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BI 1	query	BI / read / 16
BI 2	title	Fake news detection
BI 3		
BI 4		For \$tagX/\$dayX in [tagA/dateA, tagB/dateB], compute scoreX = count(messageX)
BI 5		1. Create an induced subgraph of Persons who created a Message with Tag \$tagX on \$dateX
BI 6		tag: Tag hasTag hasCreator person: Person
BI 7		name = \$tagX day(creationDate) = \$dateX
BI 8		2. In the subgraph, count the Messages (using the same conditions) from People with ≤ \$maxKnowsLimit friends
BI 9	pattern	count(messageX)
BI 10		tag: Tag messageX: Message hasCreator person: Person
BI 11		name = \$tagX day(creationDate) = \$dateX count ≤ \$maxKnowsLimit
BI 12		«opt» knows
BI 13		Person
DI 14 BI 15		
BI 16		Given two Tag/date pairs (\$tagA/\$dateA and \$tagB/\$dateB), for each pair \$tagX/\$dateX:
BI 17		
BI 18		• Create an induced subgraph between Persons where for each pair of Persons person1/person2,
BI 19		both have created a Message on the day of \$dateX with Tag \$tagX.
BI 20	description	• In the induced subgraph, only keep pairs of Persons who have at most maxknowsLimit mends (in the induced subgraph)
		• For these Persons, count the number of Messages created on \$datoX with Tag \$tagX
		Tor meser ersons, count the number of wessages created on quater with rag quagr.
		Return Persons who had at least one Messages for both \$tagA/\$dateA and \$tagB/\$dateB ranked by
		their total number of Messages (descending).
		1 \$tagA \$tagA/\$dateA, \$tagB/\$dateB are both selected to be a flashmob Tag/date combination (b) \$tagA/\$dateA, \$tagB/\$dateB are both selected to be a non-flashmob Tag/date combination
	params	2 \$dateA Date
		3 \$tagB Long String
		4 \$dateB Date
		5 \$maxKnowsLimit 32-bit Integer Selected between 3 and 6
		1 person.id ID R
	result	2 messageCountA 32-bit Integer A Message count for \$tagA/\$dateA
	result	3 messageCountB 32-bit Integer A Message count for \$tagB/\$dateB
		messageCountA +
	sort	messageCountB V
		2 person.id 1
	limit	20
	CPs	53 84 85
		There are two major ways to compute this query: (1) create the induced subgraph as suggested by the specification
	relevance	(either as a view or in materialized form), or (2) skip creating the induced subgraph and perform on-the-fly check for the number of friends (who also posted at least one Message with the given Tag on the given date). The latter approach is easier to express in systems which do not provide graph views but might result in redundant computations (the query engine might repeatedly check whether a Person has at least one Message that satisfies the conditions).