-- Cau 1

select \*

from CHUYENBAY

where GaDen = 'DAD';

-- Cau 2

select Loai

from MAYBAY

where TamBay > 10000;

-- Cau 3

select \*

from NHANVIEN

where Luong < 10000;

-- Cau 4

select \*

from CHUYENBAY

where DoDai > 8000 and DoDai < 10000;

-- Cau 5

select \*

from CHUYENBAY

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

-- Cau 6

select count(\*)

from CHUYENBAY

where GaDi = 'SGN';

-- Cau 7

select count(\*)

from MAYBAY

where Loai like '%Boeing%';

-- Cau 8

select sum(Luong) as TongLuong

from NHANVIEN;

-- Cau 9

select distinct CN.MaNV

from CHUNGNHAN as CN, MAYBAY as MB

where CN.MaMB = MB.MaMB and MB.Loai like '%Boeing%';

select distinct CN.MaNV

from CHUNGNHAN as CN

where CN.MaMB in (select MaMB

from MAYBAY

where Loai like '%Boeing%');

-- Cau 10

select NV.\*

from NHANVIEN as NV, CHUNGNHAN as CN

where NV.MaNV = CN.MaNV and CN.MaMB = 747;

-- Cau 11

select distinct CN.MaMB

from CHUNGNHAN as CN, NHANVIEN as NV

where CN.MaNV = NV.MaNV and NV.Ten like 'Nguyen%';

-- Cau 12

select distinct CN.MaNV

from CHUNGNHAN as CN, MAYBAY as MB

where CN.MaMB = MB.MaMB and (MB.Loai like '%Boeing%' or MB.Loai like '%Airbus%');

select distinct CN.MaNV

from CHUNGNHAN as CN

where CN.MaMB in (select MaMB

from MAYBAY

where Loai like '%Boeing%' or Loai like '%Airbus%');

-- Cau 13

select MB.Loai

from MAYBAY as MB, CHUYENBAY as CB

where MB.TamBay > CB.DoDai and CB.MaCB = 'VN280';

-- Cau 14

select CB.\*

from CHUYENBAY as CB, MAYBAY as MB

where CB.DoDai < MB.TamBay and MB.Loai = 'Airbus A320';

-- Cau 15

select distinct NV.Ten

from CHUNGNHAN as CN, MAYBAY as MB, NHANVIEN as NV

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and MB.Loai like '%Boeing%';

-- Cau 16

select MB.MaMB, MB.Loai, count(CN.MaNV)

from MAYBAY as MB, CHUNGNHAN as CN

where MB.MaMB = CN.MaMB

group by MB.MaMB, MB.Loai;

-- Cau 17

select CB1.GaDi, CB1.GaDen, CB1. DoDai

from CHUYENBAY as CB1, CHUYENBAY as CB2

where CB1.GaDen = CB2.GaDi and CB1.GaDi = CB2.GaDen and CB1.GaDi < CB1.GaDen;

-- Cau 18

select GaDi, count(MaCB) as SoCB

from CHUYENBAY

group by GaDi;

-- Cau 19

select GaDi, sum(ChiPhi) as TongCP

from CHUYENBAY

group by GaDi;

-- Cau 20

select GaDi, count(MaCB) as SoCB

from CHUYENBAY

where GioDi < '12:00:00'

group by GaDi;

-- Cau 21

select CN.MaNV

from CHUNGNHAN as CN

group by CN.MaNV

having count(CN.MaMB) = 3;

-- Cau 22

select CN.MaNV, max(MB.TamBay) as TamBayLonNhat

from CHUNGNHAN as CN, MAYBAY as MB

where CN.MaMB = MB.MaMB

group by CN.MaNV

having count(CN.MaMB) > 3;

-- Cau 23

select MaNV, count(MaMB) as SoMB

from CHUNGNHAN

group by MaNV;

-- Cau 24

select CN.MaNV

from CHUNGNHAN as CN

group by CN.MaNV

having count(CN.MaMB) >= all (select count(MaMB)

from CHUNGNHAN

group by MaNV);

-- Cau 25

select CN.MaNV

from CHUNGNHAN as CN

group by CN.MaNV

having count(CN.MaMB) <= all (select count(MaMB)

from CHUNGNHAN

group by MaNV);

-- Cau 26

select \*

from NHANVIEN

where MaNV not in (select MaNV

from CHUNGNHAN);

-- Cau 27

select NV.MaNV

from NHANVIEN as NV

where NV.Luong = (select max(Luong)

from NHANVIEN);

select NV.MaNV

from NHANVIEN as NV

where NV.Luong >= all (select Luong

from NHANVIEN);

