Interactive / complex / 2

IC 1	query	Interactive / complex / 2	
IC 2	title	Recent messages by your friends	
IC 3 IC 4 IC 5 IC 6 IC 7 IC 8	pattern	person: Person id = \$personId knows id firstName lastName lastName Given a start Person (person), find the most recent Messages from all of that Person's friends (friend)	
IC 9	l desc	nodes). Only consider Messages created before the given maxDate (excluding that day).	
IC 10 IC 11 IC 12	params	1 personId ID 2 maxDate Date	
IC 13 IC 14	result	1 friend.id ID R 2 friend.firstName String R 3 friend.lastName String R 4 message.id ID R message.content or 5 message.imageFile (for photos) 6 message.creationDate DateTime R	
	limit	20	
	CPs	CPs 1.1, 2.2, 2.3, 3.2, 8.5	
	relevance	This is a navigational query looking for paths of length two, starting from a given Person, going to their friends and from them, moving to their published Posts and Comments. This query exercices both the optimizer and how data is stored. It tests the ability to create execution plans taking advantage of the orderings induced by some operators to avoid performing expensive sorts. This query requires selecting Posts and Comments based on their creation date, which might be correlated with their identifier and therefore, having intermediate results with interesting orders. Also, messages could be stored in an order correlated with their creation date to improve data access locality. Finally, as many of the attributes required in the projection are not needed for the execution of the query, it is expected that the query optimizer will move the projection to the end.	