```sql
CREATE DATABASE QLBH2
ON Primary
(
NAME = QLBH_Data,
FILENAME = 'C:\Program Files\Microsoft SQL
Server\MSSQL15.SQLEXPRESS01\MSSQL\DATA\QLBH2.mdf',
SIZE = 50MB,
MAXSIZE = 100MB,
FILEGROWTH = 10%
)
LOG ON
(
NAME=QLBH_Log,
FILENAME='C:\Program Files\Microsoft SQL
Server\MSSQL15.SQLEXPRESS01\MSSQL\DATA\QLBH2_Log.ldf',
SIZE=10MB,
MAXSIZE = UNLIMITED,
FILEGROWTH = 5MB
);
USE QLBH2;
CREATE TABLE VATTU
(
        MaVTu char(4) primary key,
        TenVTu nvarchar(30),
        DVTinh nvarchar(10),
        Dongia int
)
CREATE TABLE NHACC
(
        Manhacc char(4) primary key,
        Tennhacc nvarchar(30),
        Diachi nvarchar(30),
        DienThoai char(15)
)
CREATE TABLE DONDH
(
        SoDH int primary key,
        NgayDH datetime,
        Manhacc char(4) foreign key references NHACC
)
CREATE TABLE CTDONDH
(
        SoDH int foreign key references DONDH,
        MaVTu char(4) foreign key references VATTU,
        SLDat int,
        primary key(SoDH,MaVTu)
)
CREATE TABLE PNHAP
(
        SoPN char(4) primary key,
        SoDH int ,
        Ngaynhap datetime
)
CREATE TABLE CTPNHAP
(
        SoPN char(4) foreign key references PNHAP,
        MaVTu char(4) foreign key references VATTU,
        Slnhap int,
```

```sql
        primary key(SoPN,MaVTu)
)
CREATE TABLE PXUAT
(
        SoPX char(4) primary key,
        Ngayxuat datetime
)
CREATE TABLE CTPXUAT
(
        SoPX char(4) foreign key references PXUAT,
        MaVTu char(4)foreign key references VATTU,
        SLXuat int,
        primary key(SoPX,MaVTu)
)
CREATE TABLE TONKHO
(
        NAMTHANG char(7),
        MaVTu char(4) foreign key references VATTU,
        TONGNHAP int,
        TONGXUAT int,
        SLTonKho int
)

set dateformat ymd
insert into VATTU values
('DD01',N'ĐẦU DVD','gnhg',145),
('DD02',N'ĐẦU DVD','hgg',78),
('DD03',N'FGFG','BN',4),
('LO01',N'Loa Thùng','vhb',123),
('LO02',N'Loa Thùng','tan',44),
('LO03',N'Loa Thùng','kg',20),
('TV01',N'Tivi Sony','tan',10),
('TV02',N'Tivi Sanyo','dt',45),
('VT01',N'Gạch',N'Viên',200),
('VT02',N'Ngói',N'Viên',9),
('VT03',N'Xi măng','kg',13),
('VT04',N'Sắt','kg',80),
('VT05',N'Vôi','tấn',9),
('VT06',N'Sơn','thùng',45)
insert into NHACC values
('CC01',N'Nguyễn Văn An',null,null),
('CC02',N'Lê B',null,null),
('CC03',N'Phạm C',null,null),
('CC04',N'Nguyễn Thế',null,null),
('CC06',N'Phạm Nghị',null,null),
('CC07',N'Hồng Ánh',null,null),
('CC08',N'Nguyễn Cường',null,null),
('CC66',N'XNK ggh','gfhf','096432'),
('CC72',N'XNK ggh','gfhf','096432'),
('CC79',N'XNK ggh','gfhf','096432')
insert into DONDH values
(1,'2012/05/01','CC02'),
(2,'2012/07/15','CC02'),
(3,'2012/07/15','CC01'),
(4,'2012/04/06','CC03'),
(5,'2012/08/07','CC04'),
(6,'2014/03/03','CC01'),
(7,'2014/03/03','CC01'),
```

```sql
(15,'2014/01/01','CC01')
insert into CTDONDH values
(1,'VT01',100),
(1,'VT02',400),
(1,'VT03',700),
(1,'VT04',100),
(1,'VT06',100),
(2,'VT01',80),
(2,'VT02',3),
(2,'VT03',90),
(3,'VT01',250),
(3,'VT02',500),
(3,'VT03',50),
(3,'VT04',49),
(3,'VT05',2),
(4,'VT01',100),
(4,'VT02',70),
(4,'VT03',50),
