Lesson 5 Quiz

5 试题

1 point

1。
Given a sequence database, as shown in Table 3, with support threshold minsup = 3, which of the following sequences are frequent?

SID	Sequence
1	$\langle a(bc)(de)cf \rangle$
2	$\langle a(bd)(bc)ef \rangle$
3	$\langle bc(ad)ebfcd \rangle$
4	$\langle ab(cd)d(ab)e \rangle$

Table 3: Sequence database.

- [x] < abc >
- [ ] < a(bc) >
- [ ] < ade >
- [ ] < acf >

- ( ) None of the above

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1 point

2。
Suppose we use Generalized Sequential Patterns (GSP) to find the frequent sequential patterns. After scanning the database once, we find the frequent singleton sequences are: a, b, d. Which of the following could be possible length-2 candidate sequences?

- [ ] <ac>
- [ ] <(bc)>
- [x] <ab>
- [x] <(bd)>

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1 point

3。

Given a sequence database as shown in the following table, suppose we use the SPADE algorithm to find the frequent sequential patterns. Which of the following sequences (in the format of <SID, EID>) belong to the mapped database of item a?

SID	Sequence
1	$\langle a(bc)(de)cf \rangle$
2	$\langle a(bd)(bc)ef \rangle$
3	$\langle bc(ad)ebfcd \rangle$
4	$\langle ab(cd)d(ab)e \rangle$

Table 3: Sequence database.

- [x] <1, 1>
- [ ] <3, 2>
- [x] <4, 1>
- [ ] <1, 2>

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1 point

4。

Given a sequence database, as shown in Table 11. Suppose min_sup = 1. Which of the following does not belong to the < d >-projected database?

SID	Sequence
1	$\langle af(e)(cdeh)cfg(abe)\rangle$
2	$\langle ad(bc)c(fg)(ch)\rangle$
3	$\langle bc(ad)ebf(cdfgh)\rangle$
4	$\langle ab(bd)de\rangle$

Table 11: Sequence database.

- (●) < (c_eh)cfg(abe) >
- ( ) < (bc)c(fg)(ch) >
- ( ) < ebf(cdfgh) >
- ( ) < de >

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1 point

5。
Suppose we use the CloSpan algorithm to find all closed sequential patterns from a sequence database with minimum support 15. During the mining process, we derive the following sequences along with the sizes of their projected DBs: <c>: 50, <ac> 45, <b> 30, <bc>: 30. Then we use the backward sub-pattern rule and the backward super-pattern rule to prune redundant search space. Which of the projected DBs will remain after the pruning?

- [✓] <c>
- [✓] <ac>

- [x] <bc>
- [ ] <b>

- [x] 我（**伟臣 沈**）了解提交不是我自己完成的作业 将永远不会通过此课程或导致我的 Coursera 帐号被关闭。
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