create database QLDiem

use QLDiem

create table HocVien (MaHV char(10) not null,

HoTen varchar(50) not null,

QueQuan varchar(50) not null,

DienThoai varchar(10),

NgaySinh date)

create table MonHoc (MaMon char(10) not null,

TenMon varchar(50) not null,

SoTiet int not null,

SoTinChi int)

create table DiemThi (MaDiem char(10) not null,

MaHV char(10) not null,

MaMon char(10) not null,

NgayThi date not null,

Diem float not null)

alter table HocVien add constraint FK\_MaHV primary key (MaHV)

alter table MonHoc add constraint KF\_MaMon primary key (MaMon)

alter table DiemThi add constraint FK\_MaDiem primary key (MaDiem)

alter table DiemThi add constraint PK\_MaDiem foreign key (MaHV) references HocVien (MaHV)

alter table DiemThi add constraint KH\_MaDiem foreign key (MaMon) references MonHoc (MaMon)

alter table DiemThi add check(NgayTHi <getdate())

ALTER TABLE MonHoc

ADD DEFAULT 1 FOR SoTinChi

insert into HocVien values ('HV01','Nguyen Van A','Da Nang','0999999999','1995-06-12'),

('HV02','Nguyen Van B','Quang Ngai','0999999998','1995-07-11'),

('HV03','Nguyen Van C','Hue','0999999997','1995-07-08'),

('HV04','Nguyen Thi D','Quang Nam','0999999996','1995-01-25'),

\('HV05','Nguyen Van E','Ho Chi Minh','0999999995','1995-04-29')

insert into MonHoc values ('M01','SQL2012',60,2),

('M02','JS',60,3),

('M03','C#',60,3),

('M04','PHP',60,2),

('M05','HTML',60,4)

insert into DiemThi values ('D01','HV01','M01','2019-05-12',7),

('D02','HV03','M04','2019-03-21',6),

('D03','HV04','M05','2019-03-18',8),

('D04','HV02','M03','2019-03-22',5),

('D05','HV05','M02','2019-03-24',9)

/\*cau4\*/

update HocVien

set DienThoai=0123456789

where MaHV='HV01'

/\*cau5\*/

select \*

from DiemThi join HocVien on DiemThi.MaHV=HocVien.MaHV

where HoTen='Nam'

/\*cau6\*/

select top 1 DiemThi.\*,TenMon,SoTinChi,SoTiet

from DiemThi join MonHoc on DiemThi.MaMon=MonHoc.MaMon

where TenMon='SQL2012'

/\*cau7\*/

select diemthi.MaHV,mamon,tam.so as 'So Lan Thi'

from DiemThi join (select MaHV,count(mahv) as so from DiemThi group by MaHV) as tam on diemthi.MaHV=tam.MaHV

order by mahv desc

/\*caau8\*/

create view vw\_ThongTinDiemThi

as select HocVien.MaHV,HoTen,TenMon,Diem, CASE

WHEN Diem>=5 THEN 'Pass'

ELSE 'Fail'

END as exam

from HocVien join DiemThi on HocVien.MaHV=DiemThi.MaHV

join MonHoc on DiemThi.MaMon=MonHoc.MaMon

select \* from vw\_ThongTinDiemThi

/\*câu 9\*/

create proc usp\_DiemThi @ma\_hv char(10)

as

if @ma\_hv is null

select HocVien.\*,MaMon,diem

from HocVien join DiemThi on HocVien.MaHV=DiemThi.MaHV

else

select HocVien.\*,MaMon,diem

from HocVien join DiemThi on HocVien.MaHV=DiemThi.MaHV

where @ma\_hv=diemthi.MaHV

drop proc usp\_DiemThi

exec usp\_DiemThi null

/\*câu 10\*/

create trigger Check\_SoTC\_MonHoc on MonHoc

for insert

as

if (select SoTinChi from inserted)=1 and (select SoTiet from inserted)>=15

begin

print N'Chủ để không hợp lệ'

ROLLBACK TRANSACTION

end

insert into MonHoc values ('M07','SQL2012',60,1)