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title	Job referral				
pattern	<pre> graph TD Person[id = \$id] -- knows*1..2 --> person["person: Person id firstName lastName"] person -- worksAt --> Organisation[name] subgraph Filter1 [] direction TB F1["year(.worksFrom) < \$year"] end person --> Filter1 Filter1 --> Organisation Organisation -- isLocatedIn --> Country[name = \$name] style Person fill:#f96 style person fill:#f96 style Organisation fill:#fff style Country fill:#fff </pre>				
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	Person.id	ID		
	2	Country.name	String		
	3	year	32-bit Integer		
result	1	Person.id	ID	R	
	2	Person.firstName	String	R	
	3	Person.lastName	String	R	
	4	Person-worksAt->Organisation.name	String	R	
	5	Person-worksAt->.worksFrom	32-bit Integer	R	
sort	1	Person-worksAt->.worksFrom	↑		
	2	Person.id	↑		
	3	Person-worksAt->Organisation.name	↓		
limit	10				
CPs	1.4, 2.3, 2.4, 3.3				
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.				