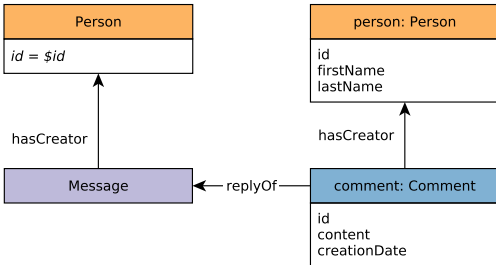


## Interactive / complex / 8

query	Interactive / complex / 8																																		
title	Recent replies																																		
pattern	 <pre>graph TD     Person[Person] -- hasCreator --&gt; Message[Message]     Message -- replyOf --&gt; comment[comment: Comment]     comment -- hasCreator --&gt; person[person: Person]     Person -- id = \$id --&gt; Person     person -- id, firstName, lastName --&gt; person     comment -- id, content, creationDate --&gt; comment</pre>																																		
desc.	Given a start Person, find (most recent) Comments that are replies to Messages of the start Person. Only consider direct (single-hop) replies, not the transitive (multi-hop) ones. Return the reply Comments, and the Person that created each reply Comment.																																		
params	<table><tr><td>1</td><td>Person.id</td><td>ID</td><td colspan="2">personId</td></tr></table>					1	Person.id	ID	personId																										
1	Person.id	ID	personId																																
result	<table><tr><td>1</td><td>Person.id</td><td>ID</td><td>R</td><td>personId</td></tr><tr><td>2</td><td>Person.firstName</td><td>String</td><td>R</td><td>personFirstName</td></tr><tr><td>3</td><td>Person.lastName</td><td>String</td><td>R</td><td>personLastName</td></tr><tr><td>4</td><td>Comment.creationDate</td><td>DateTime</td><td>R</td><td>commentCreationDate</td></tr><tr><td>5</td><td>Comment.id</td><td>ID</td><td>R</td><td>commentId</td></tr><tr><td>6</td><td>Comment.content</td><td>String</td><td>R</td><td>commentContent</td></tr></table>					1	Person.id	ID	R	personId	2	Person.firstName	String	R	personFirstName	3	Person.lastName	String	R	personLastName	4	Comment.creationDate	DateTime	R	commentCreationDate	5	Comment.id	ID	R	commentId	6	Comment.content	String	R	commentContent
1	Person.id	ID	R	personId																															
2	Person.firstName	String	R	personFirstName																															
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4	Comment.creationDate	DateTime	R	commentCreationDate																															
5	Comment.id	ID	R	commentId																															
6	Comment.content	String	R	commentContent																															
sort	<table><tr><td>1</td><td>Comment.creationDate</td><td>↓</td><td></td></tr><tr><td>2</td><td>Comment.id</td><td>↑</td><td></td></tr></table>					1	Comment.creationDate	↓		2	Comment.id	↑																							
1	Comment.creationDate	↓																																	
2	Comment.id	↑																																	
limit	20																																		
CPs	2.4, 3.2, 3.3, 5.3																																		
relevance	This query looks for paths of length two, starting from a given <b>Person</b> , going through its created <b>Messages</b> and finishing at their replies. In this query there is temporal locality between the replies being accessed. Thus the top-k order by this can interact with the selection, i.e. do not consider older <b>Posts</b> than the 20th oldest seen so far.																																		