IS 1	query	Interactive / short / 1
IS 2	title	Profile of a person
IS 3 IS 4 IS 5 IS 6 IS 7	pattern	person: Person id = \$personId firstName lastName birthday locationIP browserUsed gender creationDate
	description	Given a start Person with ID \$personId, 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

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	hasCreator————————————————————————————————————
description	Given a start Person with ID \$personId, 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 Text R 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	<pre>1 message.creationDate ↓ 2 message.id ↓</pre>
limit	10

IS 1	query	Interactive / short / 3
IS 2	title	Friends of a person
IS 3		
IS 4		person: Person
IS 5	pattern	id = \$personId id firstName
IS 6		lastName
IS 7	description	Given a start Person with ID \$personId, retrieve all of their friends, and the date at which they
	description	became friends.
	params	1 \$personId ID
		1 friend.id ID R
		2 friend.firstName String R
	result	3 friend.lastName String R
		4 knows.creationDate DateTime R
		1 knows.creationDate
	sort	
		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	description	Given a Message with ID \$messageId, retrieve its content and creation date.				
	params	1 \$messageId ID				
	result	1 message.creationDate				

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

Interactive / short / 6

IS 1		T. 4 4			
	query	Interactive / short / 6			
IS 2	title	Forum of a message			
IS 3 IS 4 IS 5 IS 6 IS 7	pattern		message: Message = \$messageId plyOf*0	containerOf—	moderator: Person id firstName lastName hasModerator forum: Forum id title
	description	erates that Forum. Since Com	nments are not di	rectly co	um that contains it and the Person that mod- ontained in Forums, for Comments, return the th the Comment is replying to.
	params	1 \$messageId ID			
	result	<pre>forum.id forum.title forum.title moderator.id moderator.firstName moderator.lastName</pre>	ID Long String ID String String	R R R R R	

IS :
IS :
IS :
IS :

IS

query		active / short / 7				
title	Repl	ies of a message				
pattern		id = \$n	mment: Cor	plyOf	asCreato asCreato	«opt» knows
description	In ad the a	ldition, return a boolean f	lag kn	ows indica	ting	1-hop) Comments that reply to it. if the author of the reply (replyAuthor) know). If author is same as original author, return
params	1	\$messageId ID				
params	1	\$messageId ID comment.id	ID		R	
params	1 2	-	Text		R	
params	_	comment.id comment.content comment.creationDate	Text	: eTime		
params	2	comment.id comment.content comment.creationDate replyAuthor.id	Text		R	
params	2	comment.id comment.content comment.creationDate replyAuthor.id replyAuthor.firstName	Text Date ID Strir	eTime	R R	
<u>'</u>	2 3 4	comment.id comment.content comment.creationDate replyAuthor.id	Text Date	eTime	R R R	
<u>'</u>	2 3 4 5	comment.id comment.content comment.creationDate replyAuthor.id replyAuthor.firstName	Text Date ID Strir	eTime ng	R R R 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)
<u>'</u>	2 3 4 5 6	comment.id comment.content comment.creationDate replyAuthor.id replyAuthor.firstName replyAuthor.lastName	Text Date ID Strir	eTime ng	R R R R	replyAuthor and the messageAuthor nodes, False otherwise (including the case when