


Updates / delete / 1

DEL 1
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DEL 3
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DEL 8


query	Updates / delete / 1				
title	Remove person and its personal forums and message (sub)threads				
pattern	<p>The diagram illustrates the deletion of a person and their associated entities. A central orange box labeled 'Person' contains the text 'id = \$personId'. It is connected to several other boxes: 'Message' (purple), 'Tag' (pink), 'City' (teal), 'Company' (green), 'University' (yellow), 'Forum (Group/Album/Wall)' (light green), and 'Forum (Group)' (light green). The edges are labeled: 'likes', 'hasInterest', 'isLocatedIn', 'knows', 'workAt', 'studyAt', 'hasMember', 'hasModerator', and 'hasCreator'. All edges are marked with a red 'X'. The 'Message' boxes have labels: 'invoke delete operation 6 (Posts) or operation 7 (Comments)' and 'invoke delete operation 4'. The 'Forum (Album/Wall)' box has a label: 'invoke delete operation 4'.</p>				
description	Remove a Person with ID \$personId and its edges (isLocatedIn, studyAt, workAt, hasInterest, likes, knows, hasMember, hasModerator, hasCreator). Additionally, remove the Album and Wall Forums whose moderator is the Person and remove all Messages the Person has created in the rest of the Forums (Groups).				
params	<table><tr><td>1</td><td>\$personId</td><td>ID</td><td></td></tr></table>	1	\$personId	ID	
1	\$personId	ID			
CPs	9.3, 9.4, 9.5				
relevance	<ul style="list-style-type: none">Removal of a Person removes Forums of type “Walls” and “Albums” but not “Groups”, which can continue if even the founder has left the network. For Groups, the hasModerator edge is deleted. We have discussed various approaches to appoint a new moderator, e.g.<ol style="list-style-type: none">choose member at random from the set of existing group members orthe member with the oldest group join date becomes the moderator. However, to keep the generator and the workload simple, currently no moderator is selected, leaving the group without a moderator.Removal of a Person removes all Posts/Comments they are creator of this could result in the removal of a Comment in the middle of a thread.				

Updates / delete / 2

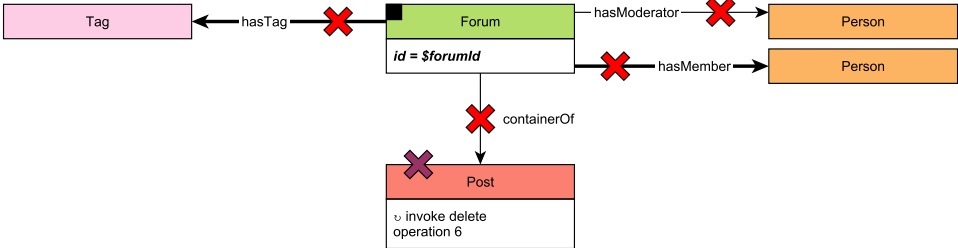
DEL 1
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query	Updates / delete / 2											
title	Remove post like											
pattern												
description	Given a Person with ID \$personId and a Post with ID \$postId, remove the likes edge between them.											
params	<table><tr><td>1</td><td>\$personId</td><td>ID</td><td></td></tr><tr><td>2</td><td>\$postId</td><td>ID</td><td></td></tr></table>	1	\$personId	ID		2	\$postId	ID				
1	\$personId	ID										
2	\$postId	ID										
CPs	9.4											
relevance	Removal of a likes edge is a rare event, e.g. people accidentally liking a Post, this can be reflected by the relative frequency of the operation.											

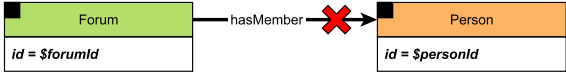
Updates / delete / 3

DEL 1	query	Updates / delete / 3	
DEL 2	title	Remove comment like	
DEL 3	pattern		
DEL 4			
DEL 5			
DEL 6			
DEL 7			
DEL 8			
	description	Given a Person with ID \$personId and a Comment with ID \$commentId, remove the likes edge between them.	
	params	1	\$personId ID
		2	\$commentId ID
	CPs	9.4	
	relevance	Removal of a likes edge is a rare event, e.g. people accidentally liking a Comment, this can be reflected by the relative frequency of the operation.	

