BI / read / 10

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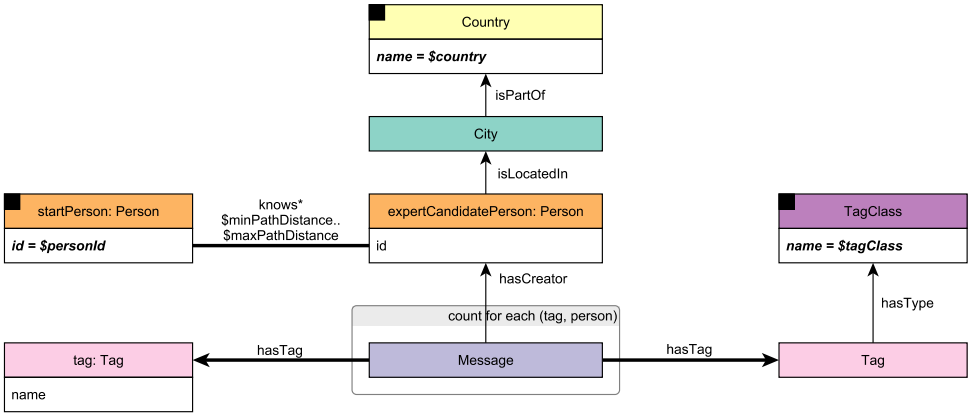
query	BI / read / 10
title	Experts in social circle
pattern	
description	Given a Person `startPerson` with ID `$personID`, find all other Persons (`expertCandidatePerson`) that live in a given `$country` and are connected to the `startPerson` on a *shortest path* with length in range `[$minPathDistance, $maxPathDistance]` through the knows relation. For each of these `expertCandidatePerson` nodes, retrieve all of their Messages that contain at least one Tag belonging to a given `$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