## BI / read / 25

query	BI / read / 25
title	Weighted paths
pattern	For each consecutive Person nodes on this path, calculate their weight. Also calculate these for reverse cases with personA and personB swapped.    person1: Person
desc.	Given two <i>Persons</i> , find all (unweighted) shortest paths between these two <i>Persons</i> , in the subgraph induced by the <i>knows</i> relationship.  Then, for each path calculate a weight. The nodes in the path are <i>Persons</i> , and the weight of a path is the sum of weights between every pair of consecutive <i>Person</i> nodes in the path.  The weight for a pair of <i>Persons</i> is calculated such that  • every reply (by one of the <i>Persons</i> ) to a <i>Post</i> (by the other <i>Person</i> ) contributes 1.0, and  • every reply (by one of the <i>Persons</i> ) to a <i>Comment</i> (by the other <i>Person</i> ) contributes 0.5.  Only consider <i>Messages</i> that were created in a <i>Forum</i> that was created within the timeframe [startDate, endDate].  Return all the paths with shortest length, and their weights.
params	1 person1Id 64-bit Integer 2 person2Id 64-bit Integer 3 startDate Date 4 endDate Date
result	person.id 64-bit Integer[] R Identifiers representing an ordered sequence of the Persons in the path weight
sort	1 weight ↓ The order of paths with the same weight is unspecified
CPs	1.2, 2.1, 2.2, 2.4, 3.3, 5.1, 5.3, 7.2, 7.3