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Q1 (1.0/1.0 points)

Three of the following four expressions finds the names of all students who did not apply to major in CS or EE. Which one finds something different? (Hint: You should not assume student names are unique.)

- ☐ $\pi_{sName}(Student \bowtie (\pi_{sID}Student - (\pi_{sID}(\sigma_{major='CS'}Apply) \cup \pi_{sID}(\sigma_{major='EE'}Apply))))$
- ☐ $\pi_{sName}(Student \bowtie (\pi_{sID}Student - \pi_{sID}(\sigma_{major='CS' \vee major='EE'}Apply)))$
- ☐ $\pi_{sName}(\pi_{sID,sName}Student - \pi_{sID,sName}(Student \bowtie \pi_{sID}(\sigma_{major='CS' \vee major='EE'}Apply)))$
- ☒ $\pi_{sName}Student - \pi_{sName}(Student \bowtie \pi_{sID}(\sigma_{major='CS' \vee major='EE'}Apply))$ ✓

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Q2 (1.0/1.0 points)

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

$$\pi_{cName}College - \pi_{cName}(Apply \bowtie (\pi_{sID}(\sigma_{GPA>3.5}Student) \cap \pi_{sID}(\sigma_{major='CS'}Apply)))$$

- ☐ All colleges with no GPA>3.5 applicants who applied for a CS major at that college
- ☒ All colleges with no GPA>3.5 applicants who applied for a CS major at any college ✓
- ☐ All colleges where all applicants either have GPA>3.5 or applied for a CS major at that college
- ☐ All colleges where no applicants have GPA>3.5 or no applicants applied for a CS major at that college

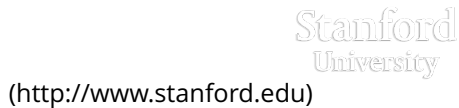
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