```
CREATE DATABASE QLSinhVien2 ;
USE QLSinhVien2;
create table KHOA (
       MaKhoa char(4) primary key,
       TenKhoa nvarchar(30)
create table LOP(
       MaLop char(4) primary key,
       TenLop nvarchar(30),
       SiSo int,
       MaKhoa char(4) foreign key references KHOA
create table SINHVIEN(
       MaSV char(4),
       HoTen nvarchar(30),
       NgaySinh datetime,
       GioiTinh char(5),
       MaLop char(4) foreign key references LOP
insert into KHOA values
('KH01', 'Kinh te'),
('KH02', 'Cong nghe thong tin')
insert into LOP values
('LP01',' 59B1 Ke toan', 70, 'KH01'),
('LP02',' 59K CNTT', 47, 'KH02')
insert into SINHVIEN values
('SV01', 'Bui Dinh Chi','11/09/2000', 'Nam', 'LP01'), ('SV02', 'Nguyen Van A','11/07/1999', 'Nam', 'LP01'), ('SV02', 'Tran Thi B','29/03/1999', 'Nu', 'LP02'),
('SV04', 'Ho Thi C','05/12/1999', 'Nu', 'LP02'),
('SV05', 'Phan Van S','10/10/2000', 'Nam', 'LP01')
--- Cau 2:
create procedure cau2 @tenkhoa nvarchar(30)
as
       select MaSV, HoTen, 2020 - YEAR(NgaySinh) as 'Tuoi' from SINHVIEN SV
       JOIN LOP LP on SV.MaLop = LP.MaLop
       JOIN KHOA KH on KH.MaKhoa = LP.MaKhoa
       where TenKhoa = @tenkhoa
exec cau2 @tenkhoa = 'Kinh te'
-- cau 3
create function filter age (@tutuoi int, @dentuoi int)
       returns table
       as
       return
               select MaSV, HoTen, NgaySinh, TenLop, TenKhoa , 2020-YEAR(NgaySinh) as
'Tuoi' from SINHVIEN SV
               join LOP LP on SV.MaLop = LP.MaLop
               join KHOA KH on KH.MaKhoa = LP.MaKhoa
               where 2020-YEAR(NgaySinh) >= @tutuoi and 2020-YEAR(NgaySinh) <= @dentuoi</pre>
```

```
select * from dbo.filter age(19,20)
-- cau 4
create trigger cau4 ON SINHVIEN
for insert as
begin
       declare @siso INT = (select SiSo from LOP L join inserted on inserted.MaLop =
L.MaLop );
       declare @malop char(4) = (select L.MaLop from LOP L join inserted on
inserted.MaLop = L.MaLop );
       update LOP SET SiSo = @siso + 1 where MaLop = @malop
       if(@siso >= 80)
              begin
                     update LOP SET SiSo = @siso - 1 where MaLop = @malop
                     RAISERROR('Lop cua ban da vuot qua 80 nguoi',16,1)
                     ROLLBACK TRAN
              end
       else
              begin
                     print 'THEM THANH CONG'
              end
end
insert into LOP values
('LP03',' 59B1 Luat',90, 'KH01')
select * from LOP
insert into SINHVIEN values
('SV11', 'Nguyen Thi Teo','11/11/2000', 'Nam', 'LP03')
insert into SINHVIEN values
('SV08', 'Nguyen Tran A','11/11/2000', 'Nam', 'LP01')
-- cau 5
declare @hoten nvarchar(30) = '', @tenlop nvarchar(30)
declare @tenkhoa nvarchar(30)
declare cur_sv cursor
keyset
for
       select HoTen, TenLop, TenKhoa as 'Tuoi' from SINHVIEN SV
       JOIN LOP LP on SV.MaLop = LP.MaLop
       JOIN KHOA KH on KH.MaKhoa = LP.MaKhoa
      where SV.MaSV = 'SV15'
open cur_sv
while 0=0
       fetch next from cur_sv into @hoten, @tenlop,@tenkhoa
       if @hoten = ''
              begin
                     print 'Khong ton tai ma sinh vien';
                     break;
              end
       if @@fetch_status<>0 break
```

```
print @hoten+' '+ @tenlop+ ' ' +@tenkhoa
end
close cur_sv
deallocate cur_sv
```