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BI 1	query	BI / read / 16
BI 2	title	Fake news detection
BI 3		For \$tagX/\$dayX in [tagA/dateA, tagB/dateB], compute scoreX = count(messageX)
BI 5		Create an induced subgraph of Persons who created a Message with Tag \$tagX on \$dateX
BI 6		tag: Tag Message hasCreator
BI 7		name = \$tagX
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 BI 12		name = \$tagX day(creationDate) = \$dateX count ≤ \$maxKnowsLimit
BI 13		«opt» knows
BI 14		Person
BI 15		
BI 16		Given two Tag/date pairs (tagA/dateA and tagB/dateB), for each pair tagX/dateX:
BI 17		• Create an induced subgraph between Persons where for each pair of Persons person1/person2,
BI 18		both have created a Message on the day of dateX with Tag tagX.
BI 19 BI 20	desc.	• In the induced subgraph, only keep pairs of Persons who have at most maxKnowsLimit friends
D1 20	uesc.	(in the induced subgraph).
		• For these Persons, count the number of Messages created on dateX with Tag tagX.
		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 Long String
	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
		3 messageCountB 32-bit Integer A Message count for tagB/dateB
		messageCountA +
	cort	1 messageCountB ↓
	sort	2 person.id ↑
	limit	20
	CPs	
	Crs	5.3, 8.4, 8.5 There are two major ways to compute this guarty (1) greate the induced subgraph as suggested by the specification.
		There are two major ways to compute this query: (1) create the induced subgraph as suggested by the specification (either as a view or in materialized form), or (2) skip creating the induced subgraph and perform on-the-fly check
	relevance	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 will might repeatedly check whether a Person has at least one Message that satisfies the conditions).
		(the query engine will imgit repeatedly eneck whether a reison has at least one wiessage that satines the conditions).