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create database TH7_1;
use TH7_1;

create table tblKhoa (
    MaKH char(4) primary key,
    TenKH nvarchar(30),
    DienThoai nvarchar(12)
)
create table tblNganhDaoTao (
    Manganh char(4) primary key,
    TenNganh nvarchar(50),
)
create table tblSinhVien (
    MaSV char(4) primary key,
    TenSV nvarchar(50),
    GioTinh int ,
    MaKH char(4) foreign key references tblKhoa,
    Manganh char(4) foreign key references tblNganhDaoTao
)

insert into tblKhoa values
('KH01', 'Vien KTCN', '0123456789'),
('KH02', 'Vien SPTN', '0123456666'),
('KH03', 'Vien SPXH', '0123457777'),
('KH04', 'Khoa giao duc', '0123458888'),
('KH05', 'Khoa kinh te', '0123459999');

insert into tblNganhDaoTao values
('AN01', 'Khoa hoc may tinh'),
('CNTT', 'Cong nghe thong tin'),
('KT01', 'Ke Toan'),
('SPTH', 'Su pham toan hoc'),
('SPSH', 'Su pham sinh hoc')

insert into tblSinhVien values
('1801', 'Phan Thi Nhat', 0, 'KH01', 'KT01' ),
('1802', 'Tran Thi Thin', 1, 'KH03', 'AN01' ),
('1803', 'Nguyen Van Nam', 0, 'KH05', 'CNTT' ),
('1804', 'Hoa Van Cuong', 1, 'KH02', 'SPSH' ),
('1805', 'Nguyen Duc T', 0, 'KH04', 'SPTH' )

-- cau 2
create view cau2 as
select MaSV, TenSV, TenKH, TenNganh
from tblSinhVien sv join tblKhoa kh on sv.MaKH = kh.MaKH
join tblNganhDaoTao dt on dt.Manganh = sv.Manganh
-- cau 3
if exists
(
    select MaSV
    from tblSinhVien
    where MaSV = '1801'
)
print 'Ton tai sinh vien da tim kiem '
else
print 'Khong toan tai sinh vien tim kiem'
go
;

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-- cau 4
declare @s_maSv char (4),@s_tensv nvarchar(50), @s_gioitinh int , @s_tennganh
nvarchar(50)
declare cur_cau4 cursor
keyset
for
    select MaSV, TenSV, GioTinh, TenNganh
    from tblSinhVien sv
    join tblNganhDaoTao dt on dt.Manganh = sv.Manganh
open cur_cau4
while 0=0
begin
    fetch next from cur_cau4 into @s_maSv ,@s_tensv, @s_gioitinh , @s_tennganh
    if @@FETCH_STATUS <> 0 break
    print @s_maSv+ ' ' + @s_tensv + ' ' + convert(char(10),@s_gioitinh)+ '
'+@s_tennganh
end
close cur_cau4
deallocate cur_cau4

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