Interactive / complex / 4

IC 1	query	Interactive / complex / 4						
IC 2	title	New topics						
IC 3	pattern		Person	knows	person: Person	knows	friend: Person	
IC 5			↑		id = \$personId		«opt»	
IC 6			hasCreator			_	hasCreator postCount = count	
IC 7		V		«nea» 👟		٦. ـ [•	
IC 8		creationDate	<pre>Post < \$startDate</pre>	«neg» hasTag ➤	tag: Tag	← hasTag ←	Post \$startDate ≤ creationDate <	
IC 9							\$startDate + \$durationDays	
IC 10								
IC 11	description description Given a start Person with ID \$personId\$, find Tags that are attached to Posts that were created by that Person's friends. Only include Tags that were attached to friends' Posts created within a given time interval [\$startDate, \$startDate + \$durationDays) (closed-open) and that were never attached to friends' Posts created before this interval.							
IC 12								
IC 13								
IC 14v1	to menus Posts created before this interval.							
IC 14v2		1 \$personId ID						
		2 \$startDate Date						
	params				Duration of requested period, in days. The interval			
		3 \$durationDays 32-bit N		nteger	[\$startDate, \$startDate + \$durationDays) is closed-open			
		1 tag.name	Long String	String R				
	result	2 postCount	32-bit Intege	r A		made w	ithin the given time interval	
		postodure	32-bit integer		that have tag			
			, [
	sort	1 postCount	↓					
		2 tag.name	↑					
	limit 10							
	CPs	CPs 2.3, 8.2, 8.5						
	relevance	This query looks for paths of length two, starting from a given Person, moving to Posts and then to Tags. It tests the ability of the query optimizer to properly select the usage of hash joins or index based joins, depending on the cardinality of the intermediate results. These cardinalities are clearly affected by the input Person, the number of friends, the variety of Tags, the time interval and the number of Posts.						