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BI 1	query	BI / read / 18		
BI 2	title	Friend recommendation		
BI 3	pattern	<p>For each person1 compute top-k(person2) based on mutualFriendCount</p> <pre> graph LR tag[Tag] -- "name = \$tag" --> person1[person1: Person] person1 -- "hasInterest" --> tag person1 -- "knows" --> personM[personM: Person] personM -- "knows" --> person2[person2: Person] person2 -- "!= person1" --> person2 personM -- "mutualFriendCount = count(*)" --> personM </pre>		
BI 4	description	<p>For a given \$tag, for each person1 interested in \$tag, recommend new friends (person2) who</p> <ul style="list-style-type: none"> do not yet know person1 have at least one mutual friend with person1 are also interested in \$tag. <p>Rank Persons person2 based on the number of mutual friends with person1.</p>		
BI 5	params	1	\$tag	Long String
BI 6		Tags with a similar amount of Persons are selected		
BI 7	result	1	person1.id	ID
BI 8		2	person2.id	ID
BI 9		3	mutualFriendCount	32-bit Integer
BI 10	sort	1	mutualFriendCount	\downarrow
BI 11		2	person1.id	\uparrow
BI 12		3	person2.id	\uparrow
BI 13	limit	20		
BI 14	CPs	2.5, 2.6, 8.1		
BI 15				
BI 16				
BI 17				
BI 18				
BI 19				
BI 20				