

Lesson 6 Quiz

4 试题

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1.

Which of the following is true about spatial association mining?
Select all that apply.

- ☒ A rule is called a spatial association if its support is no less than the given support threshold and its confidence is no less than the given confidence threshold.
 - ☐ The progressive refinement framework is mainly for visualization purposes.
 - ☐ A rule is called a spatial association as long as its support is no less than the given support threshold.
 - ☒ The progressive refinement framework can reduce the search space of spatial associations.
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2.

Consider a spatial database that consists of 1000 records. If an item A appears 100 times in the database and the rule "if A, then B" appears 100 times, what is the support and confidence for the rule "if A, then B"?

- ☐ support: 100%; confidence: 100%
- ☒ support: 10%; confidence: 100%

- ☐ support: 100%; confidence: 10%
 - ☐ support: 10%; confidence: 10%
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3.

For a frequent trajectory pattern, we require that the consecutive places in the trajectory pattern have a time gap no larger than the time constraint. Given a time constraint of 30 min and a support threshold of 8%, which of the following are valid frequent trajectory patterns?

- ☒ Railway Station —20min→ Middle Bridge —10min → Campus [Support: 8%]
 - ☐ Railway Station —45min→ Castle Square —15min→ Museum [Support: 15%]
 - ☐ Railway Station —55min→ Castle Square —15min→ Museum [Support: 10%]
 - ☐ Railway Station —35min→ Castle Square —15min→ Museum [Support: 3%]
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4.

For mining semantics-rich movement patterns, which of the following statements are true about the top-down mining approach Splitter? Select all that apply.

- ☒ Given a support threshold d , the support of any result movement patterns must be no less than d .
- ☒ In this approach, similar places should be put into the same group to collectively meet the support threshold.
- ☒ The top-down mining approach can effectively reduce

the search space of movement patterns.

☐

The final movement patterns reflect only people's spatial transitions from one region to another.



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