

## Quiz 5: SQL (10 points), 10 minutes (afternoon section)

Consider the following tables similar to those shown in class (key attributes are underlined):

Beers(name, manf), Drinkers(name, city, phone), Bars(name, city)

Likes(drinker, beer), Frequents(drinker, bar), Sells(bar, beer, price)

Write SQL queries for the following questions. Do **NOT** use aggregation and group by.

1. [6 points] Give **two** methods for finding beers liked by drinkers who frequent Joe's bar or Bob's bar

*(method 1)*

*SELECT distinct L.beer*

*FROM Frequents F, Likes L*

*WHERE F.drinker = L.drinker and (F.bar = "Joe's bar" or F.bar = "Bob's bar");*

*(method 2)*

*SELECT distinct L.beer*

*FROM Likes L*

*WHERE L.drinker in (*

*SELECT drinker*

*FROM Frequents F*

*WHERE F.bar = "Joe's bar" or F.bar = "Bob's bar");*

2. [4 points] Find drinkers who like **only one** beer and have a phone number starting with "626".

*SELECT L1.drinker*

*FROM Likes L1, Drinkers D*

*WHERE not exists (*

*SELECT L2.drinker*

*FROM Likes L2*

*WHERE L1.drinker = L2.drinker and L1.beer != L2.beer)*

*and L1.drinker = D.name and D.phone like '626%';*