use master

go

if exists( select \* from sysdatabases where name = 'TranBaoHoang')

drop database TranBaoHoang

create database TranBaoHoang

use TranBaoHoang

create table CHUYENBAY

( MaCB char (5),

GaDi char (3),

GaDen char (3),

Dodai int,

Giodi time,

Gioden time,

ChiPhi int

constraint pk\_CHUYENBAY primary key (MaCB))

create table MAYBAY

( MaMB char (3)

constraint pk\_MAYBAY primary key (MaMB),

Loai char (25),

TamBay int)

create table NHANVIEN

( MaNV char (9) constraint pk\_NHANVIEN primary key (MaNV),

Ten char (35),

Luong int)

create table CHUNGNHAN

( MaNV char (9),

MaMB char (3)

constraint pk\_CHUNGNHAN primary key (MaNV, MaMB))

insert into CHUYENBAY (MaCB, GaDi, GaDen, DoDai, GioDi, GioDen, ChiPhi)

values ('VN431', 'SGN', 'CAH',3693, '05:55','06:55',236),

('VN320', 'SGN','DAD',2798,'06:00','07:10',221),

('VN464', 'SGN','DLI',2002, '07:20','08:05', 225),

('VN216', 'SGN','DIN',4170, '10:30','14:20',464),

('VN280','SGN', 'HPH', 11979,'06:00','08:00',1279),

('VN254','SGN','HUI', 8765, '18:40', '20:00',781),

('VN338','SGN', 'BMV' ,4081, '15:25','16:25',375),

('VN440','SGN','BMV', 4081,'18:30','19:30',426),

('VN651', 'DAD','SGN', 2798, '19:30','08:00',221),

('VN276', 'DAD', 'CXR',1283,'09:00','12:00',203),

('VN374', 'HAN', 'VII',510,'11:40','13:25',120),

('VN375','VII', 'CXR', 752,'14:15','16:00',181),

('VN269','HAN','CXR', 1262,'14:10','15:50',202),

('VN315','HAN','DAD',134,'11:45','13:00',112),

('VN317','HAN','UIH',827,'15:00','16:15',190),

('VN741','HAN','PXU',395, '06:30','08:30',120),

('VN474', 'PXU','PQC',1586,'08:40','11:20',102)

insert into MAYBAY (MaMB, Loai, TamBay)

values ('747','Boeing 747 - 400',13488),

('737','Boeing 737 - 800',5413),

('340', 'Airbus A340 - 300',11392),

('757', 'Boeing 757 - 300', 6416),

('777', 'Boeing 777 - 300' , 10306),

('767', ' Boeing 767 - 400ER',10360),

('320', 'Airbus A320', 4168),

('319', 'Airbus A319', 2888),

('727', 'Boeing 727',2406),

('154','Tupolev 154',6565)

insert into NHANVIEN (MaNV, Ten, Luong)

values ('242518965','Tran Van Son',120433),

('141582651','Doan Thi Mai',178345),

('011564812','Ton Van Quy',153972),

('567354612','Quan Cam Ly',256481),

('552455318','La Que', 101745),

('550156548','Nguyen Thi Cam',205187),

('390487451','Le Van Luat',212156),

('274878974','Mai Quoc Minh',99890),

('254099823','Nguyen Thi Quynh',24450),

('356187925','Nguyen Vinh Bao',44740),

('355548784', 'Tran Thi Hoai An', 212156),

('310454876', 'Ta Van Do' , 212156),

('489456522', 'Nguyen Thi Quy Linh', 127984),

('489221823', 'Bui Quoc Chinh',23980),

('548977562','Le Van Quy', 84476),

('310454877', 'Tran Van Hao', 33546),

('142519864', 'Nguyen Thi Xuan Dao',227489),

('287321212', 'Duong Van Minh',48090),

('552455348', 'Bui Thi Dung', 92013),

('248965255', ' Tran Thi Ba', 43723),

('159542516', 'Le Van Ky', 48250),

('348121549', 'Nguyen Van Thanh', 32899),

('574489457', 'Bui Van Lap', 20)

insert into CHUNGNHAN (MaNV,MaMB)

values ('567354612','747'),

('567354612','737'),

('567354612', '757'),

('567354612', '777'),

('567354612', '767'),

('567354612', '727'),

('567354612', '340'),

('552455318', '737'),

('552455318', '319'),

('552455318', '747'),

('552455318', '767'),

('390487451', '340'),

('390487451', '320'),

('390487451', '319'),

('274878974', '757'),

('274878974', '767'),

('355548984', '154'),

('310454876','154'),

('142519864', '747'),

('142519864', '757'),

('142519864', '777'),

('142519864', '767'),

('142519864', '737'),

('142519864', '340'),

('142519864', '320'),

('269734834', '747'),

('269734834', '737'),

('269734834', '340'),

('269734834', '757'),

('269734834', '777'),

('269734834', '767'),

('269734834', '320'),

('269734834', '319'),

('269734834', '727'),

('269734834', '154'),

('242518965', '737'),

('242518965', '757'),

('141582651', '737'),

('141582651', '757'),

('141582651', '767'),

('011564812', '737'),

('011564812', '757'),

('574489457', '154')