(5,'VT01',100),
(5,'VT03',300),
(6,'VT01',50),
(6,'VT02',100),
(6,'VT03',50),
(6,'VT04',500),
(6,'VT05',100),
(7,'VT01',80),
(15,'VT01',80),
(15,'VT02',15),
(15,'VT03',17)
insert into PNHAP values
('PN01',1,'2012/07/08'),
('PN02',1,'2012/08/12'),
('PN03',1,'2012/07/12'),
('PN04',2,'2012/10/02'),
('PN05',2,'2012/07/15'),
('PN06',3,'2012/09/01'),
('PN07',4,'2012/03/05'),
('PN08',5,'2012/09/02'),
('PN09',5,'2012/10/02'),
('PN10',6,'2013/01/31'),
('PN11',19,'2014/03/03'),
('PN12',5,'2014/03/03'),
('PN13',15,'2017/04/20'),
('PN14',15,'2017/04/20'),
('PN16',15,'2017/04/20'),
('PN17',1,'2017/04/20'),
('PN18',1,'2017/04/20'),
('PN19',1,'2017/04/20'),
('PN20',15,'2017/04/03'),
('PN24',15,'2015/02/02'),
('PN26',3,'2017/12/03'),
('PN34',12,'2017/12/03')
insert into CTPNHAP values
('PN01','VT01',20),
('PN01','VT02',50),
('PN01','VT03',30),
('PN01','VT06',100),
('PN02','VT01',30),
```

```sql
('PN02','VT03',50),
('PN02','VT04',345),
('PN02','VT05',35),
('PN03','VT01',20),
('PN03','VT02',80),
('PN03','VT03',40),
('PN04','VT01',80),
('PN05','VT04',150),
('PN06','VT02',500),
('PN06','VT03',50),
('PN07','VT01',100),
('PN07','VT02',50),
('PN07','VT03',50),
('PN08','VT03',120),
('PN09','VT03',150),
('PN10','VT01',50),
('PN10','VT02',190),
('PN10','VT05',67)
ALTER TABLE PXUAT ADD TongTien int
insert into PXUAT values
('PX01','2012/07/02',53200),
('PX02','2013/04/06',19192),
('PX03','2013/04/06',24426),
('PX04','2017/01/01',10800),
('PX05','2015/03/03',56795),
('PX06','2015/03/03',260)
insert into CTPXUAT values
('PX01','VT01',300),
('PX01','VT03',500),
('PX02','VT01',100),
('PX02','VT02',40),
('PX02','VT03',50),
('PX02','VT05',35),
('PX03','VT01',100),
('PX03','VT02',60),
('PX03','VT03',200),
('PX03','VT04',50),
('PX04','VT01',60),
('PX05','VT01',55),
('PX05','VT02',6666),
('PX06','VT03',20),
('PX06','VT02',30)
insert into TONKHO values
('02/2010','VT02',680,100,580),
('02/2010','VT03',490,250,240),
('02/2010','VT04',150,50,100),
('02/2010','VT05',67,NULL,NULL),
('02/2010','VT06',100,null,null),
('2010/02','VT01',330,230,100),
('2010/02','VT02',680,100,580),
('2010/02','VT03',490,250,240),
('2010/02','VT04',150,50,100),
('2010/02','VT05',67,null,null),
('2010/02','VT06',100,null,null),
('2012/07','VT01',330,230,100),
('2012/07','VT02',680,100,580),
('2012/07','VT03',490,250,240),
('2012/07','VT04',150,50,100)
```

```sql
select * from CTPNHAP;
-- 2.11. Hiện số lượng nhập hàng của các vật tư có đơn đặt hàng là N.
create view cau211 as
select Slnhap from
CTPNHAP C  join PNHAP P on C.SoPN = P.SoPN
where SoDH = 30

drop database QLBH
use QLBH2

create procedure Cau1 @SoDH char(4), @Cau1 int output
as
select

-- cau 1 Xây dựng thủ tục tính tổng trị giá của một sodh
create PROCEDURE TT1  @SoDH  CHAR(4), @TT1 INT OUTPUT
AS
SELECT @TT1 = sum(Dongia * SLDat)
FROM CTDONDH C JOIN VATTU V ON C.MaVTu = V.MaVTu
where SoDH = @SoDH
group by SoDH


DECLARE @ttien INT
EXEC TT1 '1', @ttien OUTPUT
PRINT 'Tong tien:' + CONVERT(CHAR(7), @TTIEN)

-- cau 2 : Tạo thủ tục tính tổng tiền của 1 phiếu nhập hàng.
