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  city: City  id		
	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		

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  wessage: Message  id description  content / imageFile creationDate  replyOf*0  originalPoster: Person id firstName lastName  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   D			
	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 ↓			
	limit	10			

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

IS 1	anon,	Interactive / short / 4		
	query	interactive / short / 4		
IS 2	title	Content of a message		
IS 3				
IS 4		message: Message		
IS 5	pattern	id = \$messageId		
IS 6		creationDate content / imageFile		
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  R messageContent		

IS 1	query	Interactive / short / 5		
IS 2	title	Creator of a message		
IS 3 IS 4 IS 5	pattern	message: Message  id = \$messageId  id firstName		
IS 6		lastName		
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		

IS 1	query	Interactive / short / 6			
IS 2	title	Forum of a message			
IS 3 IS 4 IS 5 IS 6 IS 7	pattern	id =	message: Message  = \$messageId  lyOf*0  Post	ontainerO	moderator: Person  id firstName lastName  hasModerator  f forum: Forum  id title
	desc. Given a Message, retrieve the Forum that contains it and the Person that moderates Since Comments are not directly contained in Forums, for Comments, return the Forum the original Post in the thread which the Comment is replying to.		ns, for Comments, return the Forum containing		
	params	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 1	query	Interactive / short / 7			
IS 2 IS 3 IS 4 IS 5 IS 6 IS 7	title	Replies of a message			
	pattern	message: Message  id = \$messageId  replyOf  comment: Comment  id content creationDate  hasCreator  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			
	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  Boolean C  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 ↑			