Temporal Data Modeling Survey

Dear survey participant,

thank you very much for taking part in our user study! Your contribution to our research is highly valued, and we appreciate your time and expertise.

I am Sasha Bruns, a PhD student at FIZ Karlsruhe and KIT. The survey is carried out within the research work of Information Service Engineering Group at FIZ Karlsruhe and supervised by Prof. Dr. Harald Sack.

Goal of the Study: The primary goal of this study is to assess the usability and ease of use of different data modeling approaches for cultural and historical data. We aim to understand how different modeling techniques resonate with experts like yourself, regardless of your background in computer science or modeling.

Duration: The study is designed to take around 10 minutes to complete.

Requirements: Even though we ask you about your expertise, no prior experience in computer science or data modeling is necessary to complete it. We value diverse perspectives and welcome participants from various backgrounds who work or interested in diverse DH and related domains.

Method: Firstly, we will ask you several questions regarding your background for the better evaluation of the results. Next, you will be presented with a scenario related to historical data and asked to provide a short feedback on the usability of different modeling approaches.

Your participation in this study is entirely voluntary, and your responses will be anonymized and used for research purposes only. Your insights will help inform the development of user-friendly data modeling approaches tailored to the needs of culture domain experts like yourself.

* Indicates required question

Background Information

Tell us more about yourself and your expertise

1. In which specific areas do you have expertise? *

2. What is your highest level of education completed? *

3. Have they previously worked with data modeling/knowledge engineering? *

Mark only one oval.

- Yes
- No

4. What is your level of expertise in data modeling/knowledge engineering? *

Mark only one oval.

	1	2	3	4	5	
Nov						Expert

User Study

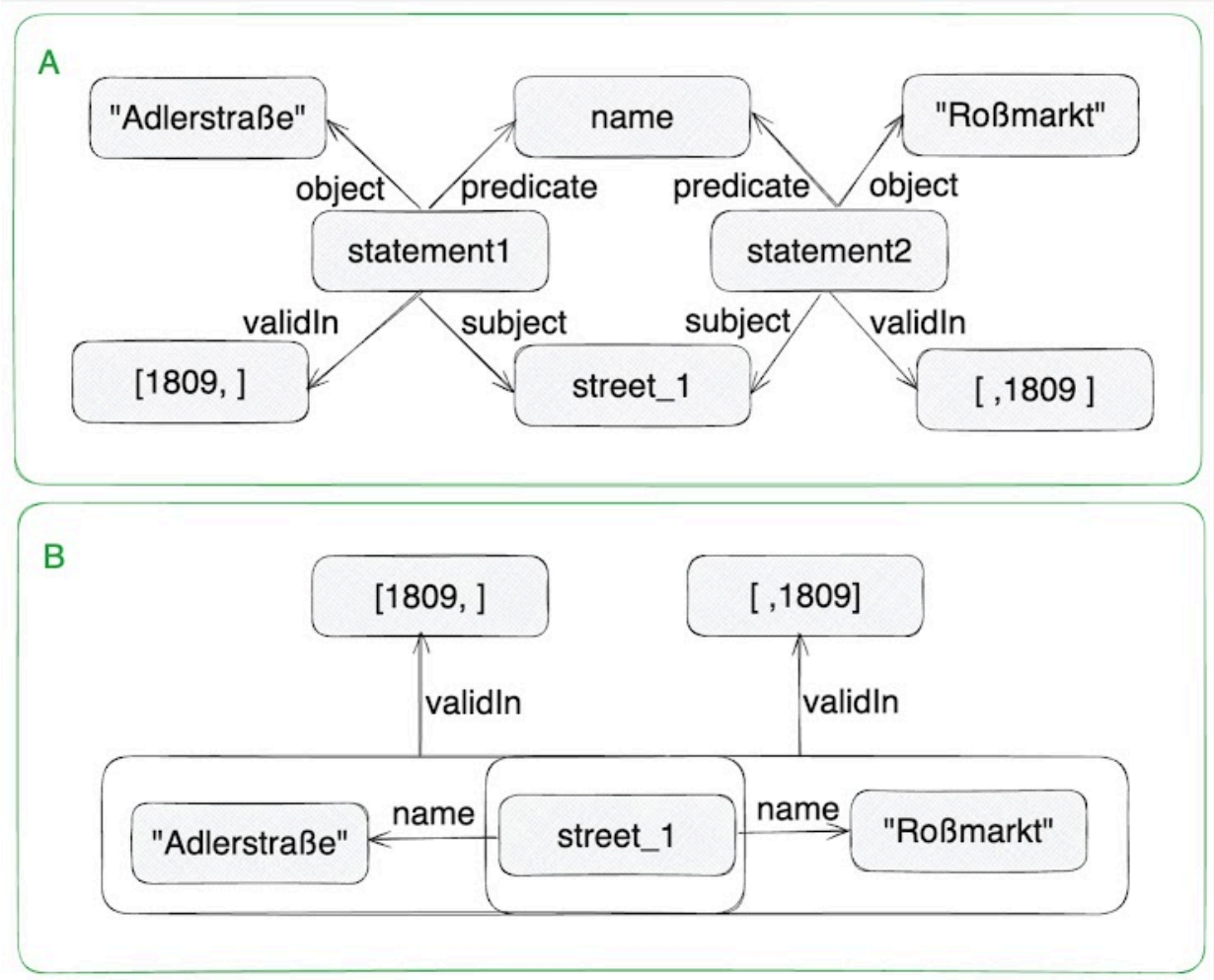
Here is what to expect:

1. In this study, you will be provided with a specific use case scenario related to historical data.
2. Next, you will be shown pairs of modeling approaches, each representing the scenario in a different way. There will be a total of 10 pairs.
3. For each pair, you will be asked to choose the approach that you believe is the easiest to understand, the better, the easiest to use, or the most intuitive, based on your expertise and experience, or a personal choice.
4. You will also be asked to give a short back and explain your choice of the modeling.
5. After that the study is complete.

Question 1

USE CASE: *Until the year 1809, the street was called "Roßmarkt". In 1809, it was officially renamed to "Adlerstraße".*

5. Choose your preferable approach. *



Mark only one oval.

- A
- B

6. Why did you prefer one over the other? *

Mark only one oval.

- More compact (requires fewer objects for simplicity)
- More explicit (uses more objects to provide more explicit representation)
- More clear (objects and relations between the objects are better to grasp)
- More intuitive (the choice aligned with my instincts)
- Other: _____

