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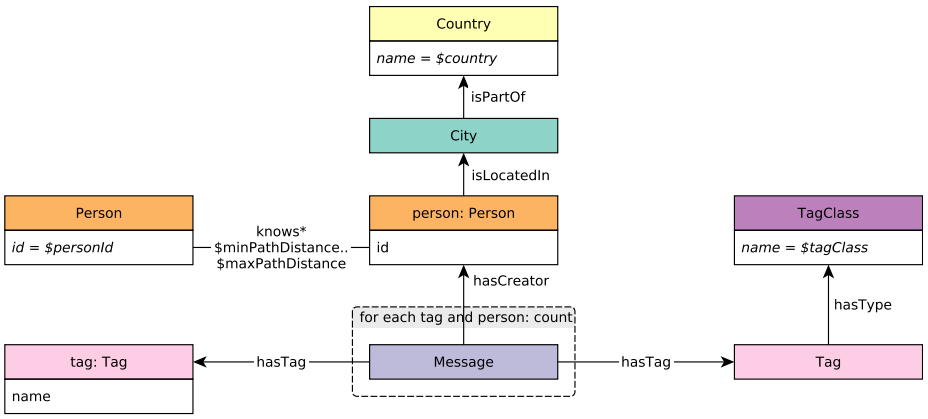
query	BI / read / 16
title	Experts in social circle
pattern	
desc.	Given a Person, find all other Persons that live in a given Country and are connected to given Person by a transitive trail with length in range `[minPathDistance, maxPathDistance]` through the knows relation. In the trail, an edge can be only traversed once while nodes can be traversed multiple times (as opposed to a path which allows repetitions of both nodes and edges). For each of these Persons, 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. (Note: it is not yet decided whether a Person connected to the start Person on a trail with a length smaller than `minPathDistance`, but also on a trail with the length in `[minPathDistance, maxPathDistance]` should be included. The current reference implementations allow such Persons, but this might be subject to change in the future.)

params

1	`personId`	64-bit Integer	
2	`country`	String	
3	`tagClass`	String	
4	`minPathDistance`	32-bit Integer	
5	`maxPathDistance`	32-bit Integer	

result

1	`person.id`	64-bit Integer	R	
2	`tag.name`	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	`person.id`	↑

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