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1	query	Interactive / short / 1
2	title	Profile of a person
<ul><li>3</li><li>4</li><li>5</li><li>6</li><li>7</li></ul>	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

	interactive/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	person: Person  id = \$personId  hasCreator  message: Message  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	
		1 message.id ID R	
		message.content or message.imageFile (for Text R photos)	
	result	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	
		1 message.creationDate	
	sort	2 message.id $\downarrow$	

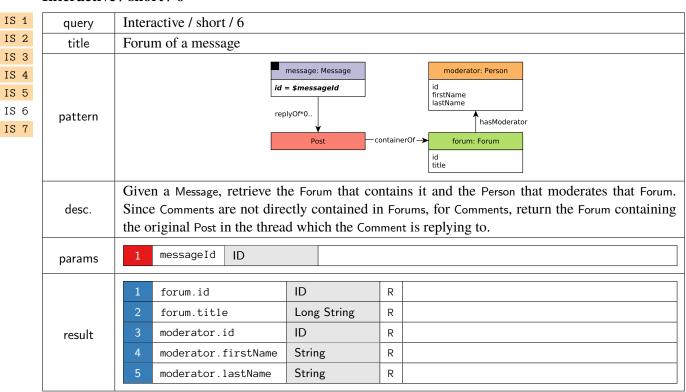
IS 1	query	Interactive / short / 3
IS 2	title	Friends of a person
IS 3		
IS 4		person: Person knows friend: Person creationDate
IS 5	pattern	id = \$personId id firstName
IS 6		lastName
IS 7	desc.	Given a start Person, retrieve all of their friends, and the date at which they became friends.
	params	1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

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