\_qty in Prod\_mastershould be decreased accordingly.

delimiter $$

CREATE TRIGGER QUE2 AFTER DELETE ON Ord\_dtl

FOR EACH ROW

BEGIN

UPDATE Prod\_master SET Booked\_qty=Booked\_qty - OLD.Qty WHERE Prod\_cd=OLD.Prod\_cd;

END$$

3. write A trigger to update the total salary of a department in dept\_sal table when an employee is added or removed from emp table .

CREATE TABLE dept\_sal (dept\_no INT , tota\_salary INT4);

INSERT INTO DEPT\_SAL VALUES(30,1950),(10,12000);

delimiter $$

CREATE TRIGGER QUE3 AFTER INSERT ON EMP

FOR EACH ROW

BEGIN

UPDATE DEPT\_SAL SET tota\_salary=tota\_salary + NEW.SAL WHERE DEPT\_NO=NEW.DEPTNO;

END$$

Create table dept\_sal (dept\_no, tota\_salary) – this table contains the total of salaries of employees working into that particular department

delimiter $$

CREATE TRIGGER QUE4 AFTER DELETE ON EMP

FOR EACH ROW

BEGIN

UPDATE DEPT\_SAL SET tota\_salary=tota\_salary - OLD.SAL WHERE DEPT\_NO=OLD.DEPTNO;

END$$