

## BI / read / 10

query	BI / read / 10															
title	Central person for a tag															
pattern	<div><div>person.score = (hasInterest ? 100 : 0) + count(message)</div><div><div><div>Tag</div><div>name = \$tag</div></div><div>← hasInterest (?)</div><div><div>person: Person</div><div>id</div></div></div><div>—OR—</div><div><div><div>Tag</div><div>name = \$tag</div></div><div>↑ hasTag</div><div><div><div>message: Message</div><div>creationDate &gt; \$date</div></div><div>→ hasCreator</div><div><div>person: Person</div><div>id</div></div></div><div>count</div></div><div>calculate score for each friend: friendsScore = sum(friend.score)</div><div><div>person:Person</div><div>— knows —</div><div>friend:Person</div></div></div>															
desc.	<p>Given a Tag, find all Persons that are interested in the Tag and/or have written a Message (Post or Comment) with a creationDate after a given date and that has a given Tag. For each Person, compute the score as the sum of the following two aspects:</p> <ul style="list-style-type: none"><li>• 100, if the Person has this Tag as their interest, or 0 otherwise</li><li>• number of Messages by this Person with the given Tag</li></ul> <p>Also, for each Person, compute the sum of the score of the Person’s friends (friendsScore).</p>															
params	<table><tr><td>1</td><td>tag</td><td>String</td><td></td></tr><tr><td>2</td><td>date</td><td>Date</td><td></td></tr></table>	1	tag	String		2	date	Date								
1	tag	String														
2	date	Date														
result	<table><tr><td>1</td><td>person.id</td><td>64-bit Integer</td><td>R</td><td></td></tr><tr><td>2</td><td>score</td><td>32-bit Integer</td><td>A</td><td></td></tr><tr><td>3</td><td>friendsScore</td><td>32-bit Integer</td><td>A</td><td>The sum of the score of the Person’s friends</td></tr></table>	1	person.id	64-bit Integer	R		2	score	32-bit Integer	A		3	friendsScore	32-bit Integer	A	The sum of the score of the Person’s friends
1	person.id	64-bit Integer	R													
2	score	32-bit Integer	A													
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sort	<table><tr><td>1</td><td>score + friendsScore</td><td>↓</td><td></td></tr><tr><td>2</td><td>person.id</td><td>↑</td><td></td></tr></table>	1	score + friendsScore	↓		2	person.id	↑								
1	score + friendsScore	↓														
2	person.id	↑														
limit	100															
CPs	1.2, 2.1, 2.3, 3.2, 8.2, 8.4, 8.5															