--cau1--

select \* from CHUYENBAY

where GaDi = 'SGN' and GaDen = 'BMV'

--cau2--

select COUNT (MaCB) as sochuyenbai\_tuSaiGon

from CHUYENBAY

where GaDi = 'SGN'

--cau3--

select Sum (Luong) as tongsoluong\_phaitra

from NHANVIEN

--cau4--

select NHANVIEN.MaNV, Ten, Luong

from CHUNGNHAN,NHANVIEN

where NHANVIEN.MaNV = CHUNGNHAN.MaNV and MaMB = '747'

--cau5--

select \*

from CHUYENBAY

where Dodai <= (select TamBay from MAYBAY where Loai= 'Airbus A320')

--cau6--

select NHANVIEN.MaNV, Ten, Luong

from CHUNGNHAN,NHANVIEN

where NHANVIEN.MaNV = CHUNGNHAN.MaNV and MaMB = any (select MaMB from MAYBAY where Loai like '%Boeing%') and MaMB = any (select MaMB from MAYBAY where Loai like '%Airbus%')

group by NHANVIEN.MaNV, Ten, Luong

--cau7--

select \*

from MAYBAY

where TamBay >= (select Dodai from CHUYENBAY where MaCB = 'VN280')

--cau8--

select MAYBAY.MaMB,Loai, COUNT (distinct MaNV) as luongphicong

from MAYBAY, CHUNGNHAN

where MAYBAY.MaMB = CHUNGNHAN.MaMB

group by MAYBAY.MaMB,Loai

--cau9--

--cau10--

select GaDi, count (MaCB) as luongchuyenbay

from CHUYENBAY

where Giodi > '12:00'

group by GaDi

--cau11--

select Ten, count (distinct MaMB) as luongmaybaylai

from NHANVIEN,CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV

group by Ten

having count (distinct MaMB) >=3

--cau12--

select Ten, count (distinct Chungnhan.MaMB) as luongmaybaylai, Max(TamBay) as maxtambay

from NHANVIEN,CHUNGNHAN, MAYBAY

where NHANVIEN.MaNV=CHUNGNHAN.MaNV and MAYBAY.MaMB = CHUNGNHAN.MaMB

group by Ten

having count (distinct chungnhan.MaMB) >=3

--cau13--

select Ten, count (distinct MaMB) as luongmaybaylai

from NHANVIEN,CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV

group by Ten

having count (distinct MaMB) >= all (select count (distinct MaMB) a

from NHANVIEN,CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV

group by Ten)

--cau14--

select Ten, count (distinct MaMB) as luongmaybaylai

from NHANVIEN,CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV

group by Ten

having count (distinct MaMB) <= all (select count (distinct MaMB) a

from NHANVIEN,CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV

group by Ten)

--cau15--

select Ten

from NHANVIEN

where MaNV not in (select MaNV from CHUNGNHAN)

--cau16--

select top 1 Luong,Ten

from NHANVIEN

where MaNV in (select MaNV from CHUNGNHAN)

order by Luong DESC

--cau17--

select top 2 Luong,Ten

from NHANVIEN

where MaNV not in (select MaNV from CHUNGNHAN)

order by Luong DESC

--cau18--

select SUM(luong) as tongphicong

from NHANVIEN

where MaNV in (select MaNV from CHUNGNHAN)

--cau19--

select \*

from CHUYENBAY

where Dodai <= (select min (TamBay) from MAYBAY where Loai like '%Boeing%')

--cau20--

select \*

from MAYBAY

where TamBay >= (select Dodai from CHUYENBAY where GaDi like 'SGN' and GaDen like 'HUI')

--cau21--

select \*

from CHUYENBAY

where Dodai <= any (select distinct tambay from maybay,NHANVIEN,CHUNGNHAN where MAYBAY.MaMB=CHUNGNHAN.MaMB and NHANVIEN.MaNV=CHUNGNHAN.MaNV and Luong >100000 and NHANVIEN.MaNV in (select MaNV from CHUNGNHAN))

--cau22--

select \*

from NHANVIEN

where MaNV in (select MaNV from CHUNGNHAN) and Luong < (select min(chiphi) from CHUYENBAY where GaDi like 'SGN' and GaDen like 'BMV')

--cau23--

select top 2 Luong,Ten

from NHANVIEN

--cau24--

select \*

from NHANVIEN

where Luong >= (select avg(luong) from NHANVIEN) and MaNV not in (select MaNV from CHUNGNHAN)

