

## BI / read / 11

query	BI / read / 11											
title	Friend triangles											
pattern	<pre>graph TD     Country[Country]     City1[City]     City2[City]     City3[City]     PersonA[a: Person]     PersonB[b: Person]     PersonC[c: Person]      Country -- isPartOf --&gt; City1     Country -- isPartOf --&gt; City2     Country -- isPartOf --&gt; City3     City1 -- isLocatedIn --&gt; PersonA     City2 -- isLocatedIn --&gt; PersonB     City3 -- isLocatedIn --&gt; PersonC     PersonA -- "knows \$startDate &lt; knows.creationDate" --&gt; PersonB     PersonB -- "knows \$startDate &lt; knows.creationDate" --&gt; PersonC     PersonC -- "knows \$startDate &lt; knows.creationDate" --&gt; PersonA</pre>											
desc.	<p>For a given country, count all the distinct triples of Persons such that:</p> <ul style="list-style-type: none"><li>• a is friend of b,</li><li>• b is friend of c,</li><li>• c is friend of a,</li></ul> <p>and these friendships were created after a given startDate.</p> <p>Distinct means that given a triple <math>t_1</math> in the result set <math>R</math> of all qualified triples, there is no triple <math>t_2</math> in <math>R</math> such that <math>t_1</math> and <math>t_2</math> have the same set of elements.</p>											
params	<table><tr><td>1</td><td>country</td><td>Long String</td><td></td></tr><tr><td>2</td><td>startDate</td><td>Date</td><td></td></tr></table>	1	country	Long String		2	startDate	Date				
1	country	Long String										
2	startDate	Date										
result	<table><tr><td>1</td><td>count</td><td>32-bit Integer</td><td>A</td><td></td></tr></table>	1	count	32-bit Integer	A							
1	count	32-bit Integer	A									
limit	n/a											
CPs	1.1, 2.3, 2.5											