

Part 2 1)

Select 'TRUE' as result from operates where NOT EXISTS

(Select * from operates op, bills b

where b.bar = op.bar and b.day = op.day and (b.time < op.start or b.time > op.end))

UNION

Select 'FALSE' as result from operates where EXISTS

(Select * from operates op, bills b

where b.bar = op.bar and b.day = op.day and (b.time < op.start or b.time > op.end));

Part 2 2)

Select 'TRUE' as result from frequents where NOT EXISTS(

Select * from frequents f1, frequents f2, bar b1, bar b2

where f1.drinker = f2.drinker and f1.bar = b1.name and f2.bar = b2.name

and b1.name <> b2.name and b1.state <> b2.state)

UNION

Select 'FALSE' as result from frequents where EXISTS(

Select * from frequents f1, frequents f2, bar b1, bar b2

where f1.drinker = f2.drinker and f1.bar = b1.name and f2.bar = b2.name

and b1.name <> b2.name and b1.state <> b2.state);

Part 2 3)

Select 'TRUE' as result from sellsbeer where NOT EXISTS

(Select * from

(Select sb1.barname as barName1, sb1.beername as beerName1, sb1.price as beerPrice1, sb2.barname as barName2, sb2.beername as beerName2, sb2.price as beerPrice2 from sellsbeer sb1, sellsbeer sb2

where sb1.barname = sb2.barname and sb1.beername <> sb2.beername and sb1.price < sb2.price) as sb3, sellsbeer s b4, sellsbeer sb5

where sb3.beerName1 = sb4.beername and sb3.beerName2 = sb5.beername and sb4.price > sb5.price and sb3.barName1 <> sb4.barname and sb3.barName2 <> sb5.barname)

UNION

Select 'FALSE' as result from sellsbeer where EXISTS

(Select * from

(Select sb1.barname as barName1, sb1.beername as beerName1, sb1.price as beerPrice1, sb2.barname as barName2, sb2.beername as beerName2, sb2.price as beerPrice2 from sellsbeer sb1, sellsbeer sb2

where sb1.barname = sb2.barname and sb1.beername <> sb2.beername and sb1.price < sb2.price) as sb3, sellsbeer s b4, sellsbeer sb5

where sb3.beerName1 = sb4.beername and sb3.beerName2 = sb5.beername and sb4.price > sb5.price and sb3.barName1 <> sb4.barname and sb3.barName2 <> sb5.barname);