

BI / read / 14

BI 1	query	BI / read / 14		
BI 2	title	International dialog		
BI 3		<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> <pre> graph LR Country1[Country] -- "isPartOf" --> City1[city1: City] Country1 -- "isPartOf" --> City2[City] City1 -- "isLocatedIn" --> Person1[person1: Person] City2 -- "isLocatedIn" --> Person2[person2: Person] Person1 -- "knows" --> Person2 </pre>		
BI 4		<ul style="list-style-type: none"> Case 1: score += 4 (person1 hasCreator Comment, person2 replyOf Message) Case 2: score += 1 (Message hasCreator person1, Comment replyOf person2) Case 3: score += 10 (person1 likes Message, Message hasCreator person2) Case 4: score += 1 (Message hasCreator person1, person2 likes Message) 		
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				
	pattern			
	description	<p>Consider all pairs of people (person1, person2) such that (1) they know each other, (2) one is located in a City of \$country1, and (3) the other is located in a City of \$country2. For each City of \$country1, return the highest scoring pair. If there are multiple top-scoring pairs in a city, return the pair with the lowest (person1.id, person2.id) 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 score = 0.</p> <ol style="list-style-type: none"> 1. person1 has created a reply Comment to at least one Message by person2: score += 4 2. person1 has created at least one Message that person2 has created a reply to: score += 1 3. person1 liked at least one Message by person2: score += 10 4. person1 has created at least one Message that was liked by person2: score += 1 <p>Consequently, the maximum score a pair can obtain is: $4 + 1 + 10 + 1 = 16$.</p>		
	params	1 \$country1	Long String	(a) Correlated with parameter country2, i.e. the Countries are close and there are many Persons knowing each other (b) Uncorrelated with parameter country2, i.e. the Countries are afar and there are few Persons knowing each other
		2 \$country2	Long String	
	result	1 person1.id	ID	R
		2 person2.id	ID	R
		3 city1.name	Long String	R
		4 score	32-bit Integer	C
	sort	1 score	↓	
		2 person1.id	↑	
		3 person2.id	↑	
	limit	100		
	CPs	1.3, 1.4, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3, 8.3, 8.4		