

SSN COLLEGE OF ENGINEERING  
Department of Computer Science & Engineering

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CS8492-Database Management Systems  
Topic: Functional Dependencies (FD)  
CLASS EXERCISE

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Consider the following relation with the given previous extension(state):

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A	B	C	Tuple
10	b1	c1	1
10	b2	c2	2
11	b4	c1	3
12	b3	c4	4
13	b1	c1	5
14	b3	c4	6

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State which of following dependencies may hold in above relation?  
If the dependency cannot hold, explain why by specifying the tuples  
that cause the violation.

1.  $A \rightarrow B$
2.  $B \rightarrow C$
3.  $C \rightarrow B$
4.  $B \rightarrow A$
5.  $C \rightarrow A$

Does the above relation have a potential candidate key? If it does,  
What is it? If it does not, why not?

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