## Interactive / complex / 11

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query	Interactive / complex / 11
title	Job referral
pattern	person: Person  id = \$personId  knows*12  workAt year(workFrom) < \$year  company: Company name  isLocatedIn  country: Country  name = \$name
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.