



< Previous



Next >

Notifications



In-Video Quiz

🔖 Bookmark this page

Pursue a verified certificate

- ✓ Earn a **verified certificate** of completion to showcase on your resumé
- ✓ Support our **mission** at edX

Upgrade for \$50



Hide Notes

Q1

1/1 point (ungraded)

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.)

☐ $\pi_{sName} (Student \bowtie (\pi_{sID} Student - (\pi_{sID} (\sigma_{major='CS'} Apply))))$

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

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

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



Explanation

If there are two students named Susan, one who did not apply to CS or EE, and one who did, then 'Susan' will correctly be included in the result of the first three expressions, but will incorrectly be omitted from the result of the last one.

Submit

You have used 1 of 4 attempts

i Answers are displayed within the problem

Q2

1/1 point (ungraded)

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

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

☐ 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



Explanation

The intersection finds the IDs of all students who have GPA>3.5 and applied for a CS major at any college. The natural-join with Apply finds all colleges those students applied for. The minus finds

[< Previous](#)

[Next >](#)

© All Rights Reserved



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](#)



© 2022 edX LLC. All rights reserved.
深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)

Hide Notes