-- Cau 28

select sum(Luong)

from NHANVIEN

where MaNV in (select MaNV

from CHUNGNHAN);

-- Cau 29

select \*

from CHUYENBAY as CB

where CB.DoDai < all (select TamBay

from MAYBAY

where Loai like '%Boeing%');

select \*

from CHUYENBAY as CB

where CB.DoDai < (select min(TamBay)

from MAYBAY

where Loai like '%Boeing%');

-- Cau 30

select MB.MaMB

from MAYBAY as MB

where MB.TamBay > all (select CB.DoDai

from CHUYENBAY as CB

where CB.GaDi = 'SGN' and CB.GaDen = 'HUI');

select MB.MaMB

from MAYBAY as MB, CHUYENBAY as CB

where CB.GaDi = 'SGN' and CB.GaDen = 'HUI' and CB.DoDai < MB.TamBay;

-- Cau 31

select \*

from CHUYENBAY as CB

where CB.DoDai < any (select MB.TamBay

from MAYBAY as MB, NHANVIEN as NV, CHUNGNHAN as CN

where (MB.MaMB = CN.MaMB and NV.MaNV = CN.MaNV) and NV.Luong > 100000);

select distinct CB.\*

from CHUYENBAY as CB, MAYBAY as MB, NHANVIEN as NV, CHUNGNHAN as CN

where (MB.MaMB = CN.MaMB and NV.MaNV = CN.ManV) and CB.DoDai < MB.TamBay and NV.Luong > 100000;

-- Cau 32

select NV.Ten

from NHANVIEN as NV, CHUNGNHAN as CN

where (NV.MaNV = CN.MaNV) and NV.Luong < all (select ChiPhi

from CHUYENBAY

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

select NV.Ten

from NHANVIEN as NV, CHUNGNHAN as CN

where (NV.MaNV = CN.MaNV) and NV.Luong < (select min(ChiPhi)

from CHUYENBAY

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

-- Cau 33

select MaNV

from NHANVIEN

where MaNV in (select MaNV

from CHUNGNHAN)

and Luong >= all (select Luong

from NHANVIEN

where MaNV in (select MaNV

from CHUNGNHAN));

select PC.MaNV

from NHANVIEN as PC

where PC.MaNV in (select MaNV

from CHUNGNHAN)

and not exists (select \*

from CHUNGNHAN as CN, NHANVIEN as NV

where CN.MaNV = NV.MaNV and NV.Luong > PC.Luong);

-- Cau 34

select NV.MaNV

from NHANVIEN as NV

where NV.Luong = (select max(Luong)

from NHANVIEN

where Luong < (select max(Luong)

from NHANVIEN));

-- Cau 35

select NV.MaNV

from NHANVIEN as NV

where NV.Luong >= (select max(Luong)

from NHANVIEN

where Luong < (select max(Luong)

from NHANVIEN));

select NV.MaNV

from NHANVIEN as NV

where NV.Luong >= all (select Luong

from NHANVIEN

where Luong < any (select Luong

from NHANVIEN));

-- Cau 36

select Ten, Luong

from NHANVIEN as NV

where NV.MaNV not in (select MaNV

from CHUNGNHAN)

and Luong > (select avg(Luong)

from NHANVIEN

where MaNV in (select distinct MaNV

from CHUNGNHAN));

-- Cau 37

select NV.Ten

from NHANVIEN as NV, MAYBAY as MB, CHUNGNHAN as CN

where (NV.MaNV = CN.MaNV and MB.MaMB = CN.MaMB) and MB.TamBay > 4800

and NV.MaNV not in (select CN1.MaNV

from MAYBAY as MB1, CHUNGNHAN as CN1

where (CN1.MaMB = MB1.MaMB) and MB1.Loai like '%Boeing%');

select NV.Ten

from NHANVIEN as NV

where exists (select \*

from MAYBAY as MB, CHUNGNHAN as CN

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and MB.TamBay > 4800)

and not exists (select \*

from MAYBAY as MB, CHUNGNHAN as CN

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and MB.Loai like '%Boeing%');

select NV.Ten

from NHANVIEN as NV, MAYBAY as MB, CHUNGNHAN as CN

where (NV.MaNV = CN.MaNV and MB.MaMB = CN.MaMB) and MB.TamBay > 4800

and not exists (select \*

from MAYBAY as MB, CHUNGNHAN as CN

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and MB.Loai like '%Boeing%');

-- Cau 38

select Ten

from NHANVIEN

where MaNV in (select CN.MaNV

from CHUNGNHAN as CN, MAYBAY as MB

where (CN.MaMB = MB.MaMB) and MB.TamBay > 3200

group by CN.MaNV

having count(CN.MaMB) > 2);

