Name:	USC ID:	

INF 551 – Fall 2017 (Afternoon section)

Quiz 8: SQL, Constraints & Views (10 points), 15 minutes

- 1. [6 points] Recall tables Beers(name, manf) and Sells(bar, beer, price). Write an SQL query to find beers not sold in any bars, using each of the following methods.
 - a. [2 points] Using "in" or "not in".

select name from Beers where name not in (select beer from Sells);

b. [2 points] Using outer join.

Select name
From Beers left outer join Sells on Beers.name = Sells.beer
Where bar is Null;

c. [2 points] Using "exists" or "not exists".

Select name from Beers Where not exists (Select beer From sells Where beer=name);

2. [4 points] Suppose "beer" (attribute) of Sells is a foreign key referring to "name" of Beers. When should the database check possible violations of the foreign key constraint? (List all the scenarios, i.e., insert/delete/update to which table).

Insert and update to Sells Delete and update to Beers