Question 2

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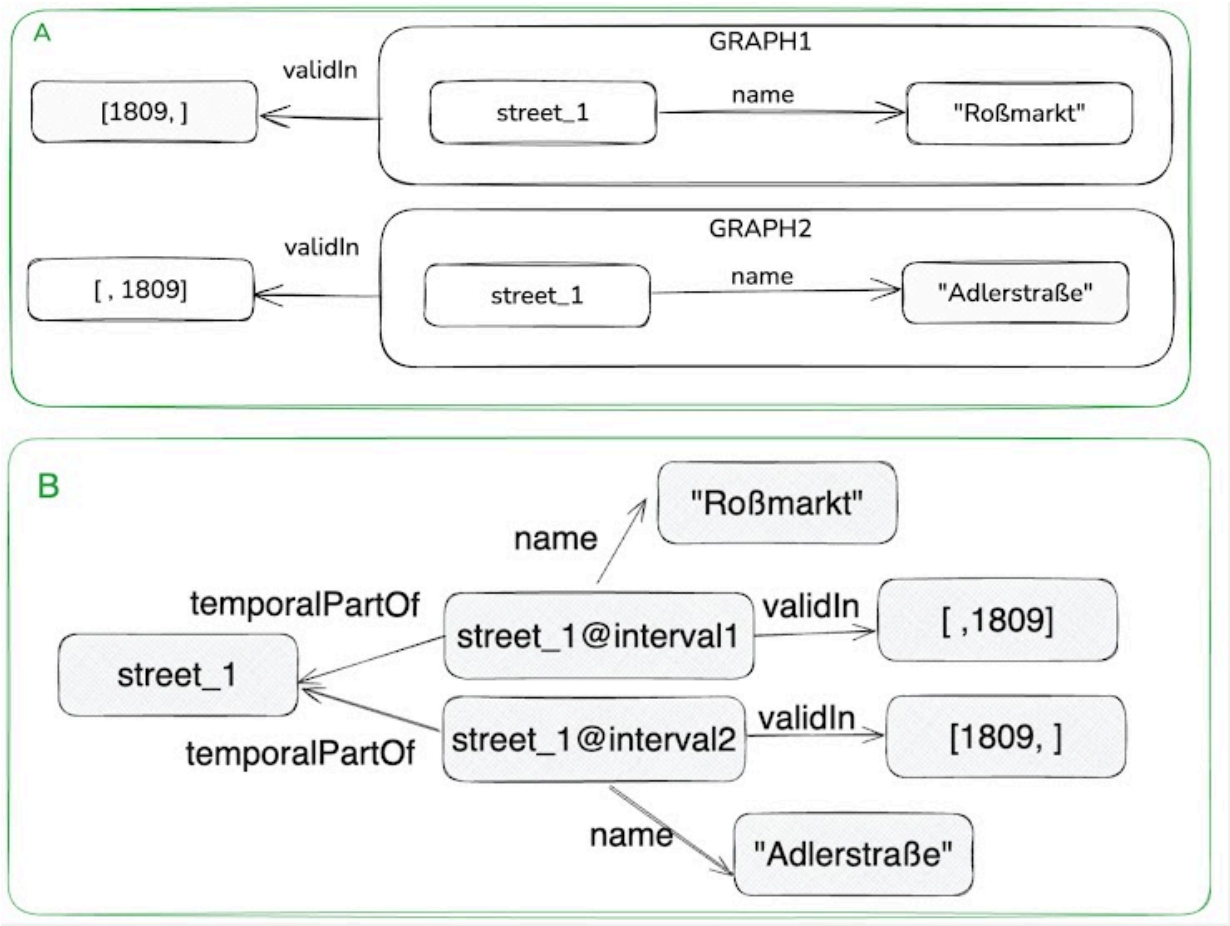
7. Choose your preferable approach *



Mark only one oval.

- A
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8. Why did you prefer one over the other? *

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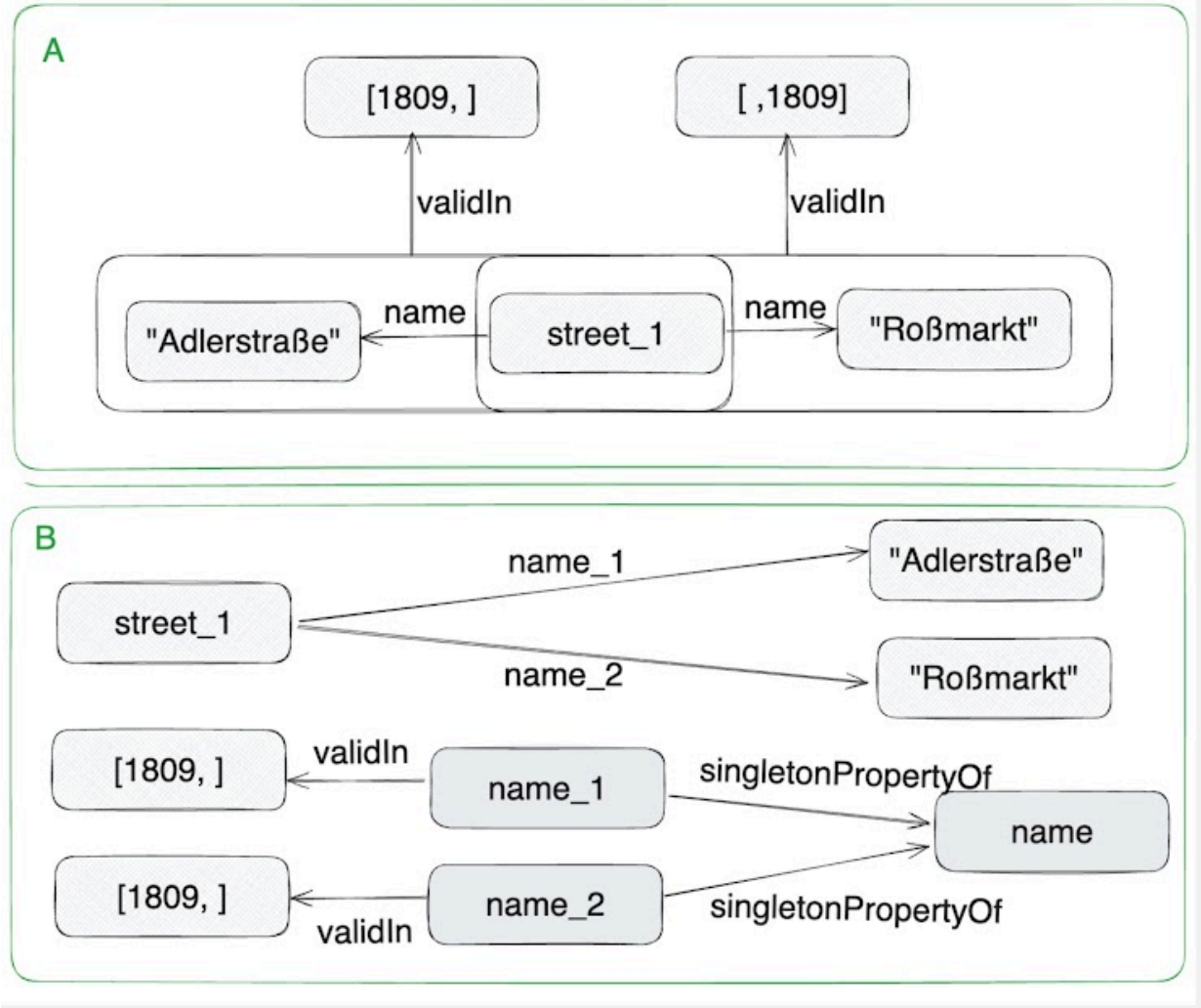
Question 3

USE CASE: *Until the year 1809, the street was called "Roßmarkt". In 1809, it was officially renamed to "Adlerstraße".*

9. Choose your preferable approach *



Mark only one oval.