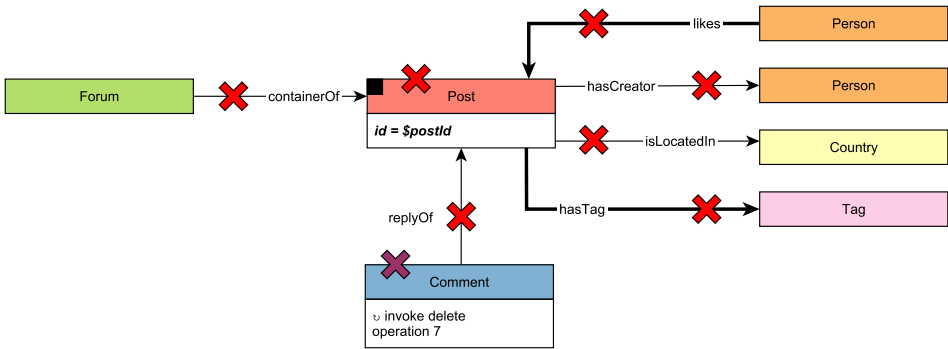
Updates / delete / 4

DEL 1	query	Updates / delete / 4	
DEL 2	title	Remove forum and its content	
DEL 3	pattern		
DEL 4			
DEL 5			
DEL 6			
DEL 7			
DEL 8			
	description	Remove a Forum with ID \$forumId and its edges (hasModerator, hasMember, hasTag) and all Posts in the Forum (connected by containerOf edges) and their direct and transitive Comments.	
	params	1	\$forumId ID
	CPs	9.3, 9.4, 9.5	
	relevance	n/a	

Updates / delete / 5

DEL 1	query	Updates / delete / 5									
DEL 2	title	Remove forum membership									
DEL 3	pattern										
DEL 4	description	Given a Forum with ID \$forumId and a Person with ID \$personId, remove the hasMember edge between them.									
DEL 5	params	<table border="1"> <tr> <td>1</td><td>\$forumId</td><td>ID</td><td></td></tr> <tr> <td>2</td><td>\$personId</td><td>ID</td><td></td></tr> </table>		1	\$forumId	ID		2	\$personId	ID	
1	\$forumId	ID									
2	\$personId	ID									
DEL 6	CPs	9.4									
DEL 7	relevance	n/a									
DEL 8											

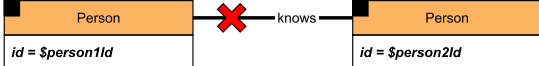
Updates / delete / 6

DEL 1	query	Updates / delete / 6					
DEL 2	title	Remove post thread					
DEL 3	pattern						
DEL 4	description	Remove a Post node with ID \$postId and its edges (isLocatedIn, likes, hasCreator, hasTag, containerOf). Remove all replies to the Post and the connecting replyOf edges. In addition, remove all transitive reply Comments to the Post and their edges.					
DEL 5	params	<table border="1"> <tr> <td>1</td><td>\$postId</td><td>ID</td><td></td></tr> </table>		1	\$postId	ID	
1	\$postId	ID					
DEL 6	CPs	9.3, 9.4, 9.5					
DEL 7	relevance	n/a					
DEL 8							

Updates / delete / 7

DEL 1	query	Updates / delete / 7
DEL 2	title	Remove comment subthread
DEL 3	pattern	
DEL 4		
DEL 5		
DEL 6		
DEL 7	description	Remove a Comment node with ID \$commentId and its <i>edges</i> (isLocatedIn, likes, hasCreator, hasTag). In addition, remove all replies to the Comment connected by replyOf and their <i>edges</i> .
DEL 8		
	params	<div><div>1</div><div>\$commentId</div><div>ID</div><div></div></div>
	CPs	9.3, 9.4, 9.5
	relevance	n/a

Updates / delete / 8

DEL 1	query	Updates / delete / 8								
DEL 2	title	Remove friendship								
DEL 3	pattern									
DEL 4	description	Given two Person nodes with IDs \$person1Id and \$person2Id, remove the knows edge between them.								
DEL 5	params	<table><tr><td>1</td><td>\$person1Id</td><td>ID</td><td></td></tr><tr><td>2</td><td>\$person2Id</td><td>ID</td><td></td></tr></table>	1	\$person1Id	ID		2	\$person2Id	ID	
1		\$person1Id	ID							
2	\$person2Id	ID								
DEL 6	CPs	9.4								
DEL 7	relevance	n/a								
DEL 8										