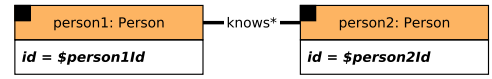
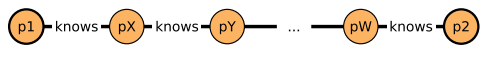
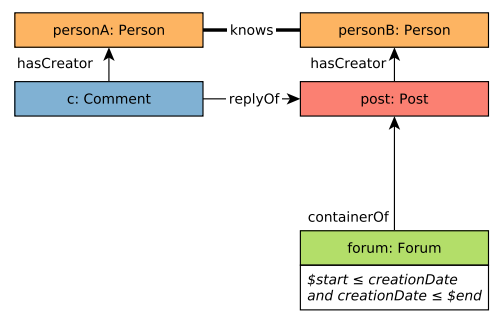
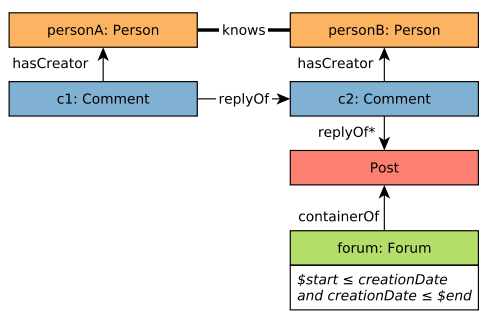


## BI / read / 15

BI 1	query	BI / read / 15			
BI 2	title	Trusted connection paths through forums created in a given timeframe			
BI 3	pattern	<p>Enumerate all unweighted shortest paths on knows edges between person1 to person2.</p> 			
BI 4		<p>For each knows edge in the path, calculate a weight based on interactions between the pair of Persons of the edge, calculated as a sum of cases #1 and #2 for the Persons (both ways), and the sum of these weights determine the total weight of each path.</p> 			
BI 5		<p>Case 1: Replies on Posts, weight += 1.0 × count(c)</p> 			
BI 6		<p>Case 2: Replies on Comments, weight += 0.5 × count(c1)</p> 			
BI 7					
BI 8					
BI 9					
BI 10					
BI 11	desc.	<p>Given two Persons, find all (unweighted) shortest paths between these two Persons, in the subgraph induced by the knows relationship.</p> <p>Then, for each path calculate a weight. The nodes in the path are Persons, and the weight of a path is the sum of weights between every pair of consecutive Person nodes in the path.</p> <p>The weight for a pair of Persons is calculated based on their interactions:</p> <ul style="list-style-type: none"> <li>• Every direct reply (by one of the Persons) to a Post (by the other Person) contributes 1.0.</li> <li>• Every direct reply (by one of the Persons) to a Comment (by the other Person) contributes 0.5.</li> </ul> <p>Only consider Messages that were created in a Forum that was created within the timeframe (interval) [startDate, endDate]. Note that for Comments, the containing Forum is that of the Post that the comment (transitively) replies to. Also note that interactions are counted both ways.</p> <p>Return all paths with the Person IDs ordered by their weights descending.</p>			
BI 12					
BI 13					
BI 14					
BI 15					
BI 16					
BI 17					
BI 18					
BI 19	params	1	person1Id	ID	
BI 20		2	person2Id	ID	
		3	startDate	Date	
		4	endDate	Date	
	result	1	person.id	[ID]	C Ordered sequence of the Person IDs in the path
		2	weight	64-bit Float	C
	sort	1	weight	↓	The order of paths with the same weight is unspecified
		2	personIds	↑	The IDs in the paths are used for lexicographical sorting
	CPs	1.2, 2.1, 2.2, 2.4, 3.3, 5.1, 5.3, 7.2, 7.3, 7.5, 7.7, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6			