

## Interactive / complex / 8

IC 1	query	Interactive / complex / 8			
IC 2	title	Recent replies			
IC 3	pattern	 <pre> graph TD     P[person: Person id = \$personId]     M[Message]     C[comment: Comment id content creationDate]     CA[commentAuthor: Person id firstName lastName]      M -- hasCreator --&gt; P     C -- hasCreator --&gt; CA     M -- replyOf --&gt; C           </pre>			
IC 4	desc.	Given a start Person, find the most recent Comments that are replies to Messages of the start Person. Only consider direct (single-hop) replies, not the transitive (multi-hop) ones. Return the reply Comments, and the Person that created each reply Comment.			
IC 5	params	1	personId	ID	
IC 6	result	1	commentAuthor.id	ID	R
IC 7		2	commentAuthor.firstName	String	R
IC 8		3	commentAuthor.lastName	String	R
IC 9		4	comment.creationDate	DateTime	R
IC 10		5	comment.id	ID	R
IC 11		6	comment.content	Text	R
IC 12	sort	1	comment.creationDate	↓	
IC 13		2	comment.id	↑	
IC 14	limit	20			
	CPs	2.4, 3.3, 5.3			
	relevance	This query looks for paths of length two, starting from a given Person, going through its created Messages and finishing at their replies. In this query there is temporal locality between the replies being accessed. Thus the top-k order by this can interact with the selection, i.e. do not consider older Posts than the 20th oldest seen so far.			