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Q2

1/1 point (ungraded)

Consider the relation $\text{Took}(\text{sID}, \text{name}, \text{courseNum}, \text{title})$. Students have a unique student ID and (possibly not unique) name; courses have a unique course number and (possibly not unique) title. Each tuple in the relation encodes the fact that the given student took the given course. What are all of the functional dependencies for relation Took ?

☐ $\text{sID} \rightarrow \text{courseNum}$

☒ $\text{sID} \rightarrow \text{name}, \text{courseNum} \rightarrow \text{title}$

☐ $\text{name} \rightarrow \text{sID}, \text{title} \rightarrow \text{courseNum}$

☐ $\text{courseNum} \rightarrow \text{sID}$



Explanation

Answer 1 says a student can only take one course. Answer 3 says student names and course titles are unique. Answer 4 says courses may only be taken by one student.

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You have used 1 of 4 attempts

 Answers are displayed within the problem

Q3

1/1 point (ungraded)

Consider the relation $\text{Took}(\text{sID}, \text{name}, \text{courseNum}, \text{title})$ with functional dependencies $\text{sID} \rightarrow \text{name}$ and $\text{courseNum} \rightarrow \text{title}$. Is Took in Boyce-Codd Normal Form?

☐ Yes

☒ No



Explanation

BCNF requires the left-hand side of functional dependencies to be a key for the relation. Neither sID nor courseNum are keys for Took .

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