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IC 1	query	Interactive / complex / 10
IC 2	title	Friend recommendation
IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 9 IC 10 IC 11 IC 12 IC 13	pattern	rootPerson: Person id = \$id knows*22 birthday cond's id firstName lastName lastName gender common hasCreator hasInterest Tag Post City name City name control name City name rootPerson: Person hasCreator hasInterest Tag Post Tag Post City name countrol name
IC 14	desc.	Given a start Person with id personId, find that Person's friends of friends (person) – excluding the start Person and his/her immediate friends –, who were born on or after the 21st of a given month (in any year) and before the 22nd of the following month. Calculate the similarity between each person and the start Person, where commonInterestScore is defined as follows: • common = number of Posts created by person, such that the Post has a Tag that the start Person, is interested in • uncommon = number of Posts created by person, such that the Post has no Tag that the start Person, is interested in • commonInterestScore = common - uncommon
	params	1 Person.id ID personId 2 month 32-bit Integer month - Between 1 and 12. Implementations may also pass the next month as an additional nextMonth parameter
	result	1 Person.id ID R personId 2 Person.firstName String R personFirstName 3 Person.lastName R personLastName 4 commonInterestScore 32-bit Integer C commonInterestScore 5 Person.gender String R personGender 6 Person-isLocatedIn->City.name String R personCityName
	sort	1 commonInterestScore ↓ 2 Person.id ↑
	limit	10
	CPs	2.3, 3.3, 4.1, 4.2, 5.1, 5.2, 6.1, 7.1, 8.6
	relevance	This query looks for paths of length two, starting from a Person and ending at the friends of their friends. It does widely scattered graph traversal, and one expects no locality of in friends of friends, as these have been acquired over a long time and have widely scattered identifiers. The join order is simple but one must see that the anti-join for "not in my friends" is better with hash. Also the last pattern in the scalar sub-queries joining or anti-joining the Tags of the candidate's Posts to interests of self should be by hash.