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query	BI / read / 18				
title	Friend recommendation				
pattern	<div><div>For each person1 compute top-k(person2) based on mutualFriendCount</div><p>The diagram illustrates the query pattern for friend recommendation. It features three main entities: person1: Person, a central Person, and person2: Person. person1 is linked to the central Person via a knows relationship. The central Person is linked to person2 via another knows relationship. A box around the central Person indicates the calculation: mutualFriendCount = count(*). person2 is also linked to a tag: Tag entity via a hasInterest relationship. The tag entity has the property name = \$tag. A red dashed line with the label «neg» knows connects person1 to person2, indicating a negation constraint. The person2 entity has a property ≠ person1 and an id attribute.</p></div>				
desc.	<p>For a given Person (person1) and a Tag (tag), recommend new friends (person2) who</p> <ul style="list-style-type: none">• do not yet know person1• have many mutual friends with person1• are interested in tag. <p>Rank Persons person2 based on the number of mutual friends.</p>				
params	<div><div>1</div><div>person1Id</div><div>ID</div></div>	Persons with a similar amount of friends are selected			
	<div><div>2</div><div>tag</div><div>Long String</div></div>	Tags with a similar amount of Messages are selected			
result	<div><div>1</div><div>person2.id</div><div>ID</div></div>	R			
	<div><div>2</div><div>mutualFriendCount</div><div>32-bit Integer</div></div>	A			
sort	<div><div>1</div><div>mutualFriendCount</div><div>↓</div></div>				
	<div><div>2</div><div>person2.id</div><div>↑</div></div>				
limit	20				
CPs	2.5, 8.1				