

## BI / read / 11

query	BI / read / 11																								
title	Unrelated replies																								
pattern	<pre>graph TD     Country[Country] -- "name = \$country" --- Country     City[City] -- "isPartOf" --&gt; Country     Person1[person: Person] -- "isLocatedIn" --&gt; City     Person1 -- "hasCreator" --&gt; Reply[reply: Comment]     Reply -- "content does not contain blacklisted words" --- Reply     Reply -- "hasTag" --&gt; Tag[tag: Tag]     Reply -- "replyOf" --&gt; Message[Message]     Person2[Person] -- "likes" --&gt; Reply     Tag -- "hasTag" --&gt; Message</pre>																								
desc.	<p>Find those Persons of a given Country that replied to any Message, such that the reply does not have any Tag in common with the Message (only direct replies are considered, transitive ones are not). Consider only those replies that do no contain any word from a given <code>blacklist</code>. For each Person and valid reply, retrieve the Tags associated with the reply, and retrieve the number of likes on the reply.</p> <p>The detailed conditions for checking blacklisted words are currently as follows. Words do not have to stand separately, i.e. if the word “Green” is blacklisted, “South-Greenland” cannot be included in the results. Also, comparison should be done in a case-sensitive way. These conditions are preliminary and might be changed in later versions of the benchmark.</p>																								
params	<table><tr><td>1</td><td>country</td><td>String</td><td></td></tr><tr><td>2</td><td>blacklist</td><td>String[]</td><td></td></tr></table>					1	country	String		2	blacklist	String[]													
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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>tag.name</td><td>String</td><td>R</td><td></td></tr><tr><td>3</td><td>likeCount</td><td>32-bit Integer</td><td>A</td><td>The count of likes to replies with that Tag</td></tr><tr><td>4</td><td>replyCount</td><td>32-bit Integer</td><td>A</td><td>The count of replies with that Tag</td></tr></table>					1	person.id	64-bit Integer	R		2	tag.name	String	R		3	likeCount	32-bit Integer	A	The count of likes to replies with that Tag	4	replyCount	32-bit Integer	A	The count of replies with that Tag
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sort	<table><tr><td>1</td><td>likeCount</td><td>↓</td><td></td></tr><tr><td>2</td><td>person.id</td><td>↑</td><td></td></tr><tr><td>3</td><td>tag.name</td><td>↑</td><td></td></tr></table>					1	likeCount	↓		2	person.id	↑		3	tag.name	↑									
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limit	100																								
CPs	1.1, 2.1, 2.2, 2.3, 3.1, 3.2, 6.1, 8.1, 8.3																								