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10. Why did you prefer one over the other? *

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Question 4

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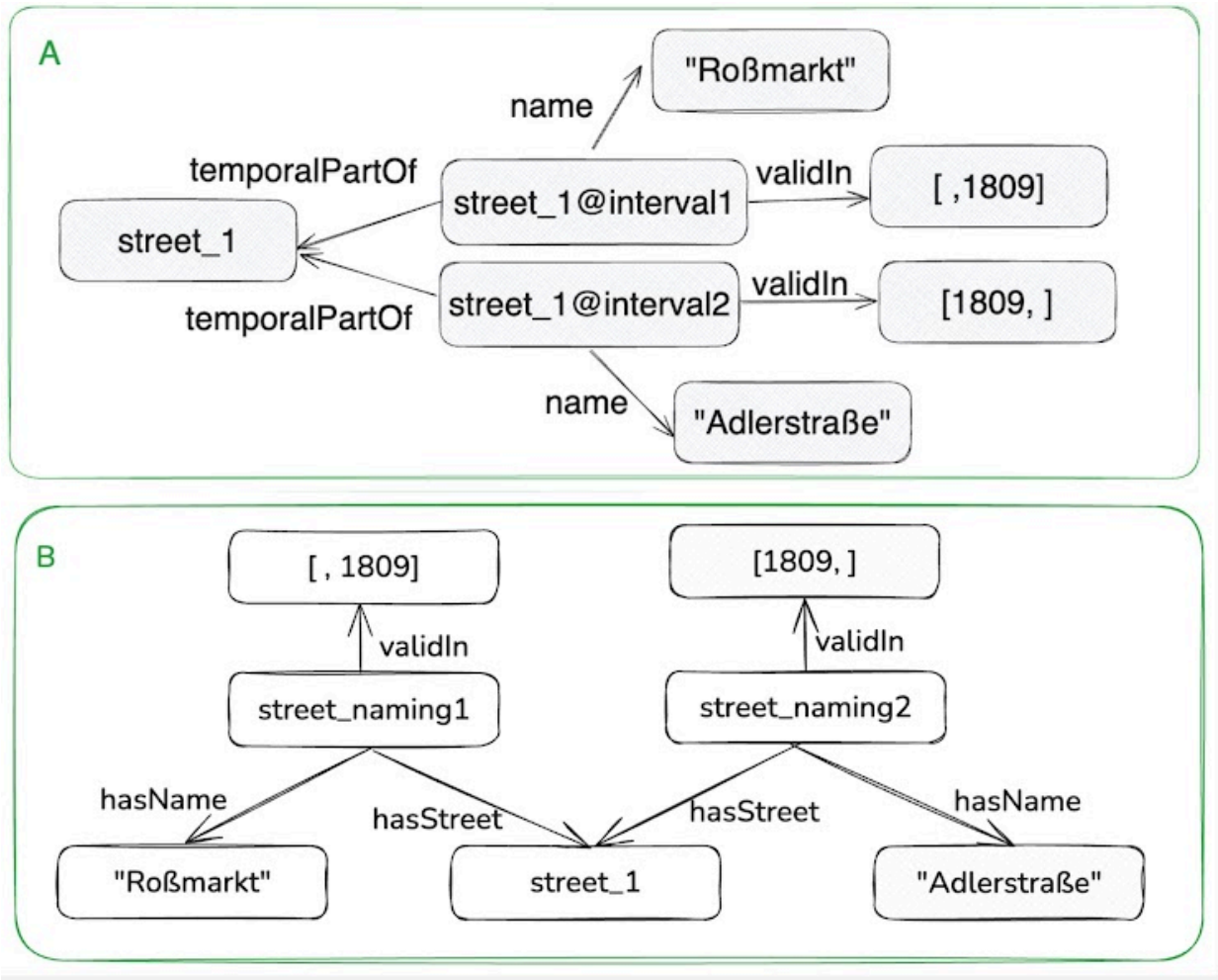
11. Choose your preferable approach *



Mark only one oval.

- A
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12. Why did you prefer one over the other? *

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Question 5

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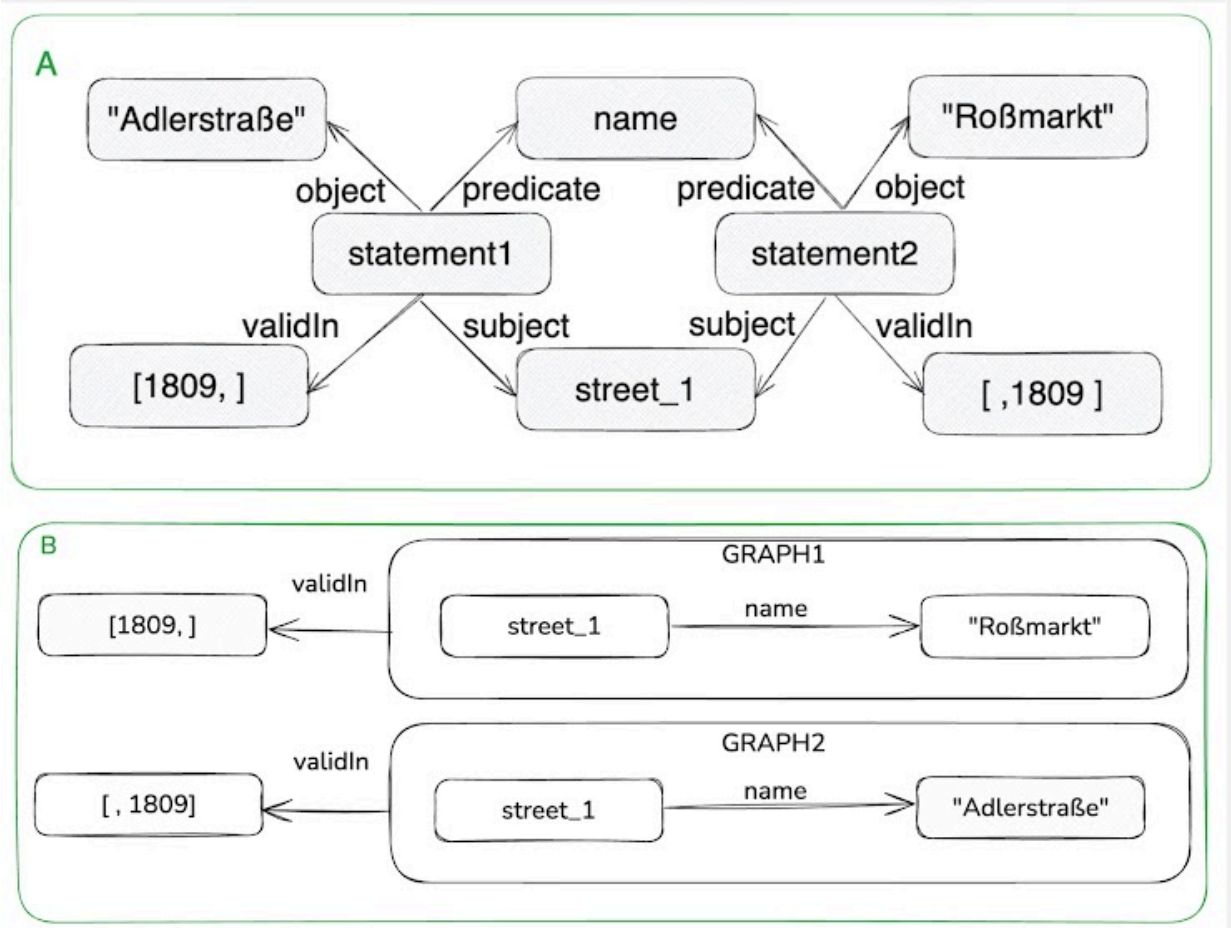
13. Choose your preferable approach *



Mark only one oval.

