
BI / read / 14

query	BI / read / 14																				
title	International dialog																				
pattern	<div><p>For each pair of countries, calculate the cost as a sum of cases #1-5. 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><div><div><div>Country</div><div><i>name = \$country1</i></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><i>name = \$country2</i></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>Message</div><div>hasCreator ↑</div><div>person2: Person</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>Comment</div><div>hasCreator ↑</div><div>person2: Person</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></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></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 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.</p> <p>This query has two variants based on whether the input parameters are selected as correlated (close countries) or uncorrelated (far countries).</p>																				
params	<table><tr><td>1</td><td>country1</td><td>Long String</td><td>A: correlated with parameter country2, i.e. the countries are close and there are many Persons visiting both Countries. B: uncorrelated with parameter country2, i.e. the countries are afar and there are few Persons visiting both Countries.</td></tr><tr><td>2</td><td>country2</td><td>Long String</td><td></td></tr></table>	1	country1	Long String	A: correlated with parameter country2, i.e. the countries are close and there are many Persons visiting both Countries. B: uncorrelated with parameter country2, i.e. the countries are afar and there are few Persons visiting both Countries.	2	country2	Long String													
1	country1	Long String	A: correlated with parameter country2, i.e. the countries are close and there are many Persons visiting both Countries. B: uncorrelated with parameter country2, i.e. the countries are afar and there are few Persons visiting both Countries.																		
2	country2	Long String																			
result	<table><tr><td>1</td><td>person1.id</td><td>ID</td><td>R</td><td></td></tr><tr><td>2</td><td>person2.id</td><td>ID</td><td>R</td><td></td></tr><tr><td>3</td><td>city1.name</td><td>Long 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	ID	R		2	person2.id	ID	R		3	city1.name	Long String	R		4	score	32-bit Integer	C	
1	person1.id	ID	R																		
2	person2.id	ID	R																		
3	city1.name	Long 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	↑																			
limit	n/a																				
CPs	1.3, 1.4, 2.1, 3.1, 3.3, 5.1, 5.2, 5.3, 8.3, 8.4																				