IC 1
IC 2
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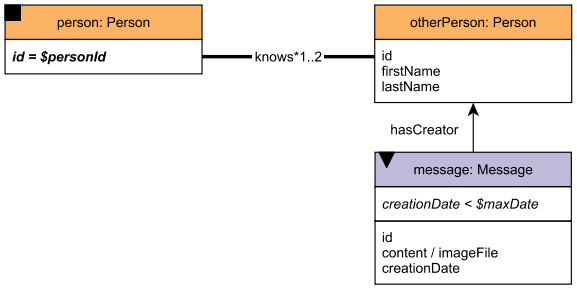
query	Interactive / complex / 9
title	Recent messages by friends or friends of friends
pattern	
description	Given a start Person with ID `$personId`, find the most recent Messages created by that Person's friends or friends of friends (excluding the start Person). Only consider Messages created before the given `$maxDate` (excluding that day).

params

1	`$personId`	ID	
2	`$maxDate`	Date	

result

1	`otherPerson.id`	ID	R	
2	`otherPerson.firstName`	String	R	
3	`otherPerson.lastName`	String	R	
4	`message.id`	ID	R	
5	`message.content or message.imageFile (for photos)`	Text	R	
6	`message.creationDate`	DateTime	R	

sort

1	`message.creationDate`	↓	
2	`message.id`	↑	

limit	20
CPs	1.1, 1.2, 2.2, 2.3, 3.2, 3.3, 8.5
relevance	This query looks for paths of length two or three, starting from a given Person, moving to its friends and friends of friends, and ending at their created Messages. This is one of the most complex queries, as the list of choke points indicates. This query is expected to touch variable amounts of data with entities of different characteristics, and therefore, properly estimating cardinalities and selecting the proper operators will be crucial.