-- procedure

-- CÂU 1

CREATE PROCEDURE SP\_DSKH (@NGAY INT)

AS

BEGIN

SELECT \*

FROM KhachHang,HOADON

WHERE KhachHang.MaKH=HOADON.MaKH AND DAY(NgayLap)=@NGAY

END

EXEC SP\_DSKH 25

GO

-- CÂU 2

CREATE PROC SP\_DH(@KH INT)

AS

SELECT DISTINCT MaKH

FROM dbo.CHITIETHOADON,dbo.HOADON

WHERE dbo.CHITIETHOADON.SoHD=dbo.HOADON.SoHD

GROUP BY dbo.CHITIETHOADON.SoHD ,MaVT,MaKH

HAVING SUM (GiaBan\*SoLuong)>@KH

GO

EXEC dbo.SP\_DH @KH = 1000000 -- int

-- CÂU 3

CREATE PROC CAU3 (@X INT)

AS

SELECT TOP (@X) WITH TIES MaKH,SUM(GiaBan\*SoLuong) AS[TỔNG TIỀN]

FROM dbo.CHITIETHOADON,dbo.HOADON

WHERE dbo.CHITIETHOADON.SoHD=dbo.HOADON.SoHD

GROUP BY MaKH,dbo.CHITIETHOADON.SoHD

ORDER BY [TỔNG TIỀN] DESC

GO

EXEC CAU3 @X =1

-- CÂU 4

CREATE PROC CAU4 (@X INT)

AS

SELECT TOP (@X) WITH TIES MaVT,SUM(SoLuong) AS [SỐ HÀNG BÁN ĐƯỢC]

FROM dbo.CHITIETHOADON

GROUP BY MaVT

ORDER BY [SỐ HÀNG BÁN ĐƯỢC] DESC

GO

EXEC CAU4 @X =2

-- CÂU 5

CREATE PROC CAU5 (@X INT)

AS

SELECT TOP (@X) WITH TIES VATTU.MaVT,SUM((GiaBan\*SoLuong)-(GiaMua\*SoLuong)) AS [LÃI]

FROM dbo.VATTU,dbo.CHITIETHOADON

WHERE VATTU.MaVT=CHITIETHOADON.MaVT

GROUP BY VATTU.MaVT

ORDER BY [LÃI] ASC

GO

EXEC CAU5 @X=5

DROP PROC CAU5

--CÂU 6

CREATE PROC CAU6 (@X INT)

AS

SELECT TOP (@X) WITH TIES HOADON.SoHD,SUM(GiaBan\*SoLuong) AS[TỔNG TIỀN]

FROM dbo.CHITIETHOADON,dbo.HOADON

WHERE dbo.CHITIETHOADON.SoHD=dbo.HOADON.SoHD

GROUP BY HOADON.SoHD,dbo.CHITIETHOADON.SoHD

ORDER BY [TỔNG TIỀN] DESC

GO

EXEC CAU6 @X =3

-- CÂU 7

CREATE PROC SP\_UPDATEKM

AS

BEGIN

SELECT SoHD,SoLuong,KhuyenMai = CASE WHEN (SoLuong>100 AND SoLuong<=500) THEN '5%' WHEN (SoLuong>500) THEN '10%' END

FROM CHITIETHOADON

END

EXEC SP\_UPDATEKM

GO

DROP PROC SP\_UPDATEKM

-- CÂU 8

CREATE PROC SP\_TONGSoLuongBAN

AS

BEGIN

SELECT VATTU.MaVT,TenVT,SLTON=(SLTON-SUM(SoLuong))

FROM VATTU,CHITIETHOADON

WHERE VATTU.MaVT=CHITIETHOADON.MaVT

GROUP BY VATTU.MaVT,TenVT,SLTON

END

EXEC SP\_TONGSoLuongBAN

GO

-- CÂU 9

CREATE PROC SP\_TRIGIAMOIHOADON

AS

BEGIN

SELECT HOADON.SoHD,TongTG=SUM(SoLuong\*GiaBan)

