Extra Credit

1.

CREATE TABLE Product(pid CHAR(10), name VARCHAR(30), description VARCHAR (50), price DOUBLE, quantity INT, primary key(pid));

CREATE TABLE Customer(cid CHAR(10), name VARCHAR(30), address VARCHAR (50), phone VARCHAR (15), email VARCHAR (40), primary key(cid));

CREATE TABLE Invoice(id CHAR(10), cid CHAR(10), pid CHAR(10), quantity INT, state VARCHAR(10), datetime DATETIME, primary key(id, cid, pid), foreign key(cid) references Customer(cid), foreign key(pid) references Product(pid));

2. SELECT id, DATE(datetime) FROM Invoice, Customer WHERE state = “paid”;

3. SELECT C.name, P.description FROM Customer C, Invoice I, Product P WHERE id = “234567” AND I.cid=C.cid AND I.pid=P.pid;

4. SELECT (P.price\*I.quantity) AS without\_tax, (P.price\*I.quantity\*1.06) AS with\_tax FROM Invoice I, Product P WHERE I.pid=P.pid AND I.state = “delivered”;

5. SELECT MAX(SELECT SUM(I.quantity) FROM Customer Ca, Invoice Ia WHERE Ca.cid=Ia.cid) FROM Customer C, Invoice I WHERE C.cid=I.cid;

6. SELECT C.name FROM Customer C, Product P, Invoice I WHERE C.cid = I.cid AND I.pid = P.pid ORDER BY SUM(P.price\*I.quantity) DESC;

7. SELECT SUM(P.price\*I.quantity) FROM Customer C, Invoice I, Product P WHERE I.cid = C.cid AND I.pid = P.pid GROUP BY MONTH(I.datetime);