

## BI / read / 18

query	BI / read / 18										
title	Friend recommendation										
pattern	<div><div>For each person1 compute top-k(person2) based on mutualFriendCount</div><div><div><div><div>person1: Person</div><div>id = \$person1Id</div><div>«neg» knows</div></div><div>knows</div><div><div>mutualFriendCount = count(*)</div><div>Person</div></div><div>knows</div><div><div>person2: Person</div><div>≠ person1</div><div>id</div></div><div><div>tag: Tag</div><div>name = \$tag</div></div><div>hasInterest</div></div></div></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	<table><tr><td>1</td><td>person1Id</td><td>ID</td><td>Persons with a similar amount of friends are selected</td></tr><tr><td>2</td><td>tag</td><td>Long String</td><td>Tags with a similar amount of Messages are selected</td></tr></table>	1	person1Id	ID	Persons with a similar amount of friends are selected	2	tag	Long String	Tags with a similar amount of Messages are selected		
1	person1Id	ID	Persons with a similar amount of friends are selected								
2	tag	Long String	Tags with a similar amount of Messages are selected								
result	<table><tr><td>1</td><td>person2.id</td><td>ID</td><td>R</td><td></td></tr><tr><td>2</td><td>mutualFriendCount</td><td>32-bit Integer</td><td>A</td><td></td></tr></table>	1	person2.id	ID	R		2	mutualFriendCount	32-bit Integer	A	
1	person2.id	ID	R								
2	mutualFriendCount	32-bit Integer	A								
sort	<table><tr><td>1</td><td>mutualFriendCount</td><td>↓</td><td></td></tr><tr><td>2</td><td>person2.id</td><td>↑</td><td></td></tr></table>	1	mutualFriendCount	↓		2	person2.id	↑			
1	mutualFriendCount	↓									
2	person2.id	↑									
limit	20										
CPs	2.5, 8.1										