-- Cau 39

select NV.MaNV, NV.Ten, count(CN.MaMB) as SoMB

from (NHANVIEN as NV left join CHUNGNHAN as CN on NV.MaNV = CN.MaNV)

group by NV.MaNV, NV.Ten;

-- Cau 40

select NV.MaNV, NV.Ten, count(CN.MaMB) as SoMB

from ((MAYBAY as MB join CHUNGNHAN as CN on MB.MaMB = CN.MaMB and MB.Loai like '%Boeing%') right join NHANVIEN as NV on CN.MaNV = NV.MaNV)

group by NV.MaNV, NV.Ten;

-- Cau 41

select MB.Loai, count(CN.MaNV) as SoPC

from (MAYBAY as MB left join CHUNGNHAN as CN on MB.MaMB = CN.MaMB)

group by MB.MaMB, MB.Loai;

-- Cau 42

select MB.Loai, count(CB.MaCB) as SoCB

from (MAYBAY as MB left join CHUYENBAY as CB on MB.TamBay <= CB.DoDai)

group by MB.MaMB, MB.Loai;

-- Cau 43

select MB.Loai, count(CN.MaNV) as SoPC

from ((NHANVIEN as NV join CHUNGNHAN as CN on NV.MaNV = CN.MaNV and NV.Luong > 100000) right join MAYBAY as MB on CN.MaMB = MB.MaMB)

group by MB.MaMB, MB.Loai;

-- Cau 44

select MB.Loai, avg(NV.Luong)

from ((CHUNGNHAN as CN join NHANVIEN as NV on CN.MaNV = NV.MaNV) right join MAYBAY as MB on CN.MaMB = MB.MaMB)

where MB.TamBay > 3200

group by MB.MaMB, MB.Loai;

-- Cau 45

select MB.Loai, count(NV.MaNV) as SoNV

from (MAYBAY as MB left join NHANVIEN as NV on not exists (select \*

from CHUNGNHAN as CN

where CN.MaMB = MB.MaMB and CN.MaNV = NV.MaNV))

group by MB.MaMB, MB.Loai;

-- Cau 46

select MB.Loai, count(NV.MaNV) as SoPC

from (MAYBAY as MB left join NHANVIEN as NV on NV.MaNV in (select MaNV

from CHUNGNHAN)

and not exists (select \* from CHUNGNHAN as CN

where CN.MaMB = MB.MaMB and CN.MaNV = NV.MaNV))

group by MB.MaMB, MB.Loai;

-- Cau 47

select NV.MaNV, NV.Ten, count(CB.MaCB) as SoCB

from (NHANVIEN as NV left join CHUYENBAY as CB on CB.GaDi = 'SGN' and CB.DoDai < any (select MB.TamBay

from MAYBAY as MB, CHUNGNHAN as CN

where MB.MaMB = CN.MaMB and CN.MaNV = NV.MaNV))

group by NV.MaNV, NV.Ten;

-- Cau 48

select NV.MaNV, NV.Ten, count(CB.MaCB) as SoCB

from (NHANVIEN as NV left join CHUYENBAY as CB on CB.GaDi = 'SGN' and CB.DoDai >= all (select MB.TamBay

from MAYBAY as MB, CHUNGNHAN as CN

where MB.MaMB = CN.MaMB and CN.MaNV = NV.MaNV))

group by NV.MaNV, NV.Ten;

-- Cau 49

select NV.MaNV, NV.Ten, count(CB.MaCB) as SoCB

from (NHANVIEN as NV left join CHUYENBAY as CB on CB.GaDi = 'SGN' and CB.DoDai < any (select MB.TamBay

from MAYBAY as MB, CHUNGNHAN as CN

where MB.MaMB = CN.MaMB and CN.MaNV = NV.MaNV))

where NV.MaNV in (select distinct MaNV

from CHUNGNHAN)

group by NV.MaNV, NV.Ten;

-- Cau 50

select NV.MaNV, NV.Ten, count(CB.MaCB) as SoCB

from (NHANVIEN as NV left join CHUYENBAY as CB on CB.GaDi = 'SGN' and CB.DoDai >= all (select MB.TamBay

from MAYBAY as MB, CHUNGNHAN as CN

where MB.MaMB = CN.MaMB and CN.MaNV = NV.MaNV))

where NV.MaNV in (select distinct MaNV

from CHUNGNHAN)

group by NV.MaNV, NV.Ten;

-- Cau 51

select CB.MaCB, count(MB.MaMB) as SoMB

from (CHUYENBAY as CB left join MAYBAY as MB on CB.DoDai > MB.TamBay)

group by CB.MaCB;

