

BI / read / 22

query	BI / read / 22				
title	International dialog				
pattern	<div><div>For each pair, calculate the cost as a sum of cases #1-5. Cases that has at least one match, add to the final score with the specified value. Each case only counts once, multiple matches do not increase to the score.</div><div><div><div>Country</div><div>name = \$country1</div></div><div>←isPartOf</div><div><div>city1: City</div><div>name</div></div><div>←isLocatedIn</div><div><div>person1: Person</div><div>id</div></div></div><div><div><div>Country</div><div>name = \$country2</div></div><div>←isPartOf</div><div><div>City</div></div><div>←isLocatedIn</div><div><div>person2: Person</div><div>id</div></div></div></div> <div><div>case 1: score += 4</div><div><div><div>person1: Person</div><div>hasCreator</div><div>Comment</div></div><div>replyOf</div><div><div>person2: Person</div><div>hasCreator</div><div>Message</div></div></div></div> <div><div>case 2: score += 1</div><div><div><div>person1: Person</div><div>hasCreator</div><div>Message</div></div><div>replyOf</div><div><div>person2: Person</div><div>hasCreator</div><div>Comment</div></div></div></div> <div><div>case 3: score += 15</div><div><div><div>person1: Person</div><div>knows</div><div>person2: Person</div></div></div></div> <div><div>case 4: score += 10</div><div><div><div>person1: Person</div><div>likes</div><div>Message</div></div><div>hasCreator</div><div><div>person2: Person</div><div>hasCreator</div><div>Message</div></div></div></div> <div><div>case 5: score += 1</div><div><div><div>person1: Person</div><div>hasCreator</div><div>Message</div></div><div>likes</div><div><div>person2: Person</div><div>hasCreator</div><div>Message</div></div></div></div>				
desc.	<p>Consider all pairs of people (person1, person2) such that one is located in a City of Country country1 and the other is located in a City of Country country2. For each City of Country country1, return the highest scoring pair. 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 += 42. person1 has created at least one Message that person2 has created a reply Comment to: score += 13. person1 and person2 know each other: score += 154. person1 liked at least one Message by person2: score += 105. 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 + 15 + 10 + 1 = 31. To break ties, order by (1) person1.id ascending and (2) person2.id ascending.</p>				
params	1	country1	String		
	2	country2	String		
result	1	person1.id	64-bit Integer	R	
	2	person2.id	64-bit Integer	R	
	3	city1.name	String	R	
	4	score	32-bit Integer	C	
sort	1	score	↓		
	2	person1.id	↑		
	3	person2.id	↑		
CPs	1.3, 1.4, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3, 8.3, 8.4				