BI / read / 14

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BI 1	query	BI / read / 14
BI 2 BI 3	title	International dialog
BI 4		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.
BI 5		
BI 6		Country isPartOf city1: City sl.coatedIn person1: Person id
BI 7		knows
BI 8		Country — isPartOf — City — isLocatedIn — person2: Person
BI 9		name = \$country2
BI 10		
BI 11	nattern	Case 1: score += 4
BI 12	pattern	person1: Person person2: Person person2: Person
BI 13		hasCreator hasCreator hasCreator
BI 14		Comment replyOf → Message Message ← replyOf ← Comment
BI 15		Case 3: score += 10
BI 16 BI 17		person1: Person person2: Person person1: Person person2: Person
BI 17		likes Iikes
BI 19		Message hasCreator hasCreator Message
BI 20		
	description	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. 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. 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 Consequently, the maximum score a pair can obtain is: 4 + 1 + 10 + 1 = 16.
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	params	\$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
		1 person1.id ID R
	pattern	
	result	2 person2.id ID R
		3 city1.name Long String R
		4 score 32-bit Integer C
		1 score ↓
	cort	2 person1.id ↑
	Sort	3 person2.id ↑
-		
		100
	CPs	1.3, 1.4, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3, 8.3, 8.4