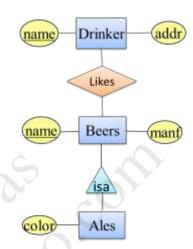
INF 551 – Fall 2017 (Morning section)

Quiz 7: Relational modeling & SQL (10 points), 15 minutes

1. [4 points] Convert the E/R diagram into a relational model. Use **the E/R approach** in converting subclasses.

Drinker(<u>drinker_name</u>,addr)
Beers(<u>beer_name</u>, manf)
Likes(<u>drinker_name</u>,beer_name)
Ales(<u>beer_name</u>, color)



- 2. [6 points] Using the relational model in the above question, write an SQL query for each of the following questions.
 - a. [2 points] Find the color and manufacturer of all Ales beers.

Select Ales.color, Beers.manf from Ales, Beer where Ales.beer_name = Beers.beer_name;

b. [2 points] Find names of all drinkers who like Ales beers.

Select Drinker.drinker_name from Drinker, Likes where Drinker.drinker_name = Likes.drinker_name and Likes.beer_name in (Select Ales.beer_name from Ales);

c. [2 points] Find names of all manufacturers that make at least two different beers.

SELECT DISTINCT b1.manf FROM Beers b1, Beers b2
WHERE b1.beer_name <> b2.beer_name and b1.manf = b2.manf;

1. 漏写 distinct

2. ◇和 = 写反了。逻辑错误!