Interactive / complex / 13

IC 1	query	Interactive / complex / 13
IC 2	title	Single shortest path
IC 3		
IC 4	pattern	Person Person id = \$person1ld id = \$person2ld
IC 5		ia = sperson na knows u Ia = sperson zia
IC 6	description	Given two Persons with IDs \$person11d and \$person21d, find the shortest path between these two
IC 7		Persons in the subgraph induced by the knows edges. Return the length of this path:
IC 8		a 1. we with found
IC 9		• -1: no path found
IC 10		 0: start person = end person 0: moth found (start person (and person))
IC 11		• > 0: path found (start person ≠ end person)
IC 12		
IC 13	params	In SNB Interactive v2, this query has two variants:
IC 14v1		(b) Guaranteed that there is no path between the two
IC 14v2		1 \$person1Id ID Persons
		(b) Guaranteed that there is a 4-hop path between the two
		Persons
		2 \$person2Id ID
	result	1 shortestPathLength 32-bit Integer C
	CPs	3.3, 7.2, 7.3, 7.5, 7.8, 8.1, 8.6
	relevance	This query looks for a variable length path, starting at a given Person and finishing at an another given Person. Proper cardinality estimation and search space pruning, will be crucial. This query also allows for possible parallel implementations.