

## BI / read / 10

query	BI / read / 10				
title	Experts in social circle				
pattern					
desc.	<p>Given a Person (startPerson), find all other Persons (expertCandidatePerson) that live in a given Country and are connected to given Person by a <i>shortest path</i> with length in range [minPathDistance, maxPathDistance] through the knows relation.</p> <p>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.</p> <p>Group the results by Persons and Tags, then count the Messages by a certain Person having a certain Tag.</p>				
params	<div>1</div>	personId	ID	The ID of the startPerson. Persons with a similar degree of knows edges are selected	
	<div>2</div>	country	String	Countries with a similar number of Persons are selected	
	<div>3</div>	tagClass	Long String	TagClasses with a similar degree of hasType edges are selected	
	<div>4</div>	minPathDistance	32-bit Integer	1 or 2	
	<div>5</div>	maxPathDistance	32-bit Integer	2 or 3	
result	<div>1</div>	expertCandidatePerson.id	ID	R	
	<div>2</div>	tag.name	Long String	R	
	<div>3</div>	messageCount	32-bit Integer	A	Number of Messages created by that Person containing that Tag
sort	<div>1</div>	messageCount	↓		
	<div>2</div>	tag.name	↑		
	<div>3</div>	expertCandidatePerson.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				