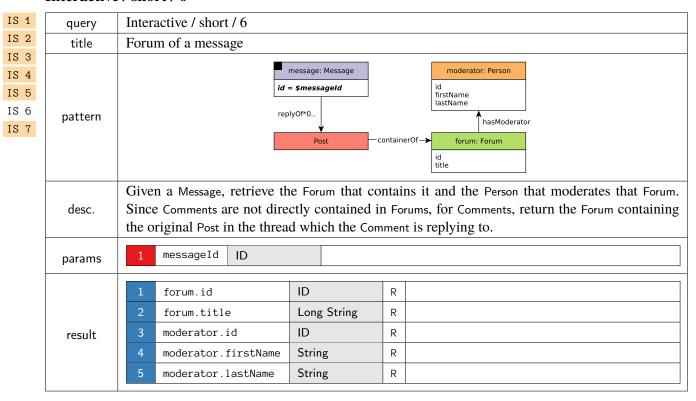
Г		
IS 1	query	Interactive / short / 1
IS 2	title	Profile of a person
IS 3		
IS 4		person: Person city: City
IS 5		id = \$personId —isLocatedIn → id
IS 6	pattern	firstName lastName birthday
IS 7	desc.	locationIP browserUsed
		gender creationDate
		Given a start Person, retrieve their first name, last name, birthday, IP address, browser, and city
	acse.	of residence.
		1 personId ID
	params	personia ID
		1 person.firstName String R
		2 person.lastName String R
	result	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 wessage: Message id 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 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	1 message.creationDate ↓ 2 message.id ↓	

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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 creationDate id firstName 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
	result	2 friend.firstName String R
		3 friend.lastName String R
		4 knows.creationDate DateTime R
	sort	1 knows.creationDate ↓ 2 friend.id ↑

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 ID
	result	1 message.creationDate

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



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1 2 3 4 5 6 7	query	Interactive / short / 7
	title	Replies of a message
	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 ID
	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 ↑