S (/)   **Engineering:** DB Introduction to Databases

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Q3 (1.0/1.0 points)

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

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

○ 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 ✔

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Q4 (1.0/1.0 points)

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

○ $\pi_{sID}(College \bowtie Student)$

◉ $\pi_{sID}(\sigma_{cName=sName}(College \times Student))$ ✔

○ $\pi_{sID}(\pi_{cName}College \bowtie \pi_{cName}(\sigma_{sName=cName}Student))$

○ $\pi_{sID}(\sigma_{cName=sName}(\pi_{sID}Student \times College \times Student)$

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