BI / read / 15

BI 1	query	BI / read / 15
BI 2	title	Trusted connection paths through forums created in a given timeframe
BI 2 BI 3 BI 4 BI 5 BI 6 BI 7 BI 8 BI 9 BI 10 BI 11 BI 12 BI 13 BI 14 BI 15 BI 16 BI 17 BI 18 BI 19 BI 20	pattern	Calculate the weight of the shortest path on knows edges between person1 and person2. Edge weights are determined as 1 / (interaction score + 1), where interaction score is the sum of cases #1 and #2 for the Person endpoints of the edge (tried both ways). person1: Person
		hasCreator replyOf
	description	Given two Persons with IDs \$person1Id and \$person2Id, calculate the cost of the weighted shortest path between these two Persons, in the subgraph induced by the knows relationship. The interaction score of a knows edge is calculated based on the interactions of its Person endpoints: • Every direct reply (by one of the Persons) to a Post (by the other Person) is 1.0 point. • Every direct reply (by one of the Persons) to a Comment (by the other Person) is 0.5 points. Only consider Messages that were created in a Forum that was created within the timeframe (interval) [\$startDate, \$endDate]. Note that for Comments, the containing Forum is that of the Post that the comment (transitively) replies to. Also note that interactions are counted both ways. The weight for the shortest path algorithm is determined as \[\frac{1}{interaction score+1}. \] The result of the query is a single number, the cost of the weighted shortest path. If no such path exists, the query should return -1.0.
	params	\$\text{person1Id}\$ ID (a) \text{\$person2Id pair with a distance of 4 hops} (b) \text{\$person2Id pair with a distance of 2 hops} \qua
	result	1 weight 32-bit Float C
	limit	n/a
	CPs	1.2, 2.1, 2.2, 2.4, 3.3, 5.1, 5.3, 7.2, 7.3, 7.6, 7.7, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6