

BI / read / 14

BI 1	query	BI / read / 14			
BI 2	title	International dialog			
BI 3	pattern	<p>For each pair of countries, calculate the cost as a sum of cases #1–4. Cases that have a match add to the final score with the specified value. Each case only counts once, multiple matches do not increase to the score.</p>			
BI 4					
BI 5					
BI 6					
BI 7					
BI 8					
BI 9					
BI 10	description	<p>Consider all pairs of people (<i>person1</i>, <i>person2</i>) such that (1) they know each other, (2) one is located in a City of <i>\$country1</i>, and (3) the other is located in a City of <i>\$country2</i>. For each City of <i>\$country1</i>, return the highest scoring pair. If there are multiple top-scoring pairs in a city, return the pair with the lowest (<i>person1.id</i>, <i>person2.id</i>) using a lexicographical ordering.</p> <p>The score of a pair is defined as the sum of the subscores awarded for the following kinds of interaction. The initial value is <i>score</i> = 0.</p> <ol style="list-style-type: none"> 1. <i>person1</i> has created a reply Comment to at least one Message by <i>person2</i>: <i>score</i> += 4 2. <i>person1</i> has created at least one Message that <i>person2</i> has created a reply to: <i>score</i> += 1 3. <i>person1</i> liked at least one Message by <i>person2</i>: <i>score</i> += 10 4. <i>person1</i> has created at least one Message that was liked by <i>person2</i>: <i>score</i> += 1 <p>Consequently, the maximum score a pair can obtain is: 4 + 1 + 10 + 1 = 16.</p>			
BI 11					
BI 12					
BI 13					
BI 14					
BI 15					
BI 16					
BI 17					
BI 18					
BI 19					
BI 20					
params	1	<i>\$country1</i>	Long String	(a) Correlated with parameter <i>country2</i> , i.e. the Countries are close and there are many Persons knowing each other	
	2	<i>\$country2</i>	Long String	(b) Uncorrelated with parameter <i>country2</i> , i.e. the Countries are afar and there are few Persons knowing each other	
result	1	<i>person1.id</i>	ID	R	
	2	<i>person2.id</i>	ID	R	
	3	<i>city1.name</i>	Long String	R	
	4	<i>score</i>	32-bit Integer	C	
sort	1	<i>score</i>	↓		
	2	<i>person1.id</i>	↑		
	3	<i>person2.id</i>	↑		
limit	100				
CPs	1.3, 1.4, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3, 8.3, 8.4				