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14. Why did you prefer one over the other? *

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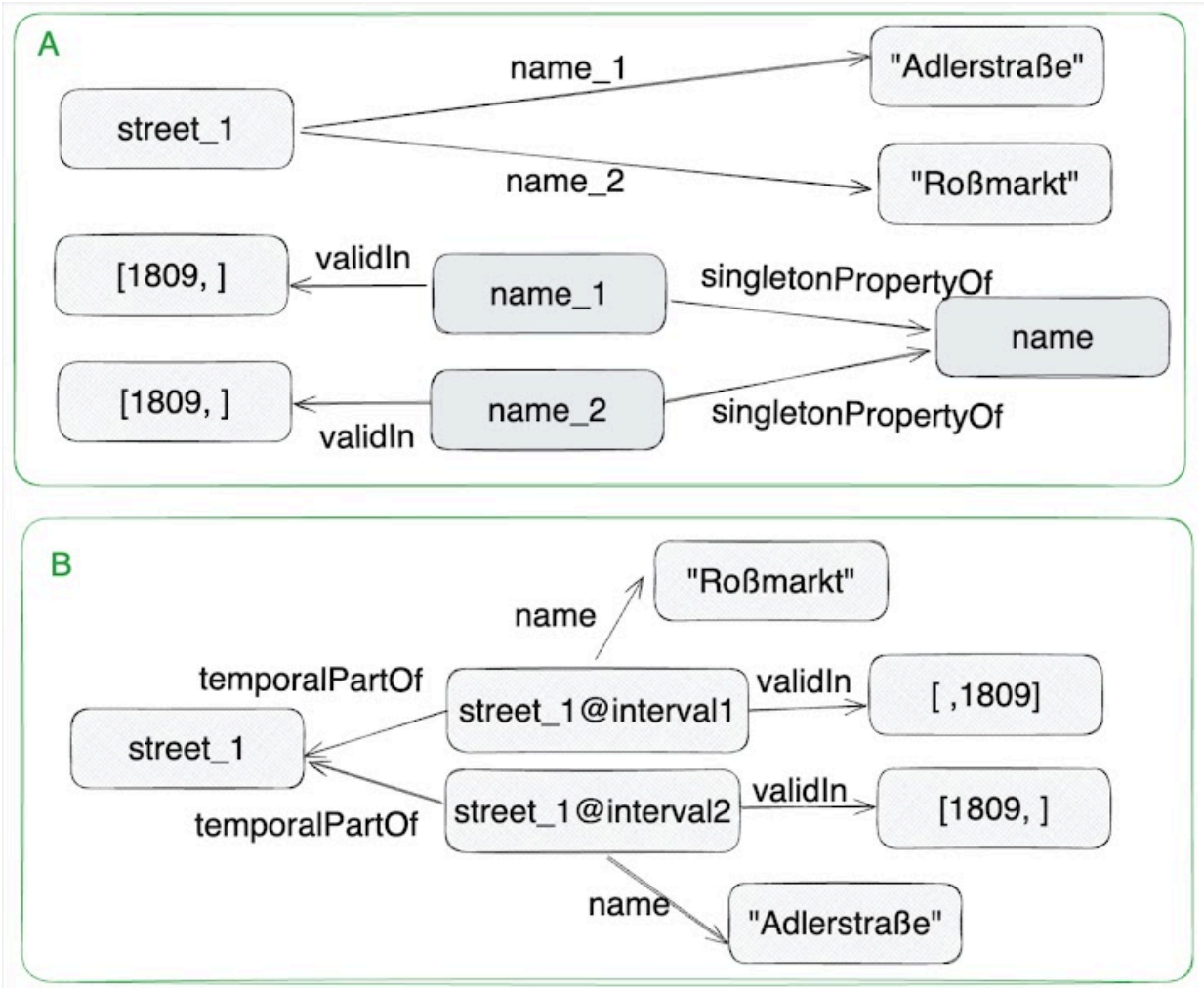
15. Choose your preferable approach *



Mark only one oval.

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16. Why did you prefer one over the other? *

Mark only one oval.

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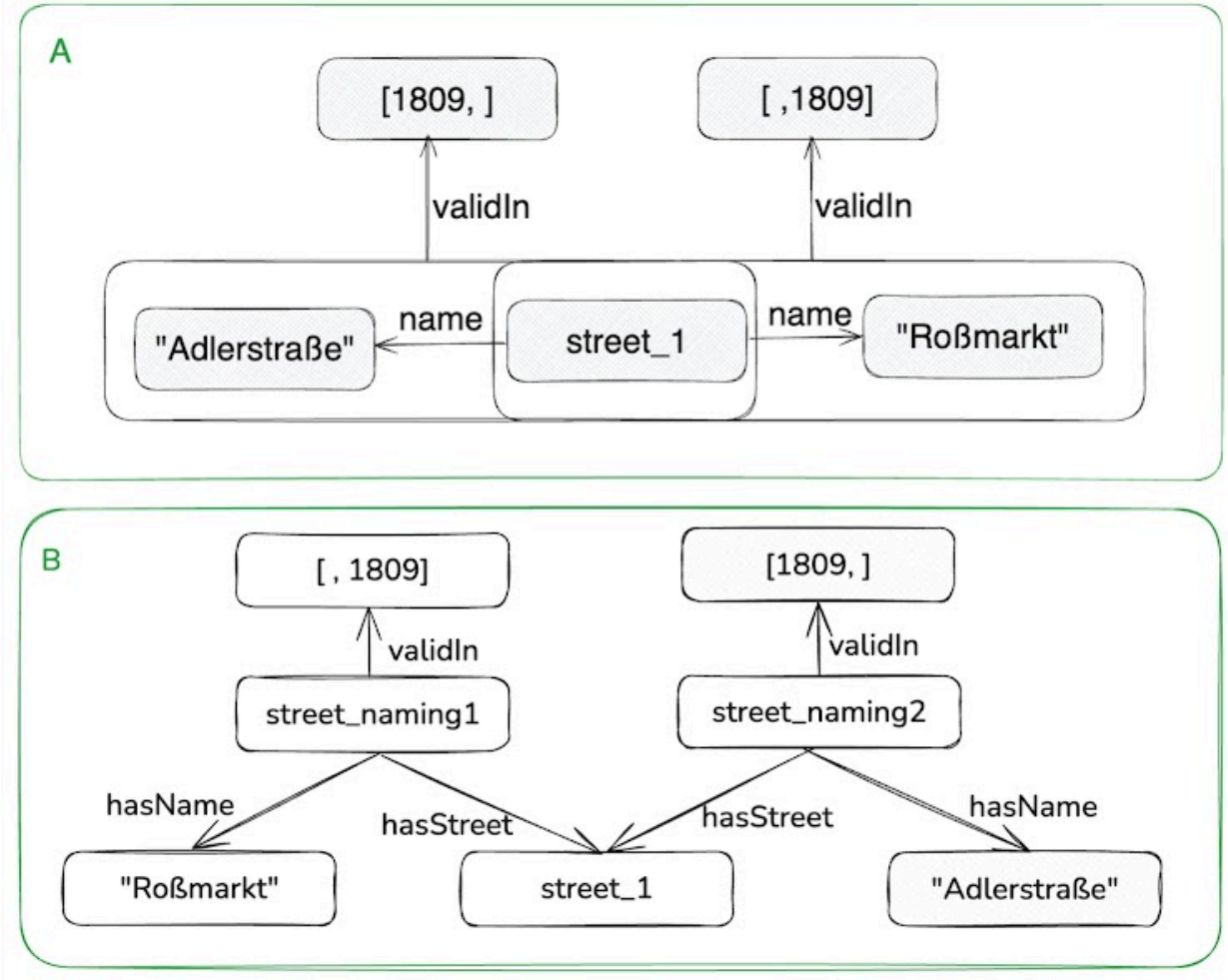

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18. Why did you prefer one over the other? *

