```sql
drop  database qlvt
go
create database QLVT
go
use QLVT
go
create table KHACHHANG
(
        MAKH    Nvarchar(5)    primary key,
        TENKH   Nvarchar(30)not null,
        DIACHI  Nvarchar(50),
        DT      Nvarchar(15),
        EMAIL   Nvarchar(30)
)
go
create table VATTU
(
        MAVT    Nvarchar(5)    primary key,
        TENVT   Nvarchar(30)not null,
        DVT     Nvarchar(20),
        GIAMUA  Numeric check(GIAMUA>0),
        SLTON   Numeric check(SLTON>=0)
)
go
create table HOADON
(
        MAHD    Nvarchar(10)   primary key,
        NGAY    DateTime check(NGAY<Getdate()),
        MAKH    Nvarchar(5),
        TONGTG  Numeric
)
go
create table CHITIETHOADON
(
        MAHD    Nvarchar(10)foreign key references HOADON,
        MAVT    Nvarchar(5)foreign key references VATTU,
        SL      Numeric check(SL>0),
        KHUYENMAI       Numeric,
        GIABAN  Numeric,
        primary key (MAHD,MAVT)
)
go

Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT01','XI
MANG','BAO',50000,5000)
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON)
values('VT02','CAT','KHOI',45000,50000)
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT03','GACH
ONG','VIEN',120,800000)
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT04','GACH
THE','VIEN',110,800000)
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT05','DA
LON','KHOI',25000,100000)
```

```sql
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT06','DA
NHO','KHOI',33000,100000)
Insert into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON) values('VT07','LAM
GIO','CAI',15000,50000)

Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH01','NGUYEN
THI BE','TAN BINH','8457895','bnt@yahoo.com')
Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH02','LE HOANG
NAM','BINH CHANH','9878987','namlehoang@abc.com.vn')
Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH03','TRAN THI
CHIEU','TAN BINH','8457895',null)
Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH04','MAI THI
QUE ANH','BINH CHANH',null,null)
Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH05','LE VAN
SANG','QUAN 10',null,'sanglv@hcm.vnn.vn')
Insert into KHACHHANG(MAKH,TENKH,DIACHI,DT,EMAIL) values('KH06','TRAN
HOANG KHAI','TAN BINH','8457897',null)

Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD001',convert(DateTime,'12/05/2000',103),'KH01',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD002',convert(DateTime,'25/05/2000',103),'KH02',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD003',convert(DateTime,'25/05/2000',103),'KH01',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD004',convert(DateTime,'25/05/2000',103),'KH04',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD005',convert(DateTime,'26/05/2000',103),'KH04',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD006',convert(DateTime,'02/06/2000',103),'KH03',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD007',convert(DateTime,'22/06/2000',103),'KH04',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD008',convert(DateTime,'25/06/2000',103),'KH03',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD009',convert(DateTime,'15/08/2000',103),'KH04',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD010',convert(DateTime,'30/09/2000',103),'KH01',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD011',convert(DateTime,'27/12/2000',103),'KH06',null)
Insert into HOADON(MAHD,NGAY,MAKH,TONGTG)
values('HD012',convert(DateTime,'27/12/2000',103),'KH01',null)

Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD001','VT01',5,null,52000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD001','VT05',10,null,30000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD002','VT03',10000,null,150)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD003','VT02',20,null,55000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD004','VT03',50000,null,150)
```

```
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD004','VT04',20000,null,120)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD005','VT05',10,null,30000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD005','VT06',15,null,35000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD005','VT07',20,null,17000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD006','VT04',10000,null,120)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD007','VT04',20000,null,125)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD008','VT01',100,null,55000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD008','VT02',20,null,47000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD009','VT02',25,null,48000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD010','VT01',25,null,57000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD011','VT01',20,null,55000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD011','VT02',20,null,45000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD012','VT01',20,null,55000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD012','VT02',10,null,48000)
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD012','VT03',10000,null,150)


--2.    Không cho phép cascade delete trong các rằng buộc khoá ngoại. Ví dụ
không cho phép xoá các CTHOADON nào có SOHD còn trong table HOADON
drop trigger T2
alter trigger T2 on CHITIETHOADON
for delete
as
        if exists (select * from deleted d, CHITIETHOADON c where d.MAHD =
c.MAHD)
                begin
                        print N'Khong xoa duoc HD nay'
                        rollback tran
                end
select * from HOADON
select * from CHITIETHOADON
Insert into CHITIETHOADON(MAHD,MAVT,SL,KHUYENMAI,GIABAN)
values('HD013','VT03',20000,null,150)
delete from CHITIETHOADON where MAHD = 'HD001' and MAVT = 'VT01'
--3.    không cho phép user nhập vào hai vật tư có cùng tên.
drop trigger T3
alter trigger T3 on VATTU
for insert,update
as
```

```sql
        if (select COUNT(*) from inserted i, VATTU v where i.TENVT =
v.TENVT) > 1
                begin
                        print N'Khong cho phep trung ten'
                        rollback tran
                end
select * from VATTU
Insert into VATTU values('VT10','XI MANG','CAI',10000,60000)
--4.    Khi user đặt hàng thì KHUYENMAI là 5% nếu SL >100, 10% nếu SL >500.
drop trigger T4
alter trigger T4 on CHITIETHOADON
for insert, update
as
        update CHITIETHOADON set KHUYENMAI = case

        when SL > 100 and SL <= 500 then (GIABAN*SL)*0.05

        when SL > 500 then (GIABAN*SL)*0.1

        else 0

        end
        where MAHD in (select MAHD from inserted) and MAVT in (select MAVT
from inserted)
Insert into CHITIETHOADON values('HD001','VT04',30000,null,15000)
select * from CHITIETHOADON
delete from CHITIETHOADON where MAHD  = 'HD012' and MAVT = 'VT03'
--5.    Chỉ cho phép mua các mặt  hàng có số lượng tồn lớn hơn hoặc bằng số
lượng cần mua và tính lại số lượng tồn mỗi khi có đơn hàng.
create trigger T5 on CHITIETHOADON
for insert, update
as
        if exists (select * from inserted i, VATTU v where i.MAVT = v.MAVT)
                begin
                        print N'So luong ton khong du de ban'
                        rollback tran
                end
        else
                update VATTU set SLTON = SLTON - (select SL from inserted i
where i.MAVT = VATTU.MAVT)

select * from VATTU
select * from CHITIETHOADON
Insert into CHITIETHOADON values('HD001','VT02',30000,null,15000)

--6.    Không cho phép user xoá một lúc nhiều hơn một vật tư.
--7.    Chỉ bán mặt hàng GẠCH (các loại gạcg) với số lượng là bội số của
100.
```