

# 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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