Normalization Questions and Answers

Database Systems, CSCI 4380-01
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Question 1 Suppose you are given a relation $R = (A, B, C, D, E)$ with the following functional dependencies: $\{CE \rightarrow D, D \rightarrow B, C \rightarrow A\}$.
a. Find all candidate keys.
b. Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
c. If the relation is not in BCNF, decompose it until it becomes BCNF. At each step, identify a new relation, decompose and re-compute the keys and the normal forms they satisfy.

Answer.
a. The only key is $\{C, E\}$
b. The relation is in 1NF
c. Decompose into R1=(A,C) and R2=(B,C,D,E). R1 is in BCNF. R2 is in 2NF. Decompose R2 into, R21=(C,D,E) and R22=(B,D). Both relations are in BCNF.

Question 2 Suppose you are given a relation R=(A,B,C,D,E) with the following functional dependencies: $\{BC \rightarrow ADE, D \rightarrow B\}$.
a. Find all candidate keys.
b. Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
c. If the relation is not in BCNF, decompose it until it becomes BCNF. At each step, identify a new relation, decompose and re-compute the keys and the normal forms they satisfy.

Answer.
a. The keys are $\{B, C\}$ and $\{C, D\}$
b. The relation is in 3NF
c. It cannot be put into BCNF, even if I remove D and put into a relation of the form (B,C,D) (I need C for the functional dependency), the resulting relation would not be in BCNF.

Question 3 Suppose you are given a relation R=(A,B,C,D,E) with the following functional dependencies: $BD \rightarrow E, A \rightarrow C$.
a. Show that the decomposition into R1=(A,B,C) and R2=(D,E) is lossy. You can show using any method. My suggestion is to show how spurious tuples result from this decomposition with respect to the table below:

A	B	C	D	E
1	2	3	4	5
1	8	3	4	4

b. Find a single dependency from a single attribute X to another attribute Y such that when you

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