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query	BI / read / 10
title	Experts in social circle

pattern	

description

Given a Person startPerson with ID $personID, find all other Persons (expertCandidatePerson) that live in a given $country and are connected to the startPerson on a *shortest path* with length in range [$minPathDistance, $maxPathDistance] through the knows relation.

For each of these expertCandidatePerson nodes, retrieve all of their Messages that contain at least one Tag belonging to a given $tagClass (direct relation not transitive). For each Message, retrieve all of its Tags.

Group the results by Persons and Tags, then count the Messages by a certain Person having a certain Tag.

params

1	$personId	ID	(a) Persons with an average degree of knows edges are selected (b) Persons who have only one friend and that Person has two friends in total (including the original Person)
2	$country	String	Select mid-sized Countries
3	$tagClass	Long String	TagClasses with a similar degree of hasType edges are selected
4	$minPathDistance	32-bit Integer	3
5	$maxPathDistance	32-bit Integer	4

result

1	expertCandidatePerson.id	ID	R	
2	tag.name	Long String	R	
3	messageCount	32-bit Integer	A	Number of Messages created by that Person containing that Tag

sort

1	messageCount	↓	
2	tag.name	↑	
3	expertCandidatePerson.id	↑	

limit	100
CPs	1.2, 1.3, 2.3, 2.4, 2.6, 3.3, 5.3, 7.1, 7.2, 7.3, 8.1, 8.6