IS 1	query	Interactive / short / 1		
IS 2	title	Profile of a person		
IS 3		_		
IS 4		<u>-</u>	person: Person	city: City
IS 5				isLocatedIn → id
IS 6	pattern	firstNa lastNa	ime	
IS 7		birthda locatio		
		gende		
	desc.	Given a start Person, retrieve t	their first name	e, last name, birthday, IP address, browser, and city
	desc.	of residence.		
		1 personId ID		
	params	personid ID		
		c: IN	C	
	result		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	e/short/2
IS 1	query	Interactive / short / 2
IS 2	title	Recent messages of a person
IS 3 IS 4 IS 5 IS 6 IS 7	pattern desc.	person: Person id = \$personId originalPoster: Person id firstName lastName lastName lastName lastName lastName 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).
	params	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. 1 personId ID
	result	1 message.id ID R message.content or 2 message.imageFile (for photos) 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 ↓

message.id

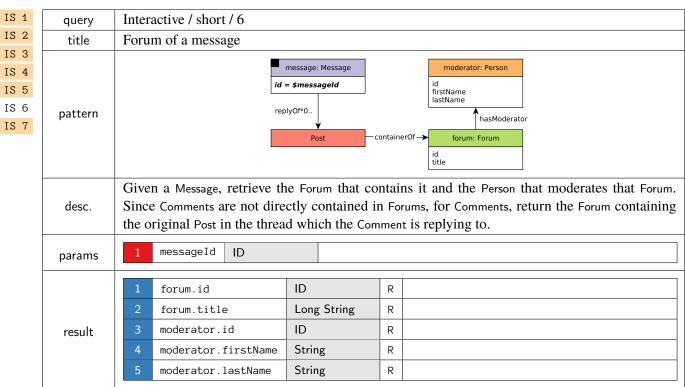
IS 1	query	Interactive / short / 3		
IS 2	title	Friends of a person		
IS 3				
IS 4	pattern	person: Person knows friend: Person id = SpersonId id = SpersonId		
IS 5	pattern	id = \$personId id firstName lastName		
IS 6				
IS 7	desc.	Given a start Person, retrieve all of their friends, and the date at 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	query	Interactive / short / 4		
IS 2	title	Content of a message		
IS 3 IS 4 IS 5 IS 6	pattern	<pre>id = \$message! id = \$message!d creationDate content / imageFile</pre>		
IS 7	desc.	Given a Message, retrieve its content and creation date.		
	params	1 messageId ID		
		1 message.creationDate		
	result	message.content or message.imageFile (for photos) R messageContent		

IS 1	query	Interactive / short / 5		
IS 2	title	Creator of a message		
IS 3				
IS 4	nattorn	message: Message hasCreator person: Person		
IS 5	pattern	id = \$messageId id firstName lastName		
IS 6		lastivame		
IS 7	desc.	Given a Message, retrieve its author.		
	params	1 messageId ID		
		1 person.id ID R		
	result	2 person.firstName String R		
		3 person.lastName String R		

Interactive / short / 6



IS 1	query	Interactive / short / 7
IS 2	title	Replies of a message
IS 3 IS 4 IS 5 IS 6 IS 7	pattern	message: Message id = \$messageId replyOf comment: Comment id content creationDate hasCreator replyAuthor: Person id firstName lastName
	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 D
	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 ↑