Interactive / complex / 11

IC 1	query	Interactive / complex / 11
IC 2	title	Job referral
IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 9 IC 10 IC 11	pattern	person: Person id = \$personId knows*12 otherPerson: Person id firstName lastName year(workFrom) < \$year company: Company name isLocatedIn country: Country name = \$name
IC 13 IC 14	desc.	Given a start Person, find that Person's friends and friends of friends (excluding start Person) who started working in some Company in a given Country, before a given date (year).
	params	1 personId ID 2 countryName String 3 workFromYear 32-bit Integer
	result	1 otherPerson.id ID R 2 otherPerson.firstName String R 3 otherPerson.lastName String R 4 company.name String R 5 workAt.workFrom 32-bit Integer R
	sort	1 workAt.workFrom ↑ 2 otherPerson.id ↑ 3 company.name ↓
	limit	10
	CPs	1.3, 2.3, 2.4, 3.3, 4.2
	relevance	This query looks for paths of length two or three, starting from a Person, moving to friends or friends of friends, and ending at a Company. In this query, there are selective joins and a top-k order by that can be exploited for optimizations.