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Question 8

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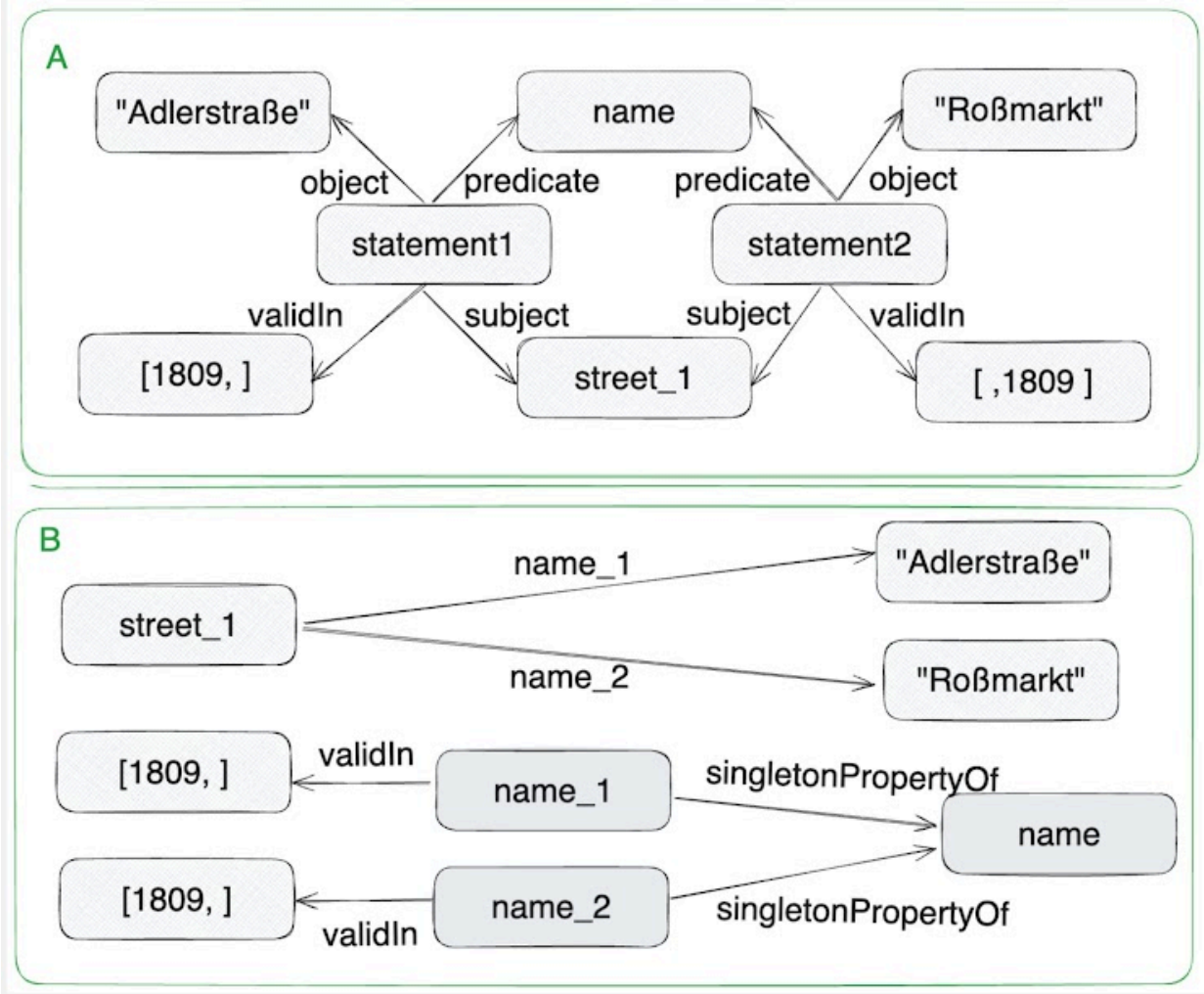
19. Choose your preferable approach *



Mark only one oval.

- A
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20. Why did you prefer one over the other? *

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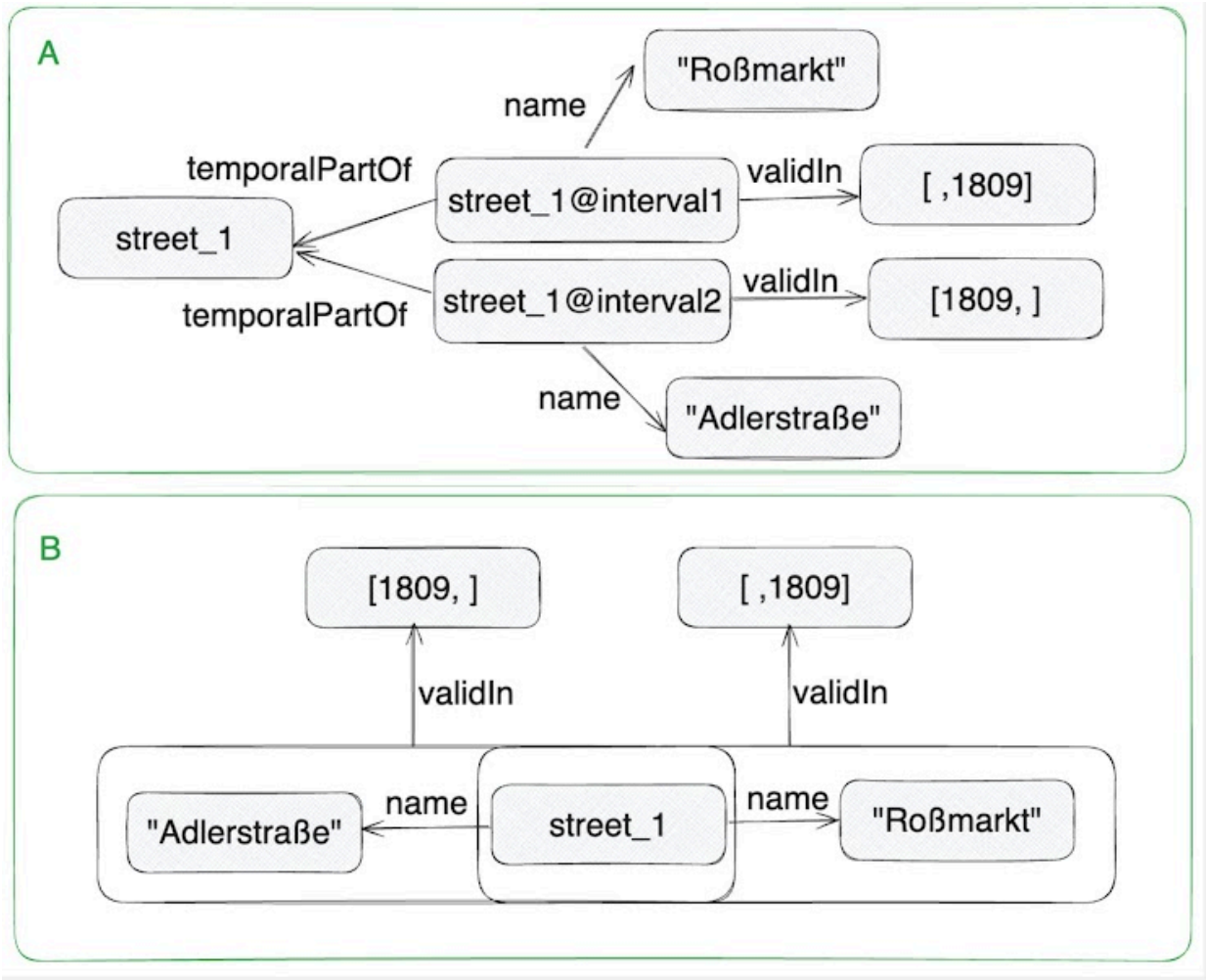

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22. Why did you prefer one over the other? *

