🏠 Course / Relational Design Theory / Relational Design Overview

Previous Next

In-Video Quiz

🔖 Bookmark this page

✏️ Hide Notes

Q4

1/1 point (ungraded)

Consider the relation StudentInfo(sID, dorm, courseNum). Students typically live in several dorms and take many courses during college. Suppose the data does not capture which dorm(s) a student lived in when taking a specific course, i.e., all dorm-course combinations are recorded for each student. What are all of the multivalued dependencies for relation StudentInfo?

- ○ sID ↠ dorm
- ○ sID ↠ courseNum
- ● sID ↠ dorm, sID ↠ courseNum
- ○ sID ↠ dorm, sID ↠ courseNum, dorm ↠ courseNum

✔

Explanation

Answer 1 and Answer 2 both omit the implied symmetric multivalued dependency. The third multivalued dependency in Answer 4 says all students in each dorm take the same set of courses.

| Submit | You have used 1 of 4 attempts |

ⓘ Answers are displayed within the problem

Q5
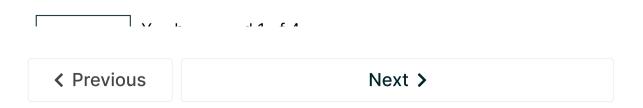
1/1 point (ungraded)

Consider the relation StudentInfo(sID, dorm, courseNum) with multivalued dependencies sID ↠ dorm and sID ↠ courseNum. Is StudentInfo in Fourth Normal Form?

- ○ Yes
- ● No

✔

Explanation

4NF requires the left-hand side of multivalued dependencies to be a key for the relation. sID is not a key for StudentInfo.

Hide Notes

edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy

Sitemap

Connect

Blog

Contact Us

Help Center

Media Kit

Hide Notes