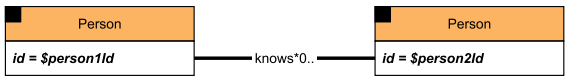
Interactive / complex / 13

IC 1
IC 2
IC 3
IC 4
IC 5
IC 6
IC 7
IC 8
IC 9
IC 10
IC 11
IC 12
IC 13
IC 14v1
IC 14v2

query	Interactive / complex / 13
title	Single shortest path
pattern	
description	Given two Persons with IDs `$person1Id` and `$person2Id`, find the shortest path between these two Persons in the subgraph induced by the `knows` edges. Return the length of this path: • −1: no path found • 0: start person = end person • > 0: path found (start person ≠ end person)
params	1 `$person1Id` ID — In SNB Interactive v2, this query has two variants: `(b)` Guaranteed that there is no path between the two Persons `(b)` Guaranteed that there is a 4-hop path between the two Persons 2 `$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.