

BI / read / 18

BI 1  
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

query	BI / read / 18				
title	Friend recommendation				
pattern	<div><div>For each person1 compute top-k(person2) based on mutualFriendCount</div><pre>graph LR     person1[person1: Person] -- knows --&gt; Person[Person]     Person -- knows --&gt; person2[person2: Person]     person1 -. «neg» knows .-&gt; person2     Person -- hasInterest --&gt; tag[tag: Tag]     tag -- name = \$tag --&gt; tag     subgraph Calculations         direction TB         C1[mutualFriendCount = count(*)]         C2[name = \$tag]     end</pre></div>				
desc.	<p>For a given Person (person1) and a Tag (tag), recommend new friends (person2) who</p> <ul style="list-style-type: none"><li>• do not yet know person1</li><li>• have many mutual friends with person1</li><li>• are interested in tag.</li></ul> <p>Rank Persons person2 based on the number of mutual friends.</p>				
params	<div><div>1</div><div>person1Id</div><div>ID</div></div>	Persons with a similar amount of friends are selected			
	<div><div>2</div><div>tag</div><div>Long String</div></div>	Tags with a similar amount of Messages are selected			
result	<div><div>1</div><div>person2.id</div><div>ID</div></div>	R			
	<div><div>2</div><div>mutualFriendCount</div><div>32-bit Integer</div></div>	A			
sort	<div><div>1</div><div>mutualFriendCount</div><div>↓</div></div>				
	<div><div>2</div><div>person2.id</div><div>↑</div></div>				
limit	20				
CPs	2.5, 8.1				