-- Cau 52

select CB.MaCB, count(MB.MaMB) as SoMB

from (CHUYENBAY as CB left join MAYBAY as MB on CB.DoDai <= MB.TamBay)

group by CB.MaCB;

-- Cau 53

select CB.MaCB, count(NV.MaNV) as SoNV

from (CHUYENBAY as CB left join NHANVIEN as NV on not exists (select \*

from MAYBAY as MB, CHUNGNHAN as CN

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and CB.DoDai < MB.TamBay))

group by CB.MaCB;

-- Cau 54

select CB.MaCB, count(NV.MaNV)

from (CHUYENBAY as CB left join NHANVIEN as NV on NV.MaNV in (select MaNV

from CHUNGNHAN)

and not exists (select \*

from MAYBAY as MB, CHUNGNHAN as CN

where (CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB) and CB.DoDai < MB.TamBay))

group by CB.MaCB;

-- Cau 55

(select CB1.MaCB, CB1.GioDi

from CHUYENBAY as CB1

where CB1.GaDi = 'HAN' and CB1.GaDen = 'CXR' and CB1.GioDen < '16:00:00')

union

(select CB2.MaCB, CB2.GioDi

from CHUYENBAY as CB2, CHUYENBAY as CB3

where (CB2.GaDen = CB3.GaDi) and CB2.GaDi = 'HAN' and CB3.GaDen = 'CXR' and CB3.GioDen < '16:00:00');

-- Cau 56

select MB.Loai

from MAYBAY as MB

where not exists (select \*

from CHUNGNHAN as CN, NHANVIEN as NV

where (CN.MaNV = NV.MANV and CN.MaMB = MB.MaMB) and NV.Luong <= 200000);

-- Cau 57

select \*

from CHUYENBAY as CB

where not exists (select \*

from CHUNGNHAN as CN, MAYBAY as MB, NHANVIEN as NV

where (CN.MaMB = MB.MaMB and CN.MaNV = NV.MaNV) and MB.TamBay > CB.DoDai and NV.Luong <= 100000);

-- Cau 58

select distinct Ten

from CHUNGNHAN as PC, NHANVIEN as NV

where (PC.MaNV = NV.MaNV) and not exists (select CN.MaMB

from CHUNGNHAN as CN, MAYBAY as MB

where (CN.MaMB = MB.MaMB) and MB.TamBay < 3200 and PC.MaNV = CN.MaNV);

select Ten

from NHANVIEN

where MaNV in (select MaNV

from CHUNGNHAN as PC

where not exists (select CN.MaMB

from CHUNGNHAN as CN, MAYBAY as MB

where (CN.MaMB = MB.MaMB) and MB.TamBay < 3200 and PC.MaNV = CN.MaNV));

select Ten

from NHANVIEN

where MaNV in (select CN1.MaNV

from CHUNGNHAN as CN1, MAYBAY as MB

where (CN1.MaMB = MB.MaMB) and MB.TamBay > 3200

group by CN1.MaNV

having count(CN1.MaMB) = (select count(CN2.MaMB)

from CHUNGNHAN as CN2

where CN2.MaNV = CN1.MaNV));

-- Cau 59

select Ten

from NHANVIEN

where MaNV in (select PC.MaNV

from CHUNGNHAN as PC

where PC.MaMB in (select MaMB

from MAYBAY

where Loai like '%Boeing%')

and not exists (select CN.MaMB

from CHUNGNHAN as CN, MAYBAY as MB2

where (CN.MaMB = MB2.MaMB) and MB2.TamBay < 3200 and PC.MaNV = CN.MaNV));

select Ten

from NHANVIEN

where MaNV in (select PC.MaNV

from CHUNGNHAN as PC, MAYBAY as MB1

where (PC.MaMB = MB1.MaMB) and MB1.Loai like '%Boeing%'

and not exists (select CN.MaMB

from CHUNGNHAN as CN, MAYBAY as MB2

where (CN.MaMB = MB2.MaMB) and MB2.TamBay < 3200 and PC.MaNV = CN.MaNV));

-- Cau 60

select \*

from NHANVIEN as NV

where not exists (select \*

from MAYBAY as MB

where not exists (select \*

from CHUNGNHAN as CN

where CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB));

-- Cau 61

select \*

from NHANVIEN as NV

where not exists (select \*

from MAYBAY as MB

where MB.Loai like '%Boeing%' and not exists (select \*

from CHUNGNHAN as CN

where CN.MaNV = NV.MaNV and CN.MaMB = MB.MaMB));