-- Part 1 --

Select distinct 'True' as 'nonempty'

from Bills

where EXISTS(select * from Bills bills

inner join Operates oper1 on bills.bar_name = oper1.BarName

where bills.day = oper1.OperateDay and (bills.bill_time > oper1.OperateEnd or bills.bill_time < oper1.OperateStart))

UNION

select distinct 'False' as 'nonempty'

from Bills

where NOT EXISTS(select * from Bills bills

inner join Operates oper1 on bills.bar_name = oper1.BarName

where bills.day = oper1.OperateDay and (bills.bill_time > oper1.OperateEnd or bills.bill_time < oper1.OperateStart));

-- Part 2 --

select distinct 'True' as 'nonempty'

from Frequents

where EXISTS(select distinct *

from ((frequents freq2

inner join Drinker drink1 on freq2.DrinkerName = drink1.DrinkerName)

inner join Bar bar on freq2.BarName= bar.BarName)

where bar.BarState != drink1.DrinkerState)

UNION

select distinct 'False' as 'nonempty'

from Frequents

where NOT EXISTS(select distinct *

from ((frequents freq2

inner join Drinker drink1 on freq2.DrinkerName = drink1.DrinkerName)

inner join Bar bar on freq2.BarName= bar.BarName)

where bar.BarState != drink1.DrinkerState);

-- Part 3 --

select distinct 'True' as 'nonempty'

from sellsbeer

where EXISTS(SELECT * FROM sellsbeer sell1, sellsbeer sell2

WHERE sell2.price > sell1.price AND EXISTS (

select * FROM sellsbeer sell3
WHERE sell3.BeerName = sell2.BeerName AND sell3.price < sell1.price))
Union
select distinct 'False' as 'nonempty'
from sellsbeer
where NOT EXISTS(SELECT * FROM sellsbeer sell1, sellsbeer sell2
WHERE sell2.price > sell1.price AND EXISTS (

select * FROM sellsbeer sell3
WHERE sell3.BeerName = sell2.BeerName AND sell3.price < sell1.price));</pre>