

BI / read / 22

query	BI / read / 22																							
title	International dialog																							
pattern	<div><div><div>For each pair, calculate the cost based on 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><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><div><div>case 1: score += 4</div><div><div><div>person1: Person</div><div>likes</div><div>Message</div></div><div><div>person2: Person</div><div>hasCreator</div><div>Message</div></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><div>person2: Person</div><div>likes</div><div>Message</div></div></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><div><div>case 4: score += 10</div><div><div><div>person1: Person</div><div>hasCreator</div><div>Comment</div></div><div><div>person2: Person</div><div>hasCreator</div><div>Message</div></div><div><div>Message</div><div>replyOf</div><div>Comment</div></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><div>person2: Person</div><div>hasCreator</div><div>Comment</div></div><div><div>Message</div><div>replyOf</div><div>Comment</div></div></div></div></div></div></div></div>																							
desc.	<p>Consider all pairs of people (person1, person2) such that one is located in a <i>City</i> of <i>Country</i> country1 and the other is located in a <i>City</i> of <i>Country</i> country2.</p> <p>For each <i>City</i> of <i>Country</i> country1, return the highest scoring pair.</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 <i>Comment</i> to at least one <i>Message</i> by person2: score += 42. person1 has created at least one <i>Message</i> that person2 has created a reply <i>Comment</i> to: score += 13. person1 and person2 <i>know</i> each other: score += 154. person1 liked at least one <i>Message</i> by person2: score += 105. person1 has created at least one <i>Message</i> that was liked by person2: score += 1 <p>Consequently, the maximum score a pair can obtain is: 4 + 1 + 15 + 10 + 1 = 31</p>																							
params	<table><tr><td>1</td><td>country1</td><td>String</td><td></td></tr><tr><td>2</td><td>country2</td><td>String</td><td></td></tr></table>				1	country1	String		2	country2	String													
1	country1	String																						
2	country2	String																						
result	<table><tr><td>1</td><td>person1.id</td><td>64-bit Integer</td><td>R</td><td></td></tr><tr><td>2</td><td>person2.id</td><td>64-bit Integer</td><td>R</td><td></td></tr><tr><td>3</td><td>city1.name</td><td>String</td><td>R</td><td></td></tr><tr><td>4</td><td>score</td><td>32-bit Integer</td><td>C</td><td></td></tr></table>				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	
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	<table><tr><td>1</td><td>score</td><td>↓</td><td></td></tr><tr><td>2</td><td>person1.id</td><td>↑</td><td></td></tr><tr><td>3</td><td>person2.id</td><td>↑</td><td></td></tr></table>				1	score	↓		2	person1.id	↑		3	person2.id	↑									
1	score	↓																						
2	person1.id	↑																						
3	person2.id	↑																						
CPs	1.4, 1.6, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3																							