

CS327E Lecture 12 - Monday 3/7/2016

Reading Quiz

1. D
2. A
3. A
4. B
5. A

Concept Questions

1. The pharma company decides to normalize the table. Is the resulting table in 1NF?
 - a. This is the answer because all columns are properly decomposed to scalar values, as opposed to cramming multiple pieces of data into a column.
 - b. This is not the answer because the resulting table has only one value per cell.
 - c. This is not the answer.
2. Can you find all the FDs that hold for this *Drugs* table?
 - a. This is not the answer because drug price can fluctuate, implying different prices for the same drug.
 - b. Start date can also change, look at Singulair row.
 - c. This is the answer.
 - d. Same logic as b.
3. Suppose we added a *drug_description* field to the *Drugs* table as shown below. Does this change the normal form of this table? Which normal form is the table in?
 - a. This is not the answer.
 - b. This is the answer because we are saying that drug_name functionally determines drug_description. If a drug has the same name, then it will have the same drug_description, thus having redundancy.
 - c. Since it has redundancy, and a non-key field is determining another non-key field, then it is not in 3NF.
 - d. This is not the answer.