--cau25--

select NHANVIEN.MaNV,Ten,Luong

from NHANVIEN,MAYBAY,CHUNGNHAN

where NHANVIEN.MaNV = CHUNGNHAN.MaNV and MAYBAY.MaMB =CHUNGNHAN.MaMB and NHANVIEN.MaNV in (select MaNV from CHUNGNHAN)

and TamBay > 4800 and CHUNGNHAN.MaMB not in (select MaMB from MAYBAY where Loai like '%Boeing%')

--cau26--

select Ten, count (distinct Chungnhan.MaMB) as luongmaybaylai

from NHANVIEN,CHUNGNHAN, MAYBAY

where NHANVIEN.MaNV=CHUNGNHAN.MaNV and MAYBAY.MaMB = CHUNGNHAN.MaMB and TamBay >3200

group by Ten

having count (distinct chungnhan.MaMB) >=3

--cau27--

select Ten,NHANVIEN.MaNV, count (MaMB) as luongmaybay

from NHANVIEN, CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV and NHANVIEN.MaNV in (select MaNV from CHUNGNHAN)

group by Ten,NHANVIEN.MaNV

--cau28--

select Ten,NHANVIEN.MaNV, count (distinct MaMB) as luongmaybayboeing

from NHANVIEN, CHUNGNHAN

where NHANVIEN.MaNV=CHUNGNHAN.MaNV and NHANVIEN.MaNV in (select MaNV from CHUNGNHAN) and MaMB in (select MaMB from MAYBAY where Loai like '%Boeing%')

group by Ten,NHANVIEN.MaNV

--cau29--

select MAYBAY.MaMB,Loai, COUNT (distinct MaNV) as songuoilai

from MAYBAY,CHUNGNHAN

Where MAYBAY.MaMB= CHUNGNHAN.MaMB

group by MAYBAY.MaMB,Loai

--cau30--

select Loai,Count (Dodai) as sochuyenbaykhongthuchien

from MAYBAY,CHUYENBAY

where Dodai > TamBay

group by Loai

--cau31--

select Loai,AVG (luong) as luongtrungbinh

from MAYBAY,NHANVIEN,CHUNGNHAN

where MAYBAY.MaMB = CHUNGNHAN.MaMB and NHANVIEN.MaNV = CHUNGNHAN.MaNV and TamBay > 3200

group by Loai

--cau32--

select Loai,(select count (distinct MaNV)

from CHUNGNHAN ) - Count ( distinct MaNV) as soluongkhonglai

from CHUNGNHAN,MAYBAY

where CHUNGNHAN.MaMB=MAYBAY.MaMB

group by Loai

--cau33--

select NHANVIEN.MaNV,Ten,count(Dodai)as sochuyenbay

from NHANVIEN,CHUNGNHAN,CHUYENBAY,MAYBAY

where NHANVIEN.MaNV = CHUNGNHAN.MaNV and Dodai <= TamBay and

MAYBAY.MaMB =CHUNGNHAN.MaMB and GaDen = 'SGN'

group by NHANVIEN.MaNV,Ten

--cau34--

select NHANVIEN.MaNV,Ten,count(Dodai)as sochuyenbay

from NHANVIEN,CHUNGNHAN,CHUYENBAY,MAYBAY

where NHANVIEN.MaNV = CHUNGNHAN.MaNV and Dodai <= TamBay and

MAYBAY.MaMB =CHUNGNHAN.MaMB and GaDen = 'SGN'

group by NHANVIEN.MaNV,Ten

--cau35--

select MaCB, COUNT (Tambay) as somaybay

from CHUYENBAY,MAYBAY

where TamBay >= Dodai

group by MaCB

--cau36--

select MaCB, COUNT (Tambay) as somaybay

from CHUYENBAY,MAYBAY

where TamBay < Dodai

group by MaCB

--cau37--

select distinct Loai

from MAYBAY,CHUNGNHAN

where CHUNGNHAN.MaMB = MAYBAY.MaMB and MaNV in (select MaNV from NHANVIEN where Luong >200000)

--cau38--

select NHANVIEN.MaNV, Ten, Luong

from CHUNGNHAN,NHANVIEN

where MaMB = all (select MaMB from MAYBAY) and NHANVIEN.MaNV = CHUNGNHAN.MaNV

--cau39--

select NHANVIEN.MaNV, Ten, Luong

from CHUNGNHAN,NHANVIEN

where MaMB = all (select MaMB from MAYBAY where Loai like '%Boeing%') and NHANVIEN.MaNV = CHUNGNHAN.MaNV

--cau40--

select distinct MaCB

from CHUYENBAY,CHUNGNHAN

where MaNV in (select MaNV from NHANVIEN where Luong >100000) and MaNV in (select MaNV from NHANVIEN)