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Question 10

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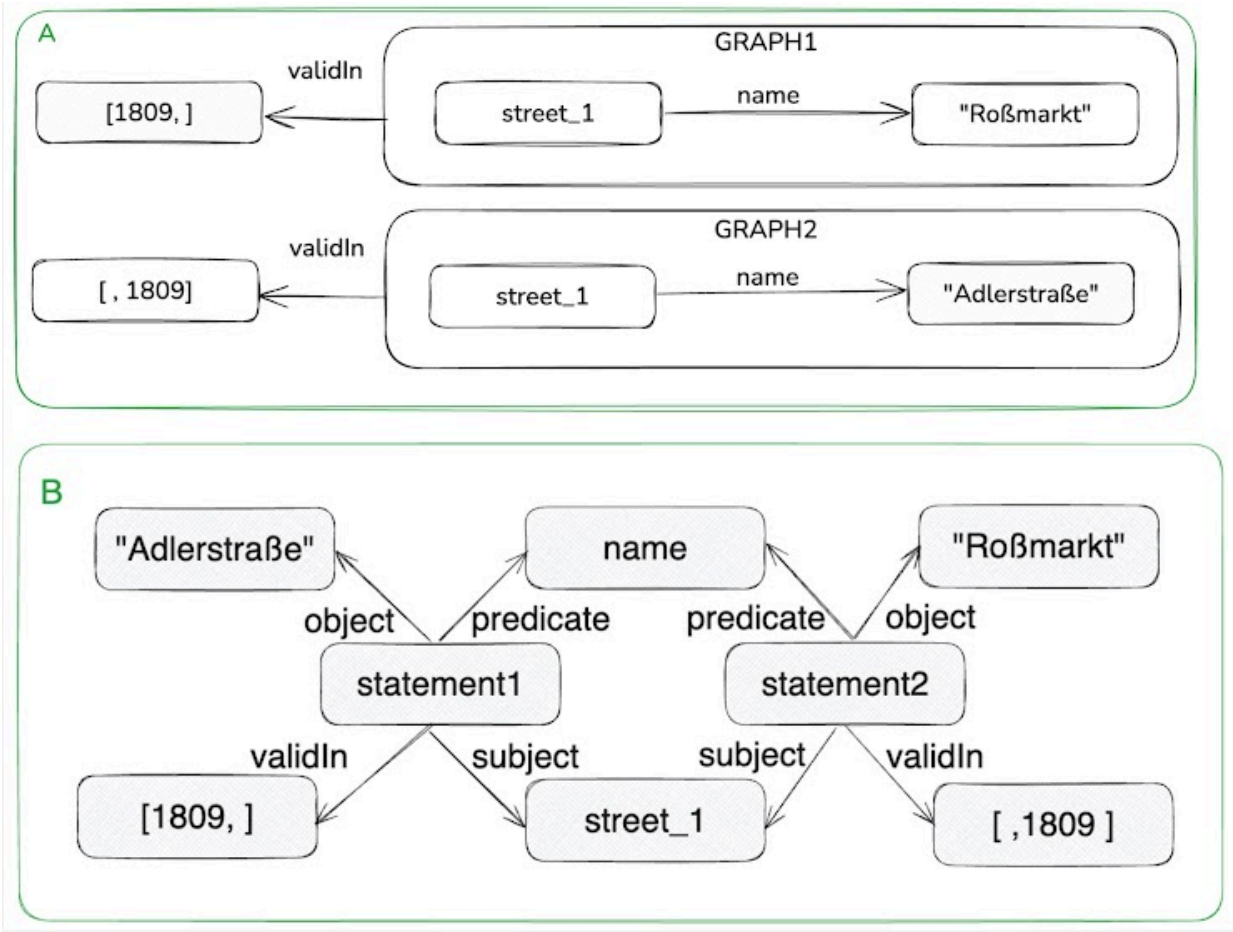
23. Choose your preferable approach *



Mark only one oval.

- A
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24. Why did you prefer one over the other? *

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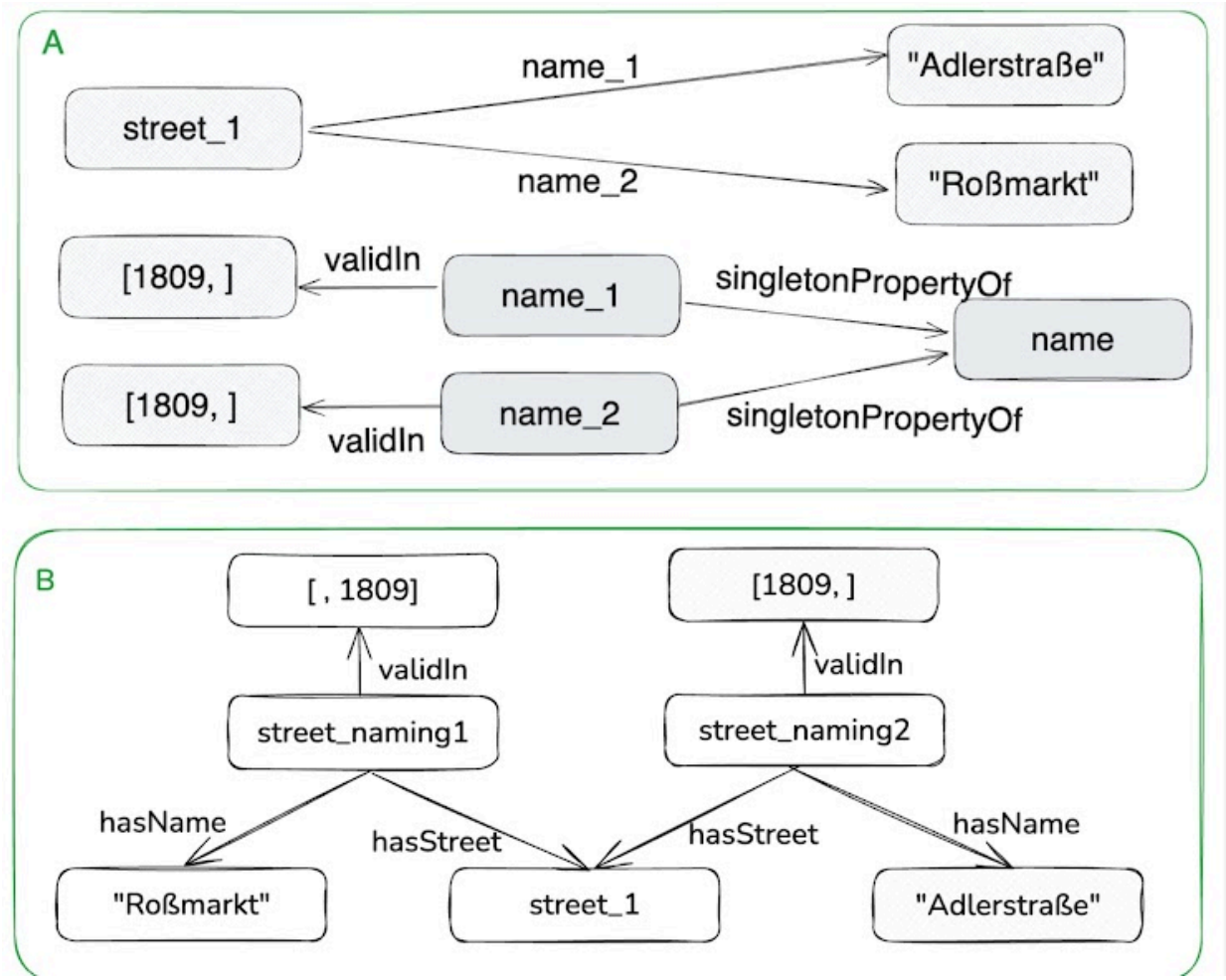
25. Choose your preferable approach *



Mark only one oval.

