create database ViDu

go

use Vidu

go

create table NhanVien(

MaNV nvarchar(50) not null,

TenNV nvarchar(50),

HoNV nvarchar(50),

NgaySinh datetime,

DiaChi nvarchar(50),

Phai nvarchar(50),

Luong nvarchar(50),

MaNQL nvarchar(50) not null,

Phong nvarchar(50),

primary key (MaNV),

foreign key (MaNQL) references NhanVien(MaNV)

)

create table PhongBan(

MaPhong nvarchar(50) not null,

TenPhong nvarchar(50),

TruongPhong nvarchar(50) not null,

NGNhanChuc nvarchar(50),

primary key (MaPhong),

foreign key (TruongPhong) references NhanVien(MaNV)

)

create table DiaDiem\_Phong(

MaPhong nvarchar(50) not null,

DiaDiem nvarchar(50) not null,

primary key (MaPhong,DiaDiem),

foreign key (MaPhong) references PhongBan(MaPhong)

)

create table ThanNhan(

Ma\_NVien nvarchar(50) not null,

TenTN nvarchar(50),

Phai nvarchar(50),

NgaySinh datetime,

QuanHe nvarchar(50),

primary key (Ma\_NVien,TenTN),

foreign key (Ma\_NVien) references NhanVien(MaNV)

)

create table DeAn(

TenDA nvarchar(50),

MaDA nvarchar(50) not null,

DiaDiem\_DA nvarchar(50) not null,

Phong nvarchar(50) not null,

primary key (MaDA),

foreign key (Phong) references PhongBan(MaPhong)

)

create table PhanCong(

Ma\_NVien nvarchar(50) not null,

SoDA nvarchar(50) not null,

ThoiGian datetime,

primary key (Ma\_NVien,SoDA),

foreign key (Ma\_NVien) references NhanVien(MaNV),

foreign key (SoDA) references DeAn(MaDA)

)

insert into NhanVien

values ('NV001',N'A',N'Nguyễn','2000/01/02',N'Liên Chiểu',N'Nam',N'10 triệu',N'NV001',N'Phòng 01');

insert into NhanVien

values ('NV002',N'B',N'Nguyễn','2000/02/03',N'Thanh Khê',N'Nam',N'8 triệu',N'NV002',N'Phòng 02');

insert into NhanVien

values ('NV003',N'C',N'Trần','2000/03/04',N'Hải Châu',N'Nữ',N'7 triệu',N'NV003',N'Phòng 03');

insert into NhanVien

values ('NV004',N'D',N'Lê','2000/04/05',N'Liên Chiểu',N'Nữ',N'5 triệu',N'NV004',N'Phòng 04');

insert into NhanVien

values ('NV005',N'M',N'Lê','2000/06/07',N'Liên Chiểu',N'Nữ',N'5 triệu',N'NV005',N'Phòng 05');

select \* from NhanVien

insert into PhongBan

values ('P001',N'Kế Toán',N'NV001',N'A');

insert into PhongBan

values ('P002',N'Tài Chính',N'NV002',N'B');

insert into PhongBan

values ('P003',N'Nhân Sự',N'NV003',N'C');

insert into PhongBan

values ('P004',N'Bảo Vệ',N'NV004',N'D');

select \* from PhongBan

insert into DiaDiem\_Phong

values ('P001',N'X');

insert into DiaDiem\_Phong

values ('P002',N'Y');

insert into DiaDiem\_Phong

values ('P003',N'Z');

insert into DiaDiem\_Phong

values ('P004',N'Q');

select \* from DiaDiem\_Phong

insert into ThanNhan

values ('NV001',N'A1',N'Nam','1969/01/03',N'Ba');

insert into ThanNhan

values ('NV002',N'A2',N'Nam','1969/02/04',N'Ba');

insert into ThanNhan

values ('NV003',N'A3',N'Nữ','1969/04/06',N'Mẹ');

insert into ThanNhan

values ('NV004',N'A4',N'Nam','1969/07/09',N'Ba');

select \* from ThanNhan

insert into DeAn

values (N'Toán',N'DA001',N'X',N'P001');

insert into DeAn

values (N'Lý',N'DA002',N'Y',N'P002');

insert into DeAn

values (N'Hóa',N'DA003',N'Z',N'P003');

insert into DeAn

values (N'Anh',N'DA004',N'Q',N'P004');

select \* from DeAn

insert into PhanCong

values ('NV001',N'DA001','2020/01/02');

insert into PhanCong

values ('NV002',N'DA002','2020/03/04');

insert into PhanCong

values ('NV003',N'DA003','2020/05/06');

insert into PhanCong

values ('NV004',N'DA004','2020/07/08');

select \* from PhanCong

-- câu 4:Cho biết mã nhân viên có tham gia đề án hoặc có thân nhân

SELECT ThanNhan.Ma\_NVien from ThanNhan

JOIN PhanCong ON ThanNhan.Ma\_NVien = PhanCong.Ma\_NVien

JOIN DeAn ON PhanCong.SoDA = DeAn.MaDA

UNION

SELECT ThanNhan.Ma\_NVien from ThanNhan

JOIN PhanCong ON ThanNhan.Ma\_NVien = PhanCong.Ma\_NVien

JOIN DeAn ON PhanCong.SoDA = DeAn.MaDA

--câu 5:Cho biết mã nhân viên có người thân và có tham gia đề án

SELECT Ma\_NVien FROM PhanCong

WHERE Ma\_NVien IN ( SELECT Ma\_NVien FROM ThanNhan)

--câu 6:Cho biết mã nhân viên không có thân nhân nào

SELECT NhanVien.MaNV FROM NhanVien

EXCEPT

SELECT NhanVien.MaNV FROM NhanVien

FULL OUTER JOIN ThanNhan ON ThanNhan.MA\_NVIEN = NhanVien.MaNV

WHERE TenTN IS NOT NULL