IS 1	query	Interactive / short / 1
IS 2	title	Profile of a person
IS 3	titic	
IS 4		person: Person city: City
IS 5		id = \$personId —isLocatedIn → id
IS 6	pattern	firstName lastName birthday
IS 7		locationIP browserUsed
		gender creationDate
	desc.	Given a start Person, retrieve their first name, last name, birthday, IP address, browser, and city of residence.
	params	1 personId ID
		1 person.firstName String R
	result	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	query	Interactive / short / 2	
IS 2 IS 3 IS 4 IS 5 IS 6 IS 7	title	Recent messages of a person	
	pattern	person: Person id = \$personId id content / imageFile creationDate replyOf*0 originalPoster: Person id firstName lastName	
	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 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 ↓	

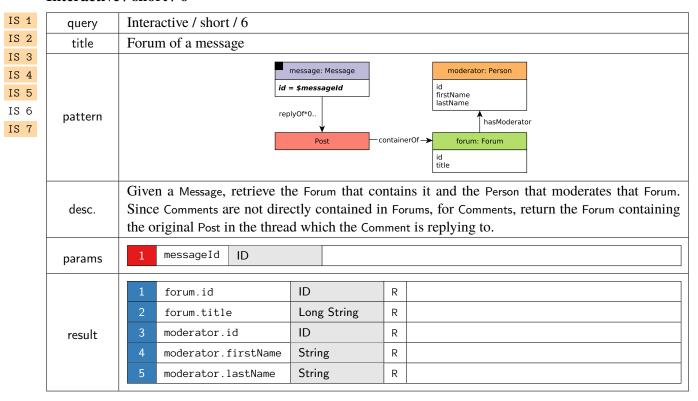
IS 1	query	Interactive / short / 3
IS 2	title	Friends of a person
IS 3		
IS 4	pattern	person: Person knows friend: Person id = SpersonId id = SpersonId
IS 5	pattern	id = \$personId id firstName lastName
IS 6		
IS 7	desc.	Given a start Person, retrieve all of their friends, and the date at which they became friends.
	params	1 personId ID
		1 friend.id ID R
	1.	2 friend.firstName String R
	result	3 friend.lastName String R
		4 knows.creationDate DateTime R
	sort	1 knows.creationDate ↓
	3311	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	message: Message id = \$messageId creationDate content / imageFile
IS 7	desc.	Given a Message, retrieve its content and creation date.
	params	1 messageId D
		1 message.creationDate
	result	message.content or message.imageFile (for Text R messageContent photos)

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 IS 2 IS 3 IS 4 IS 5 IS 6 IS 7	query	Interactive / short / 7
	title	Replies of a message
	pattern	message: Message id = \$messageId replyOf comment: Comment id content creationDate messageAuthor: 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
		1 comment.id ID R
		2 comment.content Text R
		3 comment.creationDate DateTime R
		4 replyAuthor.id ID R
	result	5 replyAuthor.firstName String R
		6 replyAuthor.lastName String R
		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 ↑