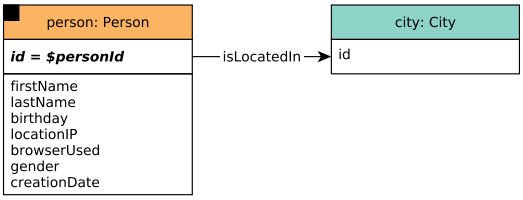
Interactive / short / 1

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 1
title	Profile of a person
pattern	
desc.	Given a start Person, retrieve their first name, last name, birthday, IP address, browser, and city of residence.

params

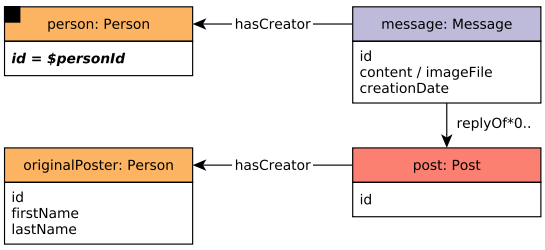
1	personId	ID	

result

1	person.firstName	String	R	
2	person.lastName	String	R	
3	person.birthday	Date	R	
4	person.locationIP	String	R	
5	person.browserUsed	String	R	
6	city.id	ID	R	
7	person.gender	String	R	
8	person.creationDate	DateTime	R	

Interactive / short / 2

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 2
title	Recent messages of a person
pattern	
desc.	Given a start Person, retrieve the last 10 Messages created by that user. For each Message, return that Message, the original Post in its conversation (`post`), and the author of that Post (`originalPoster`). If any of the Messages is a Post, then the original Post (`post`) will be the same Message, i.e. that Message will appear twice in that result.

params

1	personId	ID	

result

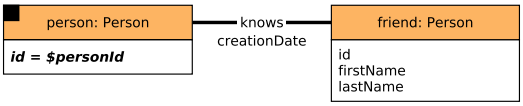
1	message.id	ID	R	
2	message.content or message.imageFile (for photos)	Text	R	
3	message.creationDate	DateTime	R	
4	post.id	ID	R	
5	originalPoster.id	ID	R	
6	originalPoster.firstName	String	R	
7	originalPoster.lastName	String	R	

sort

1	message.creationDate	↓	
2	message.id	↓	

Interactive / short / 3

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 3
title	Friends of a person
pattern	
desc.	Given a start Person, retrieve all of their friends, and the date at which they became friends.

params

1	personId	ID	

result

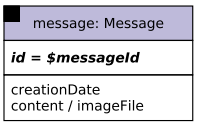
1	friend.id	ID	R	
2	friend.firstName	String	R	
3	friend.lastName	String	R	
4	knows.creationDate	DateTime	R	

sort

1	knows.creationDate	↓	
2	friend.id	↑	

Interactive / short / 4

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 4
title	Content of a message
pattern	
desc.	Given a Message, retrieve its content and creation date.

params

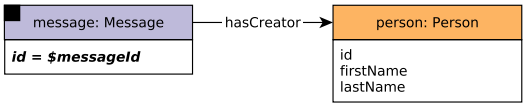
1	messageId	ID	

result

1	message.creationDate	DateTime	R	messageCreationDate
2	message.content or message.imageFile (for photos)	Text	R	messageContent

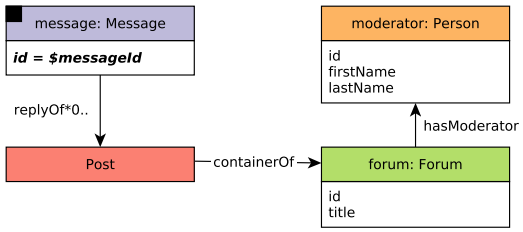
Interactive / short / 5

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 5
title	Creator of a message
pattern	
desc.	Given a Message, retrieve its author.
params	1 messageId ID
result	1 person.id ID R 2 person.firstName String R 3 person.lastName String R

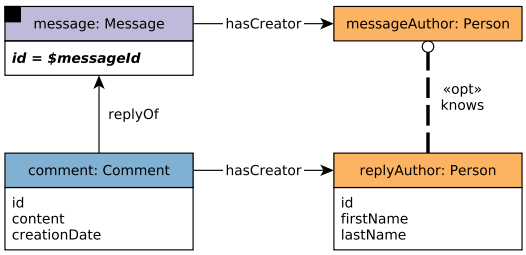
Interactive / short / 6

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 6
title	Forum of a message
pattern	
desc.	Given a Message, retrieve the Forum that contains it and the Person that moderates that Forum. Since Comments are not directly contained in Forums, for Comments, return the Forum containing the original Post in the thread which the Comment is replying to.
params	1 messageId ID
result	1 forum.id ID R 2 forum.title Long String R 3 moderator.id ID R 4 moderator.firstName String R 5 moderator.lastName String R

Interactive / short / 7

IS 1
IS 2
IS 3
IS 4
IS 5
IS 6
IS 7

query	Interactive / short / 7
title	Replies of a message
pattern	
desc.	Given a Message, retrieve the (1-hop) Comments that reply to it. In addition, return a boolean flag `knows` indicating if the author of the reply (`replyAuthor`) knows the author of the original message (`messageAuthor`). If author is same as original author, return False for `knows` flag.

params

1	`messageId`	ID	

result

1	`comment.id`	ID	R	
2	`comment.content`	Text	R	
3	`comment.creationDate`	DateTime	R	
4	`replyAuthor.id`	ID	R	
5	`replyAuthor.firstName`	String	R	
6	`replyAuthor.lastName`	String	R	
7	`knows`	Boolean	C	True if the `knows` edge exists between the `replyAuthor` and the `messageAuthor` nodes, False otherwise (including the case when the two nodes are the same)

sort

1	`comment.creationDate`	↓	
2	`replyAuthor.id`	↑	