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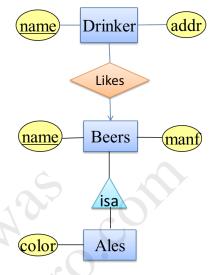
INF 551 – Fall 2017 (Afternoon section)

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

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

converting subclasses. Note that we assume that each drinker likes at most one beer. **Do NOT create a separate relation for Likes.**

Drinker(<u>name</u>, addr, LikedBeers) Beers(<u>name</u>, manf) Ales(<u>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 beer name liked by "Steve".

Select LikedBeer as BeerLikedBySteve From Drinker Where name = "Steve";

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

Select name as drinker From Drinker Where LikedBeers in (select name from Ales);

c. [2 points] Find names of all pairs of beers that are made by the same manufacturer. Show the names in the alphabetic order.

Select b1.name, b2.name From Beers b1, Beers b2 Where b1.manf = b2.manf and b1.name<b2.name;