Interactive / complex / 4

<table>
<tr><td>IC 1</td></tr>
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	query	Interactive / complex / 4
	title	New topics
	pattern	
	desc.	Given a start Person (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, and that were never attached to friends' Posts created before this interval.

Sidebar labels: IC 1, IC 2, IC 3, IC 4, IC 5, IC 6, IC 7, IC 8, IC 9, IC 10, IC 11, IC 12, IC 13, IC 14

params

1	Person.id	ID	personId
2	startDate	Date	startDate
3	duration	32-bit Integer	durationDays – Duration of requested period, in days. The interval [startDate, startDate + duration) is closed-open

result

1	Tag.name	String	R	tagName
2	postCount	32-bit Integer	A	postCount – Number of Posts made within the given time interval that have this Tag

sort

1	postCount	↓	
2	Tag.name	↑	

limit	10
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.