FROM HOADON,CHITIETHOADON

WHERE HOADON.SoHD=CHITIETHOADON.SoHD

GROUP BY HOADON.SoHD

END

DROP PROC SP\_TRIGIAMOIHOADON

EXEC SP\_TRIGIAMOIHOADON

GO

USE QL\_BANHANG

GO

--CÂU 10

CREATE TABLE KH\_VIP

(

MaKH VARCHAR(5) PRIMARY KEY,

TenKH NVARCHAR(30),

DiaChi NVARCHAR(50),

DT VARCHAR(11),

Email VARCHAR(30)

)

DROP TABLE dbo.KH\_VIP

SELECT \*

FROM KH\_VIP

CREATE PROC CAU10

AS

BEGIN

DECLARE @MaKH VARCHAR(5)

DECLARE @TenKH NVARCHAR(30)

DECLARE @DiaChi NVARCHAR(50)

DECLARE @DT VARCHAR(11)

DECLARE @Email VARCHAR(30)

SELECT @MaKH=KHACHHANG.MaKH,@TenKH=TenKH,@DiaChi=DiaChi,@DT=DT,@Email=Email

FROM HOADON,KhachHang,CHITIETHOADON

WHERE HOADON.MaKH=KhachHang.MaKH AND CHITIETHOADON.SoHD = HOADON.SoHD AND TongTG>=10000000

GROUP BY KHACHHANG.MaKH,TongTG,TenKH,DiaChi,DT,Email

DECLARE @I INT

SET @I=0

INSERT INTO KH\_VIP VALUES(@MaKH,@TenKH,@DiaChi,@DT,@Email)

END

SELECT \*

FROM HOADON,KhachHang,CHITIETHOADON

WHERE HOADON.MaKH=KhachHang.MaKH AND CHITIETHOADON.SoHD = HOADON.SoHD AND TongTG>=10000000

UPDATE HOADON SET TongTG = 12000000

SELECT MaKH,HOADON.SoHD,TongTG=(SoLuong\*GiaBan)

FROM HOADON,CHITIETHOADON

WHERE HOADON.SoHD=CHITIETHOADON.SoHD

GROUP BY HOADON.SoHD,TongTG,SoLuong,GiaBan,MaKH

ORDER BY TongTG DESC

GO

DROP PROC CAU10

EXEC CAU10

SELECT \*

FROM KH\_VIP

--FUNCION

--CÂU 1

GO

CREATE FUNCTION [FUN\_DOANHTHU\_NAM](@NAM INT)

RETURNS INT

AS

BEGIN

RETURN

(

SELECT SUM(GiaBan\*SoLuong) AS [TỔNG DOANH THU CỦA NĂM]

FROM dbo.HOADON,dbo.CHITIETHOADON

WHERE YEAR(NgayLap)=@NAM

)

END

GO

DROP FUNCTION [FUN\_DOANHTHU\_NAM]

SELECT dbo.FUN\_DOANHTHU\_NAM(2010)

-- CÂU 2

CREATE FUNCTION FUNN\_DOANHTHU\_X (@THANG INT ,@NAM INT)

RETURNS INT

AS

BEGIN

RETURN

(SELECT SUM(GiaBan\*SoLuong) AS [TỔNG DOANH THU CỦA THÁNG VÀ NĂM]

FROM dbo.HOADON,dbo.CHITIETHOADON

WHERE (HOADON.SoHD=CHITIETHOADON.SoHD) AND (MONTH(NgayLap)=@THANG) AND (YEAR(NgayLap)=@NAM)

)

END

GO

DROP FUNCTION dbo.FUNN\_DOANHTHU\_X

GO

SELECT dbo.FUNN\_DOANHTHU\_X(5 , 2010)

--CÂU 3

CREATE FUNCTION [FUN\_DOANHTHU\_MAKH] (@MaKH INT)

RETURNS INT

AS

BEGIN

RETURN

(

SELECT SUM(GiaBan\*SoLuong) AS[DOANH THU CỦA KHÁCH HÀNG]

FROM dbo.HOADON,dbo.CHITIETHOADON

WHERE HOADON.MaKH=@MaKH

)

END

GO

DROP FUNCTION FUN\_DOANHTHU\_MAKH

EXEC dbo.FUN\_DOANHTHU\_MAKH(02)

-- CÂU 4

CREATE FUNCTION fun\_doanhthu\_tungmathang(@MaVT varchar(10),@THANG INT,@NAM INT)

