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query	BI / read / 17				
title	Information propagation analysis				
pattern	<pre>graph TD person1[person1: Person] -- hasCreator --> message1[message1: Message] message1 -- hasTag --> tag[tag: Tag] message1 -- replyOf*0.. --> post1[post1: Post] forum1[forum1: Forum] -- containerOf --> post1 forum1 -- hasMember --> person2[person2: Person] person2 -- hasCreator --> person3[person3: Person] person2 -- hasTag --> tag comment[comment: Comment] -- hasCreator --> person3 comment -- replyOf --> message2[message2: Message] message2 -- count distinct --> post2[post2: Post] post2 -- containerOf --> forum2[forum2: Forum] forum2 -- «neg» hasMember --> person1 tag -- hasTag --> message2 tag -- hasTag --> comment</pre>				
desc.	<p>This query aims to identify instances of “information propagation” when a Person (person1) submits a Message (message1) with a given Tag (tag) to a Forum (forum1). This is read by other members of forum1, Persons person2 and person3. Some time later (specified by the delta parameter), these persons have a discussion with the same tag in a different Forum (forum2) where person1 is not a member. The discussion consists of a Message (message2) by person2 and a direct reply Comment (comment) by person3.</p> <p>Return IDs of person1 with the number of interactions their Messages (might have) caused.</p>				
params	1	tag	Long String	Tags with a similar amount of Messages are selected	
	2	delta	32-bit Integer	Measured in hours, selected to be between 8 and 16 hours.	
result	1	person1.id	ID	R	
	2	messageCount	32-bit Integer	A	
sort	1	messageCount	↓		
	2	person1.id	↑		
limit	10				
CPs	2.1, 2.3, 8.1				