- A
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26. Why did you prefer one over the other? *

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Question 12

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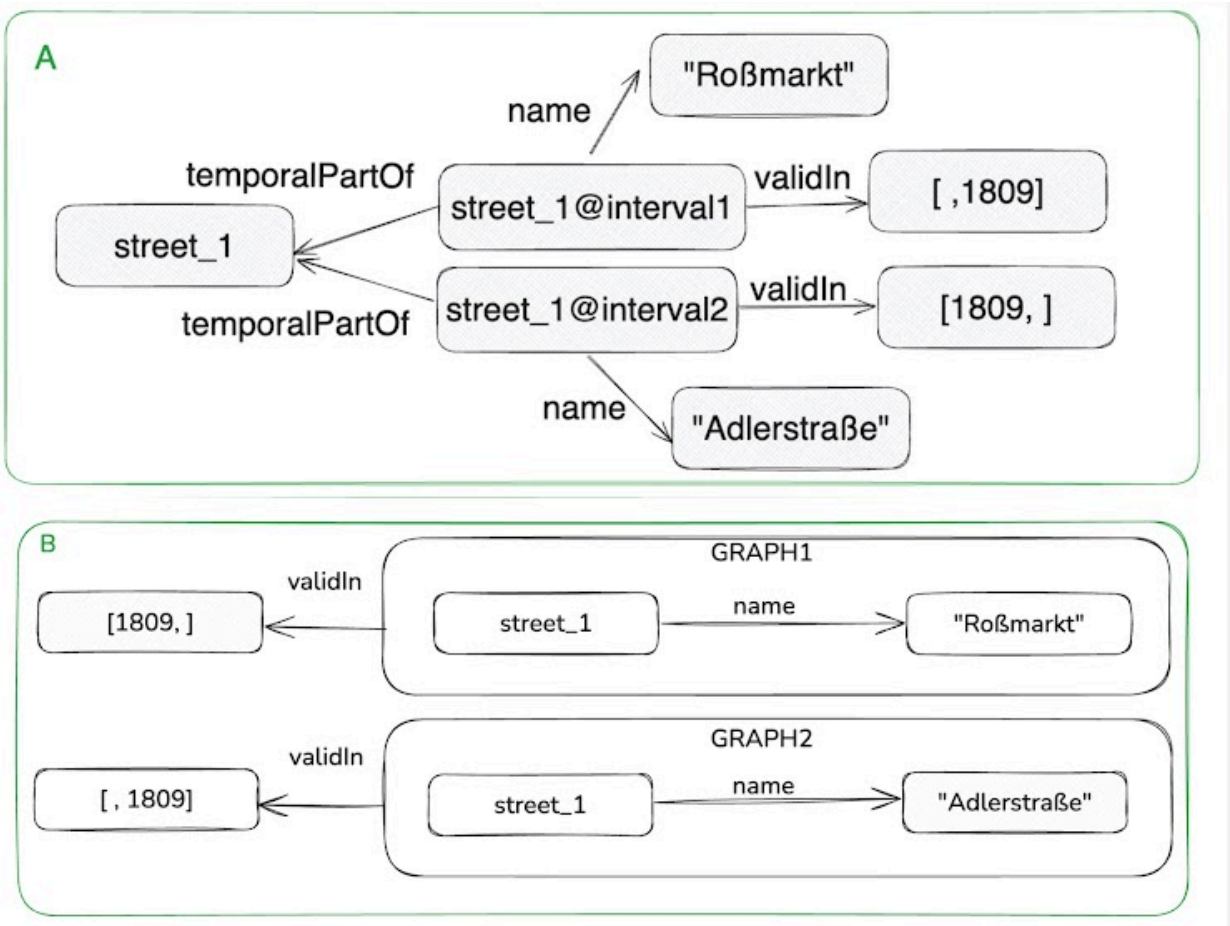
27. Choose your preferable approach *



Mark only one oval.

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28. Why did you prefer one over the other? *

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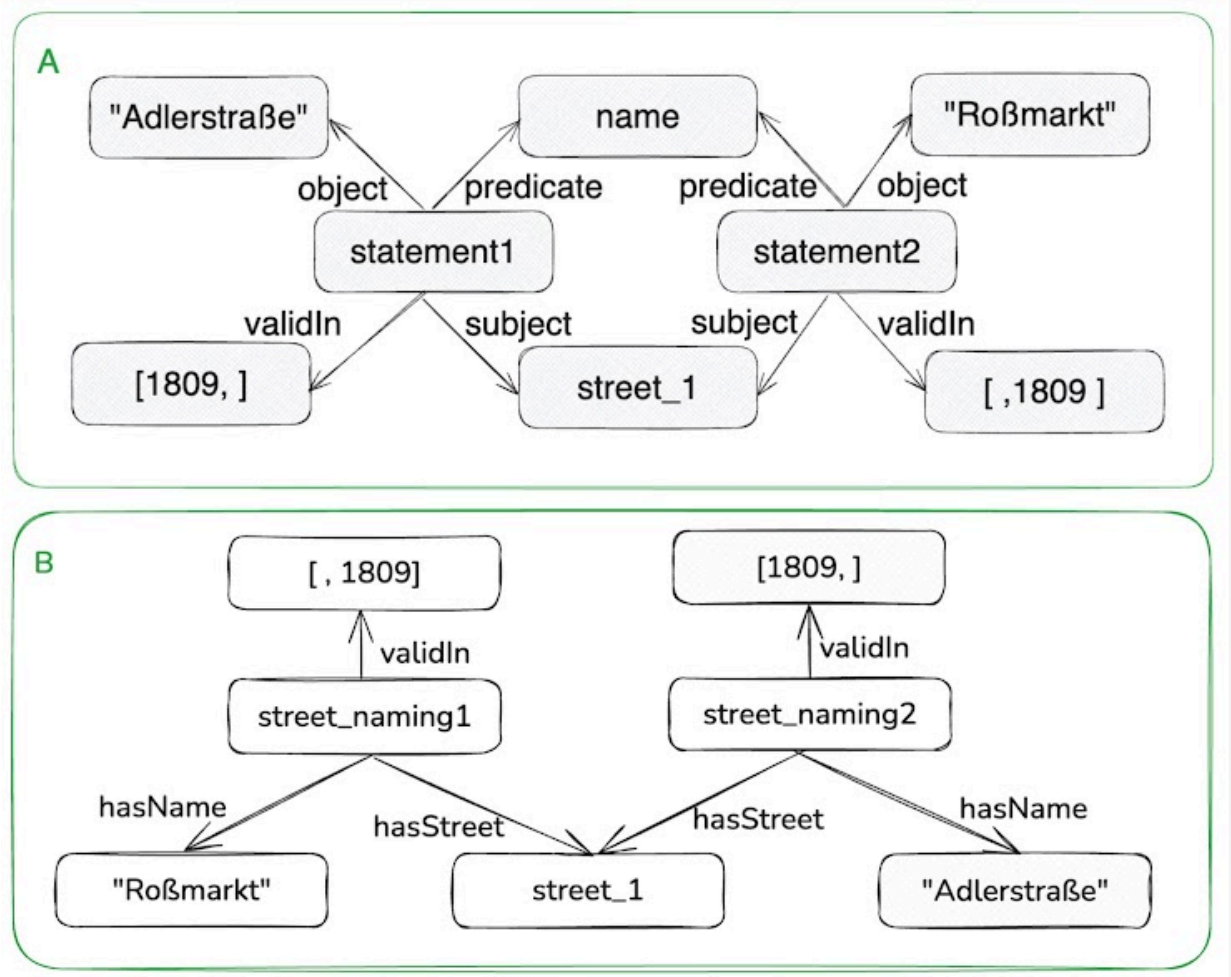

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- A
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30. Why did you prefer one over the other? *