create PROCEDURE cau2  @SoPN  CHAR(4), @cau2 INT OUTPUT
AS
SELECT @cau2 = sum(Dongia * Slnhap)
FROM CTPNHAP C JOIN VATTU V ON C.MaVTu = V.MaVTu
where SoPN = @SoPN
group by SoPN

DECLARE @ttiennhap INT
EXEC cau2 'PN01', @ttiennhap OUTPUT
PRINT 'Tong tien:' + CONVERT(CHAR(7), @ttiennhap)

-- cau 3 : Tạo thủ tục tính tổng tiền của 1 phiếu xuất hàng.
create PROCEDURE cau3  @SoPX  CHAR(4), @cau3 INT OUTPUT
AS
SELECT @cau3 = sum(Dongia * SLXuat)
FROM CTPXUAT C JOIN VATTU V ON C.MaVTu = V.MaVTu
where SoPX = @SoPX
group by SoPX

DECLARE @ttienxuat INT
EXEC cau3 'PX01', @ttienxuat OUTPUT
PRINT 'Tong tien:' + CONVERT(CHAR(7), @ttienxuat)

-- cau 4 : Xây dựng thủ tục tính tổng số lượng nhập,
-- Tổng số lượng xuất của 1 vật tư trong tháng năm nào đó:
Alter PROCEDURE cau4 @tenvattu nvarchar(30),@ngay char(7),@cau4 int output
as

Select @cau4 = sum(Slnhap)
```

```sql
        From CTPNHAP C
                Inner join PNHAP P on C.SoPN= P.SoPN
                inner join VATTU V on V.MaVTu= C.MaVTu
where convert(char(7), Ngaynhap,21)=@ngay and V.tenvtu=@tenvattu
Group by V.tenvtu

declare  @tenvattu nvarchar(30), @ngay char(7),@Tong int
exec cau4 N'Gạch' ,'2012-03', @Tong output
print 'Tong tien ' + convert (char(10), @Tong)

-- Cau 5 Xây dựng thủ tục trả về danh sách các tên
-- vật tư có số lượng đặt hàng nhiều nhất trong năm tháng nào đó.
alter procedure cau5 @ngaydh nvarchar(7) , @cau5 int output
as
        select SUM(SLDat)
        from VATTU V join CTDONDH C on V.MaVTu = C.MaVTu
        join DONDH DH on DH.SoDH = C.SoDH
        where convert(char(7),NgayDH,21)= @ngaydh
        group by V.MaVTu, TenVTu
        order by sum(SLDat) DESC

declare @TongSLdat int
exec cau5 '2012-05', @TongSLdat output
print 'Tong sl dat la' + convert(char(10), @TongSLdat)

-- cau 6: Hiện số lượng nhập hàng của các vật tư có đơn đặt hàng là N bang cursor
create proc cau6
        @s_sodh int, @s_cur cursor varying output
as
set @s_cur=cursor
keyset
for
        select TenVTu,sum(SLNhap)
        from VATTU vt
        join CTPNHAP ct on ct.MaVtu=vt.MaVTu
        join PNHAP pn on pn.SoPN=ct.SoPN
        where SoDH =@s_sodh
        group by vt.MaVTu,vt.TenVTu
open @s_cur


declare @s_tenvtu nvarchar(20),@s_tsln int
declare @cur_c6 cursor
exec cau6 2,@cur_c6 output
        while 0=0
                begin
                        fetch next from @cur_c6 into @s_tenvtu,@s_tsln
                        if @@FETCH_STATUS <>0 break
                        print @s_tenvtu+str(@s_tsln,10)
                end
close @cur_c6
deallocate @cur_c6

-- cau 7 Viết thủ tục tính tổng số lượng đặt hàng của 1 vật tư trong tháng năm nào đó
alter proc cau7_1
        @ngaydat nvarchar(7), @cur7 cursor varying output
as
set @cur7 = cursor
```

```sql
keyset
for
        select TenVTu, SUM(SLDat)
        from VATTU V join CTDONDH C on V.MaVTu = C.MaVTu
        join DONDH DH on DH.SoDH = C.SoDH
        where convert(char(7),NgayDH,21)= @ngaydat
        group by V.MaVTu, TenVTu
        order by sum(SLDat) DESC
open @cur7
--- chay thu tuc
declare @tenvtu nvarchar(30),@sumsldat int
declare @cur_c7 cursor

exec cau7_1 '2012-05', @cur_c7 output
        while 0 = 0
                begin
                fetch next from @cur_c7  into @tenvtu, @sumsldat
                if @@FETCH_STATUS <>0 break
                print @tenvtu + ' ' + convert(char(7), @sumsldat)
                end
close @cur_c7
deallocate @cur_c7
```