**View**

create view vw\_cau1

as

select ...

**select \* from vw\_cau1**

**Function**

create function cau2(@tensp nvarchar(30))

returns money

as

begin

declare @tong money

set @tong = (select sum(soluongN \* giaban)

from nhap n

inner join sanpham sp on n.MaSP = sp.MaSP

where TenSP = @tensp)

return @tong

end

**select dbo.cau2(N'Sản phẩm 1')**

**Function trả về**

create function cau2(@tenkhoa nvarchar(30))

returns @bang table

(

masv char(15) primary key,

hoten nvarchar(30),

tuoi int

)

as

begin

insert into @bang

select masv, hoten, year(getdate()) - year(ngaysinh) as 'Tuoi'

from sinhvien sv

inner join lop l on sv.MaLop = l.MaLop

inner join khoa k on l.MaKhoa = k.MaKhoa

where TenKhoa = @tenkhoa

return

end

-- thuc thi

**select \* from cau2(N'cntt')**

**Proc**

create proc cau3

(

@tutuoi int,

@dentuoi int,

@tenlop nvarchar(30)

)

as

begin

select masv, hoten, ngaysinh, tenlop, tenkhoa, year(getdate()) - year(ngaysinh) as 'Tuoi'

from sinhvien sv

inner join lop l on sv.malop = l.MaLop

inner join khoa k on k.MaKhoa = l.MaKhoa

where year(getdate()) - year(ngaysinh) between @tutuoi and @dentuoi and TenLop = @tenlop

end

**exec cau3 1, 19, N'DienTu01'**

**Proc trả về**

alter proc cau3

(

@MaSP CHAR(15),

@TenSP NVARCHAR(30),

@MauSac NVARCHAR(30),

@SoLuong INT,

@GiaBan MONEY,

@kq int output

)

as

begin

if(exists(select \* from sanpham where TenSP = @TenSP))

set @kq = 1

else

set @kq = 0

INSERT INTO SANPHAM VALUES(@maSP, @tenSP, @mauSac, @soLuong, @giaBan)

return @kq

end

-- insert loi

declare @output int

exec cau3 'SP00', N'Sản phẩm 1', N'Đỏ', 10, 20000, @output output

select @output

select \* from SANPHAM

-- insert thanh cong

declare @output int

exec cau3 'SP00', N'Sản phẩm 5', N'Đỏ', 10, 20000, @output output

select @output

select \* from SANPHAM

**Trigger insert**

alter trigger cau4

on xuat

for insert

as

begin

declare @soluongx int = (select soluongx from inserted)

declare @soluong int = (select soluong from sanpham INNER JOIN inserted ON SANPHAM.MaSP = inserted.MaSP)

if(@soluongx > @soluong)

begin

raiserror('Loi', 16, 1)

rollback transaction

end

else

begin

update sanpham

set soluong = soluong - @soluongx

where MaSP = (select MaSP from inserted)

end

end

-- thuc thi loi

insert into xuat values

('X10', 'SP01', 18, '2019-02-01')

-- thuc thi thanh cong

insert into xuat values

('X10', 'SP01', 5, '2019-02-01')

select \* from xuat

select \* from sanpham

**UPDATE**

alter trigger cau4

on cungung

for update

as

begin

declare @masanphammoi char(15) = (select masanpham from inserted)

declare @soluongcungungcu int = (select soluongcungung from deleted)

declare @soluongcungungmoi int = (select soluongcungung from inserted)

declare @soluongco int = (select soluongco from sanpham where masanpham = @masanphammoi)

if(@soluongcungungmoi - @soluongcungungcu > @soluongco)

begin

raiserror('Khong du so luong', 16, 1)

rollback transaction

end

else

begin

update sanpham

set soluongco = (@soluongco - (@soluongcungungmoi - @soluongcungungcu))

where masanpham = @masanphammoi

end

end

-- thuc thi that bai

update cungung set soluongcungung = 250 where masanpham = 'SP2'

-- thuc thi thanh cong

update cungung set soluongcungung = 50 where masanpham = 'SP2'