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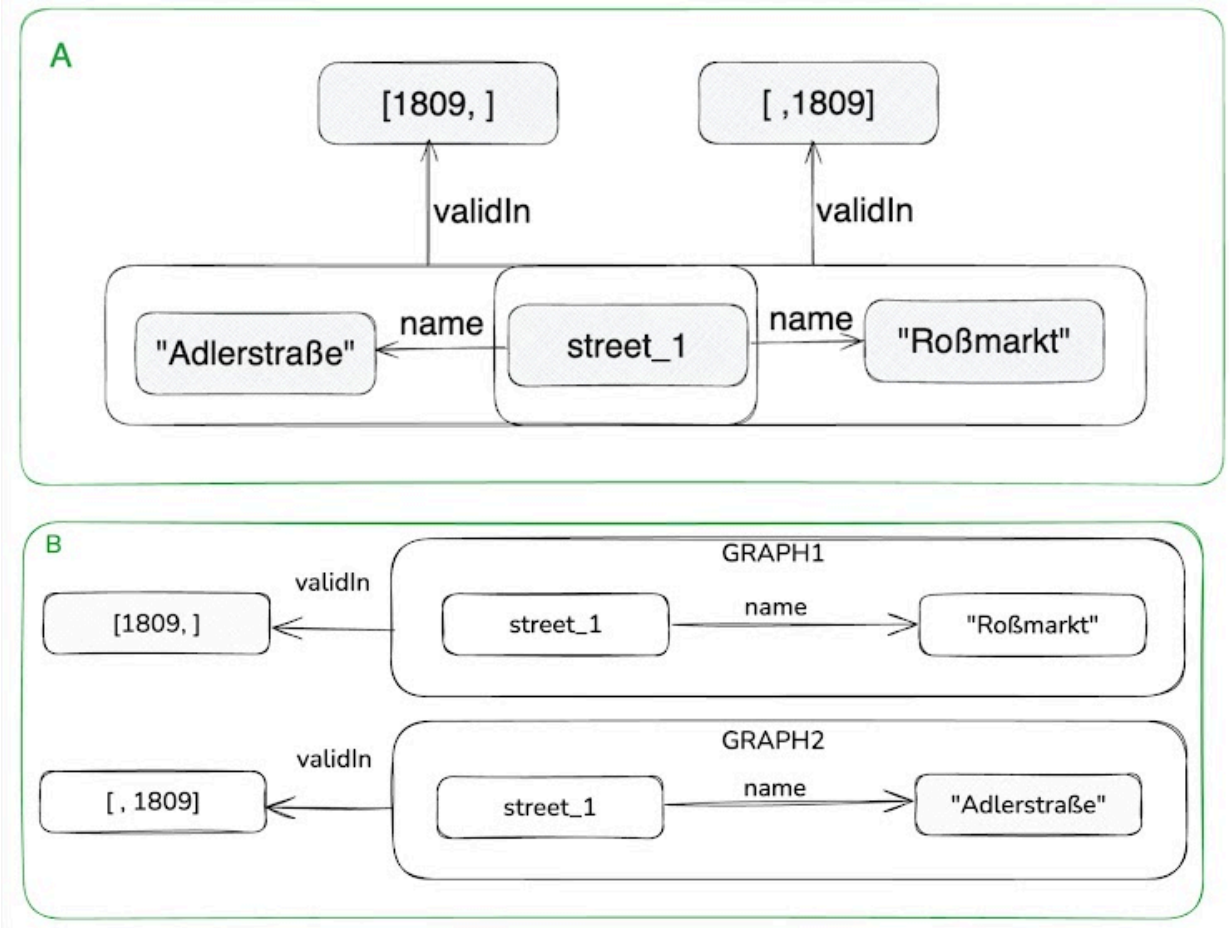
31. Choose your preferable approach *



Mark only one oval.

- A
- B

32. Why did you prefer one over the other? *

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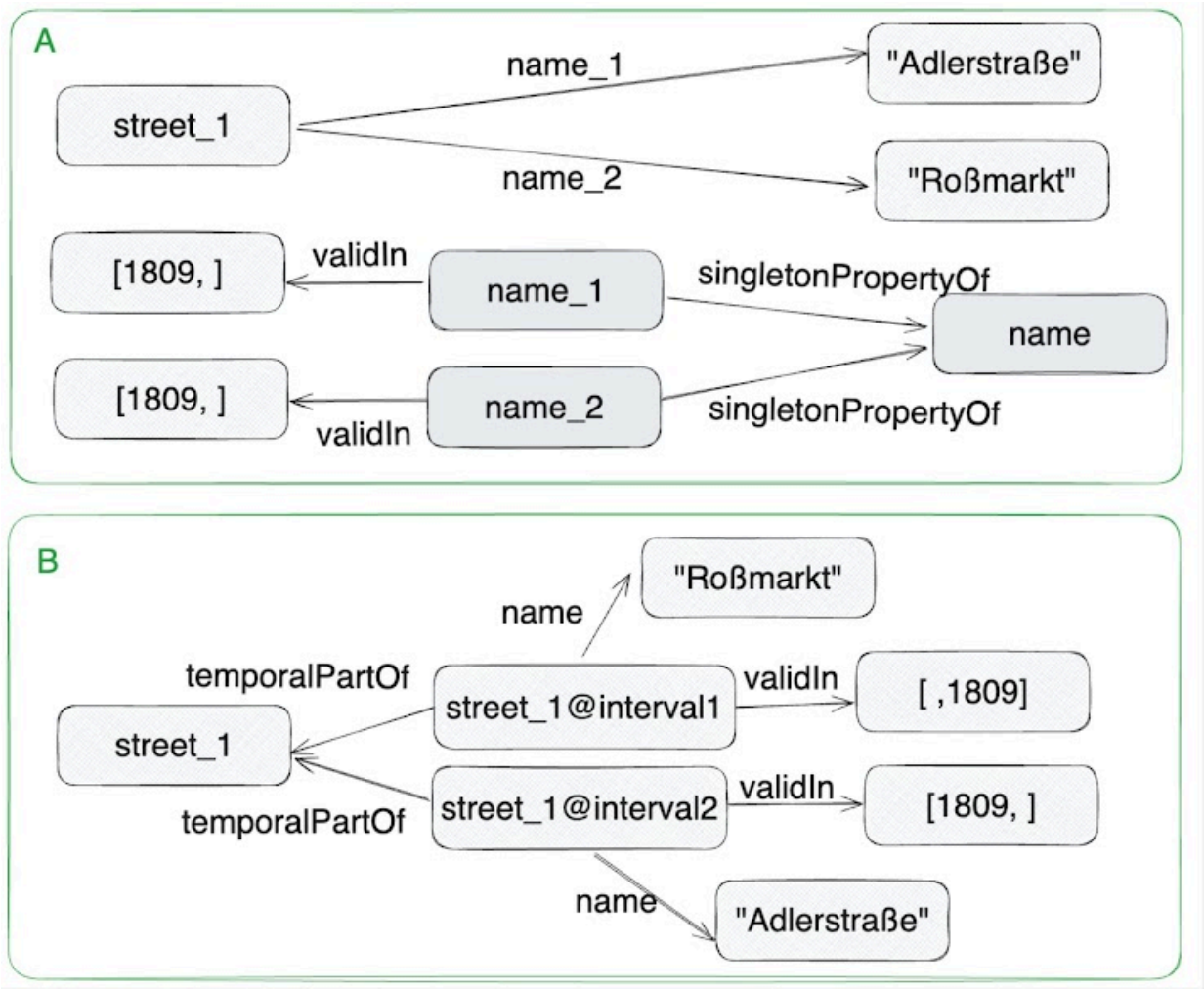
33. Choose your preferable approach *



Mark only one oval.

- A
- B

34. Why did you prefer one over the other? *

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- More intuitive (the choice aligned with my instincts)
- Other: _____

Hurray!

Thank you for your participation! If you have any questions, ideas, or feedback you'd like to share, please don't hesitate to reach out to us at oleksandra.bruns@fiz-karlsruhe.de.

35.

Your participation is completely anonymized. If you wish to receive the results of the study once it's published, feel free to share your email address with us, and we'll ensure to reach out to you!

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