


## BI / delete / 1

|       |           |  |   |          |    |  |
|-------|-----------|--|---|----------|----|--|
| DEL 1 | query     | BI / delete / 1  |   |          |    |  |
| DEL 2 | title     | Remove person and its personal forums and message (sub)threads   |   |          |    |  |
| DEL 3 | pattern   |  |   |          |    |  |
| DEL 4 |           |  |   |          |    |  |
| DEL 5 |           |  |   |          |    |  |
| DEL 6 |           |  |   |          |    |  |
| DEL 7 |           |  |   |          |    |  |
| DEL 8 |           |  |   |          |    |  |
|       | 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 | query     | BI / delete / 2  |          |    |  |
| DEL 2 | title     | Remove post like   |          |    |  |
| DEL 3 | pattern   |    |          |    |  |
| DEL 4 |           |  |          |    |  |
| DEL 5 |           |  |          |    |  |
| DEL 6 |           |  |          |    |  |
| DEL 7 | desc.     | Given a Person and a Post, remove the likes edge between them.   |          |    |  |
| DEL 8 | params    | <div>1</div>   | personId | ID |  |
|       |           | <div>2</div>   | 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. |          |    |  |

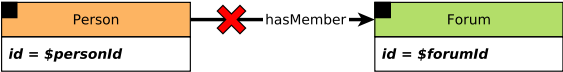
### BI / delete / 3

|       |           |   |  |   |          |    |  |   |           |    |  |
|-------|-----------|---|--|---|----------|----|--|---|-----------|----|--|
| DEL 1 | query     | BI / delete / 3   |  |   |          |    |  |   |           |    |  |
| DEL 2 | title     | Remove comment like   |  |   |          |    |  |   |           |    |  |
| DEL 3 | pattern   |   |  |   |          |    |  |   |           |    |  |
| DEL 4 | desc.     | Given a Person and a Comment, remove the likes edge between them.   |  |   |          |    |  |   |           |    |  |
| DEL 7 | 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  |  |   |          |    |  |   |           |    |  |
| DEL 8 | 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. |  |   |          |    |  |   |           |    |  |

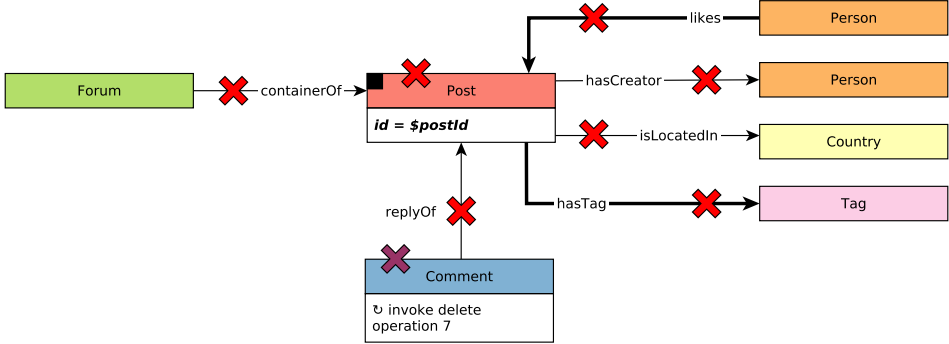
### BI / delete / 4

|       |           |  |  |   |         |    |  |
|-------|-----------|--|--|---|---------|----|--|
| DEL 1 | query     | BI / delete / 4  |  |   |         |    |  |
| DEL 2 | title     | Remove forum and its content   |  |   |         |    |  |
| DEL 3 | pattern   |   |  |   |         |    |  |
| DEL 4 | 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. |  |   |         |    |  |
| DEL 5 | params    | <table> <tr> <td>1</td><td>forumId</td><td>ID</td><td></td></tr> </table>  |  | 1 | forumId | ID |  |
| 1     | forumId   | ID   |  |   |         |    |  |
| DEL 6 | CPs       | 9.3, 9.4, 9.5  |  |   |         |    |  |
| DEL 7 | relevance | n/a  |  |   |         |    |  |

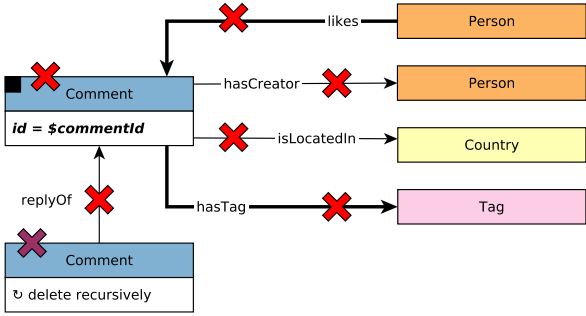
### BI / delete / 5

|       |           |   |  |   |         |    |  |   |          |    |  |
|-------|-----------|---|--|---|---------|----|--|---|----------|----|--|
| DEL 1 | query     | BI / delete / 5   |  |   |         |    |  |   |          |    |  |
| DEL 2 | title     | Remove forum membership   |  |   |         |    |  |   |          |    |  |
| DEL 3 | pattern   |   |  |   |         |    |  |   |          |    |  |
| DEL 4 | desc.     | Given a Forum and a Person, remove the hasMember edge between them.   |  |   |         |    |  |   |          |    |  |
| DEL 5 | 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  |  |   |         |    |  |   |          |    |  |
| DEL 6 | CPs       | 9.4   |  |   |         |    |  |   |          |    |  |
| DEL 7 | relevance | n/a   |  |   |         |    |  |   |          |    |  |

## BI / delete / 6

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

## BI / delete / 7

|       |           |  |              |
|-------|-----------|--|--------------|
| DEL 1 | query     | BI / delete / 7  |              |
| DEL 2 | title     | Remove comment subthread   |              |
| DEL 3 | pattern   |    |              |
| DEL 4 | 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. |              |
| DEL 5 | params    | 1  | commentId ID |
| DEL 6 | CPs       | 9.3, 9.4, 9.5  |              |
| DEL 7 | relevance | n/a  |              |
| DEL 8 |           |  |              |

## 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  |           |    |