



< Previous



Next >

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Q3

1/1 point (ungraded)

Which of the following English sentences describes the result of this expression:

$\pi_{sName, cName} (\sigma_{HS > enr} (\sigma_{state='CA'} College \bowtie Student \bowtie \sigma_{major}$

- ☐ All student-college name pairs, where the student is applying to major in CS at the college, the college is in California, and the college is smaller than some high school
- ☐ Students paired with all California colleges to which the student applied to major in CS, where at least one of those colleges is smaller than the student's high school
- ☐ Students paired with all colleges smaller than the student's high school to which the student applied to major in CS, where at least one of those colleges is in California
- ☒ Students paired with all California colleges smaller than the student's high school to which the student applied to major in CS



Explanation

The inner natural join connects students with the colleges to which they've applied, allowing only California colleges and CS-major applications. The outer selection condition filters out all applications except those where the high school is bigger than the college, and the final projection keeps the student and college names.

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You have used 2 of 4 attempts

i Answers are displayed within the problem

Q4

1/1 point (ungraded)

Which of the following expressions finds the IDs of all students such that some college bears the student's name?

- ☐ $\pi_{sID} (College \bowtie Student)$
- ☒ $\pi_{sID} (\sigma_{cName=sName} (College \times Student))$
- ☐ $\pi_{sID} (\pi_{cName} College \bowtie \pi_{cName} (\sigma_{sName=cName} Student))$
- ☐ $\pi_{sID} (\sigma_{cName=sName} (\pi_{sID} Student \times College \times Student))$



Explanation

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The first choice returns the IDs of all students in the database. The third choice is invalid because cName is not an attribute of

< Previous

Next >

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