RETURNS INT

AS

BEGIN

DECLARE @TINHTONG INT

SET @TINHTONG=

(SELECT SUM(SoLuong) AS [SỐ LƯỢNG BÁN RA CỦA MẶT HÀNG]

FROM CHITIETHOADON,HOADON

WHERE CHITIETHOADON.SoHD=HOADON.SoHD AND MaVT=@MaVT and MONTH(NgayLap)=@THANG AND YEAR(NgayLap)=@NAM

)

RETURN @TINHTONG

END

GO

DROP FUNCTION fun\_doanhthu\_tungmathang

SELECT dbo.fun\_doanhthu\_tungmathang('VT03',5,2010)

-- CÂU 5

CREATE FUNCTION F\_LAI(@MaVT VARCHAR(10))

RETURNS BIGINT

AS

BEGIN

DECLARE @LAI BIGINT

IF(@MaVT IS NULL)

BEGIN

SELECT @LAI = SUM (SoLuong\*(GiaBan-GiaMua))

FROM CHITIETHOADON,VATTU

WHERE CHITIETHOADON.MaVT=VATTU.MaVT

END

ELSE

BEGIN

SELECT @LAI = SUM (SoLuong\*(GiaBan-GiaMua))

FROM HOADON,CHITIETHOADON,VATTU

WHERE CHITIETHOADON.MaVT=VATTU.MaVT AND VATTU.MaVT=@MaVT

END

RETURN @LAI

END

GO

DROP FUNCTION F\_LAI

SELECT dbo.F\_LAI('VT03')

-- TRIGGER

--CÂU 1

--CÂU 2

--CÂU 3

CREATE TRIGGER [KHONG\_TRUNG\_TEN]

ON VATTU

FOR INSERT

AS

IF(SELECT COUNT(\*)

FROM VATTU V1,VATTU V2

WHERE V1.TenVT=V2.TenVT)> 0

BEGIN

PRINT N'ĐÃ TỒN TẠI VẬT TƯ'

ROLLBACK TRAN

END

Insert Into VATTU(MAVT,TENVT,DVT,GIAMUA,SLTON)

Values('VT11',N'Xi măng',N'Bao',50000,5000)

--CAU 4

SELECT \*

FROM CHITIETHOADON c join VATTU v on v.MaVT = c.MaVT

DROP TRIGGER [dbo].[CAP NHAT KHUYEN MAI]

CREATE TRIGGER [dbo].[CAP NHAT KHUYEN MAI] ON [dbo].[CHITIETHOADON]

FOR INSERT, UPDATE

AS

BEGIN

DECLARE @SoLuong BIGINT, @KHUYENMAI INT

SELECT @SoLuong = (SELECT SoLuong FROM INSERTED)

IF @SoLuong > 500

BEGIN

UPDATE CHITIETHOADON

SET KhuyenMai = 10

WHERE SoHD = (SELECT SoHD FROM inserted) AND MaVT = (SELECT MaVT FROM inserted)

END

ELSE IF @SoLuong > 100

BEGIN

UPDATE CHITIETHOADON

SET KhuyenMai = 5

WHERE SoHD = (SELECT SoHD FROM inserted) AND MaVT = (SELECT MaVT FROM inserted)

END

END

GO

SELECT \* FROM CHITIETHOADON

INSERT INTO CHITIETHOADON VALUES('HD001','VT03',33000,300 ,NULL)

INSERT INTO CHITIETHOADON VALUES('HD002','VT05',99,5000 ,NULL)

INSERT INTO CHITIETHOADON VALUES('HD003','VT06',150,9000 ,NULL)

--CAU 5

DROP TRIGGER [CAU 5 TRIGGER]

CREATE TRIGGER [CAU 5 TRIGGER] ON CHITIETHOADON

FOR INSERT

AS

BEGIN

DECLARE @SoLuongMua BIGINT

SET @SoLuongMua = (SELECT SoLuong FROM inserted)

IF @SoLuongMua > (SELECT SLTON FROM VATTU v, inserted i WHERE v.MaVT = i.MaVT)

BEGIN

PRINT N'Không đủ hàng'

ROLLBACK TRAN

END

ELSE

BEGIN

UPDATE VATTU

SET SLTON = SLTON - @SoLuongMua

WHERE MaVT = (SELECT MaVT FROM inserted)

COMMIT TRAN

END

END

--CAU 6

CREATE TRIGGER [CAU 6 TRIGGER] ON VATTU

FOR DELETE

AS

BEGIN

DECLARE @COUNT INT

SET @COUNT = @@ROWCOUNT

IF @COUNT > 1

BEGIN

ROLLBACK TRAN

PRINT('Cannot delete more then one row at the same time!')

