In-Video Quiz

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Q1

1/1 point (ungraded)

Consider a relation R(A,B,C,D) with functional dependencies A,B → C and C,D → E. Suppose there are at most 3 different values for each of A, B, and D. What's the maximum number of different values for E?

- (•) 27
- ( ) 9
- ( ) 3
- ( ) 81

✔

Explanation

There are at most 3*3=9 combinations of A,B values, so by A,B → C at most 9 different values for C. With at most 3 different values for D, by C,D → E there are at most 9*3=27 different values for E.

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