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Q4

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Consider the relation $R(A,B,C,D,E)$ and the set of functional dependencies $S1 = \{AB \rightarrow C, AE \rightarrow D, D \rightarrow B\}$. Which of the following sets $S2$ of FDs does NOT follow from $S1$?

☐ $S2 = \{AD \rightarrow C\}$ ☐ $S2 = \{AD \rightarrow C, AE \rightarrow B\}$ ☒ $S2 = \{ABC \rightarrow D, D \rightarrow B\}$ ☐ $S2 = \{ADE \rightarrow BC\}$ 

Explanation

Using the FDs in $S1$: $\{AD\}^+ = \{ABCD\}$; $\{AE\}^+ = \{ABCDE\}$; $\{ABC\}^+ = \{ABC\}$; $\{D\}^+ = \{B\}$; $\{ADE\}^+ = \{ABCDE\}$

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