END

ELSE

COMMIT TRAN

END

--CAU 7

CREATE TRIGGER [CAU 7 TRIGGER] ON CHITIETHOADON FOR INSERT, UPDATE

AS

BEGIN

DECLARE @SoHD VARCHAR(10), @COUNT INT

SELECT @SoHD = (SELECT SoHD FROM inserted)

SET @COUNT = (SELECT COUNT(c.MaVT) FROM CHITIETHOADON c WHERE c.SoHD = @SoHD)

IF @COUNT >= 6

BEGIN

ROLLBACK TRAN

PRINT('ONLY 5 TYPES CAN BE SOLD IN A BILL')

END

ELSE

BEGIN

PRINT('INSERTED SUCCESSFULLY')

COMMIT TRAN

END

END

GO

DROP TRIGGER [CAU 7 TRIGGER]

--CAU 8

DROP TRIGGER [CAU 8 TRIGGER]

GO

CREATE TRIGGER [CAU 8 TRIGGER] ON CHITIETHOADON FOR UPDATE, INSERT

AS

BEGIN

DECLARE @SoHD VARCHAR(10), @TONG BIGINT

SET @SoHD = (SELECT SoHD FROM inserted)

SET @TONG = (SELECT SUM((SoLuong \* GiaBan) \* IIF(KhuyenMai IS NULL, 1, (100 - CONVERT(FLOAT, KhuyenMai)) / 100)) FROM CHITIETHOADON WHERE @SoHD = SoHD)

IF @TONG > 50000000

BEGIN

PRINT('KHONG THE BAN LON HON 50000000')

ROLLBACK TRAN

END

END

GO

SELECT \* FROM VATTU

INSERT INTO CHITIETHOADON VALUES('HD001', 'VT02', 10, NULL, 22500)

INSERT INTO CHITIETHOADON VALUES('HD001', 'VT03', 5001, NULL, 30000)

INSERT INTO CHITIETHOADON VALUES('HD001', 'VT04', 10, NULL, 50000000)

INSERT INTO CHITIETHOADON VALUES('HD001', 'VT07', 10, NULL, 30000)

DELETE FROM CHITIETHOADON WHERE SoHD = 'HD001' AND (MaVT = 'VT03' OR MaVT = 'VT04' OR MaVT = 'VT02' OR MaVT = 'VT06' OR MaVT = 'VT07')

SELECT \* FROM VATTU

GO

--CAU 9

CREATE TRIGGER [CAU 9 TRIGGER] ON CHITIETHOADON FOR INSERT, UPDATE

AS

BEGIN

DECLARE @GIA FLOAT, @MAVT VARCHAR(10)

SET @GIA = (SELECT CONVERT(FLOAT, GiaBan) FROM inserted)

SET @MAVT = (SELECT MaVT FROM inserted)

IF @GIA < 0.5 \* (SELECT GiaMua FROM VATTU WHERE MaVT = @MAVT)

BEGIN

PRINT('KHONG THANH CONG')

ROLLBACK TRAN

END

END

GO

--10

CREATE TRIGGER [CAU 10 TRIGGER] ON CHITIETHOADON FOR INSERT, UPDATE

AS

BEGIN

DECLARE @MAMH VARCHAR(10)

SET @MAMH = (SELECT MaVT FROM inserted)

IF EXISTS(SELECT \* FROM CHITIETHOADON c JOIN VATTU v ON v.MaVT = c.MaVT AND c.MaVT = @MAMH WHERE TenVT LIKE N'Gạch%')

BEGIN

DECLARE @SoLuong INT

SET @SoLuong = (SELECT SoLuong FROM inserted)

IF (@SoLuong % 100) <> 0

BEGIN

PRINT('Can mua so luong la boi so cua 100')

ROLLBACK TRAN

END

END

END

GO