


## BI / delete / 1

DEL 1  
DEL 2  
DEL 3  
DEL 4  
DEL 5  
DEL 6  
DEL 7  
DEL 8

query	BI / delete / 1				
title	Remove person and its personal forums and message (sub)threads				
pattern	<pre>graph LR     P[Person id = \$personId]     M1[Message]     P -- likes --&gt; M1     P -- knows --&gt; P     P -- workAt --&gt; Co[Company]     P -- studyAt --&gt; U[University]     P -- isLocatedIn --&gt; Ci[City]     P -- hasInterest --&gt; T[Tag]     P -- hasMember --&gt; F1[Forum (Group/Album/Wall)]     P -- hasModerator --&gt; F2[Forum (Group)]     P -- hasCreator --&gt; M2[Message]     M2 -- "invoke delete operation 6 (Posts) or operation 7 (Comments)" --&gt; M2     F1 -- "invoke delete operation 4" --&gt; F1</pre>				
desc.	Remove a Person 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"><li>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"><li>choose member at random from the set of existing group members or</li><li>the 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.</li></ol></li><li>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.</li></ul>				

## BI / delete / 2

DEL 1  
DEL 2  
DEL 3  
DEL 4  
DEL 5  
DEL 6  
DEL 7  
DEL 8

query	BI / delete / 2											
title	Remove post like											
pattern												
desc.	Given a Person and a Post, 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.											

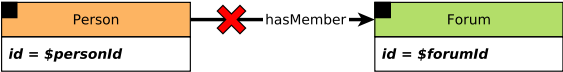
### BI / delete / 3

DEL 1	query	BI / delete / 3									
DEL 2	title	Remove comment like									
DEL 3	pattern										
DEL 4											
DEL 5											
DEL 6											
DEL 7											
DEL 8	params	<table> <tr> <td>1</td><td>personId</td><td>ID</td><td></td></tr> <tr> <td>2</td><td>commentId</td><td>ID</td><td></td></tr> </table>	1	personId	ID		2	commentId	ID		
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.									

### BI / delete / 4

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

### BI / delete / 5

DEL 1	query	BI / delete / 5									
DEL 2	title	Remove forum membership									
DEL 3	pattern										
DEL 4											
DEL 5											
DEL 6											
DEL 7											
DEL 8	params	<table> <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									
	CPs	9.4									
	relevance	n/a									

## BI / delete / 6

DEL 1	query	BI / delete / 6		
DEL 2	title	Remove post thread		
DEL 3	pattern			
DEL 4				
DEL 5				
DEL 6				
DEL 7				
DEL 8				
	desc.	Remove a Post node 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.		
	params	1	postId	ID
	CPs	9.3, 9.4, 9.5		
	relevance	n/a		

## BI / delete / 7

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

## BI / delete / 8

DEL 1	query	BI / delete / 8		
DEL 2	title	Remove friendship		
DEL 3	pattern			
DEL 4	desc.	Given two Person nodes, remove the knows edge between them.		
DEL 5	params	1	person1Id	ID
DEL 6		2	person2Id	ID
DEL 7	CPs	9.4		
DEL 8	relevance	n/a		