

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: $\{CE \rightarrow D, D \rightarrow B, C \rightarrow A\}$.

- Find all candidate keys.
- Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
- 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.

- The only key is $\{C, E\}$
- The relation is in 1NF
- 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: $\{BC \rightarrow ADE, D \rightarrow B\}$.

- Find all candidate keys.
- Identify the best normal form that R satisfies (1NF, 2NF, 3NF, or BCNF).
- 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.

- The keys are $\{B, C\}$ and $\{C, D\}$
- The relation is in 3NF
- 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: $BD \rightarrow E, A \rightarrow C$.

- 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

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