

Interactive / insert / 1

INS 1	query	Interactive / insert / 1																																																									
INS 2	title	Add person																																																									
INS 3	pattern	<pre> graph LR City[City] -- isLocatedIn --> Person[Person] Tag[Tag] -- hasInterest --> Person Person -- studyAt --> University[University] Person -- workAt --> Company[Company] </pre> <p>City: $id = \\$cityId$</p> <p>Tag: $id \text{ in } \\$tagIds$</p> <p>Person: $id \leftarrow \\$personId$, $firstName \leftarrow \\$personFirstName$, $lastName \leftarrow \\$lastName$, $gender \leftarrow \\$gender$, $birthday \leftarrow \\$birthday$, $creationDate \leftarrow \\$creationDate$, $locationIP \leftarrow \\$locationIP$, $browserUsed \leftarrow \\$browserUsed$, $\{speaks\} \leftarrow \\$languages$, $\{email\} \leftarrow \\$emails$</p> <p>University: $id = \\$studyAt[i]$</p> <p>Company: $id = \\$workAt[j]$</p>																																																									
INS 4	desc.	Add a Person <i>node</i> , connected to the network by 4 possible <i>edge</i> types.																																																									
INS 5	params	<table> <tr><td>1</td><td>personId</td><td>ID</td><td></td></tr> <tr><td>2</td><td>personFirstName</td><td>String</td><td></td></tr> <tr><td>3</td><td>personLastName</td><td>String</td><td></td></tr> <tr><td>4</td><td>gender</td><td>String</td><td></td></tr> <tr><td>5</td><td>birthday</td><td>Date</td><td></td></tr> <tr><td>6</td><td>creationDate</td><td>DateTime</td><td></td></tr> <tr><td>7</td><td>locationIP</td><td>String</td><td></td></tr> <tr><td>8</td><td>browserUsed</td><td>String</td><td></td></tr> <tr><td>9</td><td>cityId</td><td>ID</td><td></td></tr> <tr><td>10</td><td>languages</td><td>{String}</td><td></td></tr> <tr><td>11</td><td>emails</td><td>{Long String}</td><td></td></tr> <tr><td>12</td><td>tagIds</td><td>{ID}</td><td></td></tr> <tr><td>13</td><td>studyAt</td><td>{<ID, 32-bit Integer>}</td><td>{<universityId, classYear>}</td></tr> <tr><td>14</td><td>workAt</td><td>{<ID, 32-bit Integer>}</td><td>{<companyId, workFrom>}</td></tr> </table>		1	personId	ID		2	personFirstName	String		3	personLastName	String		4	gender	String		5	birthday	Date		6	creationDate	DateTime		7	locationIP	String		8	browserUsed	String		9	cityId	ID		10	languages	{String}		11	emails	{Long String}		12	tagIds	{ID}		13	studyAt	{<ID, 32-bit Integer>}	{<universityId, classYear>}	14	workAt	{<ID, 32-bit Integer>}	{<companyId, workFrom>}
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INS 6	CPs	9.1, 9.2																																																									

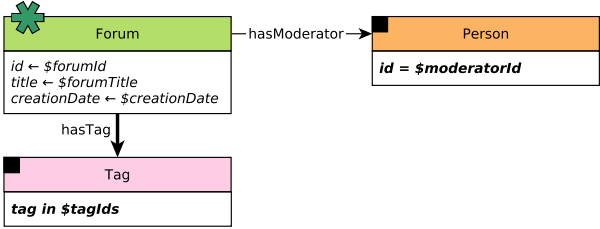
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INS 1	query	Interactive / insert / 2													
INS 2	title	Add like to post													
INS 3	pattern	<pre> graph LR Person[Person] -- likes --> Post[Post] </pre> <p>Person: $id = \\$personId$</p> <p>Post: $id = \\$postId$</p>													
INS 4	desc.	Add a likes <i>edge</i> to a Post.													
INS 5	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> <tr><td>3</td><td>creationDate</td><td>DateTime</td><td></td></tr> </table>		1	personId	ID		2	postId	ID		3	creationDate	DateTime	
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2	postId	ID													
3	creationDate	DateTime													
INS 6	CPs	9.2													

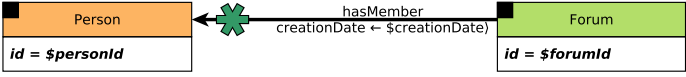
Interactive / insert / 3

INS 1	query	Interactive / insert / 3		
INS 2	title	Add like to comment		
INS 3	pattern			
INS 4	desc.	Add a likes <i>edge</i> to a Comment.		
INS 5	params	1	personId	ID
INS 6		2	commentId	ID
INS 7		3	creationDate	DateTime
INS 8	CPs	9.2		

Interactive / insert / 4

INS 1	query	Interactive / insert / 4		
INS 2	title	Add forum		
INS 3	pattern			
INS 4	desc.	Add a Forum <i>node</i> , connected to the network by 2 possible <i>edge</i> types.		
INS 5	params	1	forumId	ID
INS 6		2	forumTitle	Long String
INS 7		3	creationDate	DateTime
INS 8		4	moderatorId	ID
		5	tagIds	{ID}
	CPs	9.1, 9.2		

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INS 1	query	Interactive / insert / 5		
INS 2	title	Add forum membership		
INS 3	pattern			
INS 4	desc.	Add a Forum membership <i>edge</i> (hasMember) to a Person.		
INS 5	params	1	personId	ID
INS 6		2	forumId	ID
INS 7		3	creationDate	DateTime
INS 8	CPs	9.1, 9.2		

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INS 1
INS 2
INS 3
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INS 6
INS 7
INS 8

query	Interactive / insert / 6		
title	Add post		
pattern			
desc.	Add a Post <i>node</i> to the social network connected by 4 possible <i>edge</i> types (hasCreator, containerOf, isLocatedIn, hasTag).		
params	1	postId	ID
	2	imageFile	String
	3	creationDate	DateTime
	4	locationIP	String
	5	browserUsed	String
	6	language	String
	7	content	Text
	8	length	32-bit Integer
	9	authorPersonId	ID
	10	forumId	ID
	11	countryId	ID
	12	tagIds	{ID}
CPs	9.1, 9.2		

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INS 1

INS 2

INS 3

INS 4

INS 5

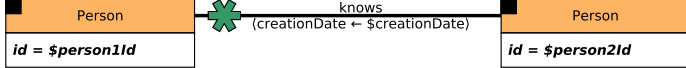
INS 6

INS 7

INS 8

query	Interactive / insert / 7																																														
title	Add comment																																														
pattern																																															
desc.	Add a Comment <i>node</i> replying to a Post/Comment, connected to the network by 4 possible <i>edge</i> types (replyOf, hasCreator, isLocatedIn, hasTag).																																														
params	<table><tr><td>1</td><td>commentId</td><td>ID</td><td></td></tr><tr><td>2</td><td>creationDate</td><td>DateTime</td><td></td></tr><tr><td>3</td><td>locationIP</td><td>String</td><td></td></tr><tr><td>4</td><td>browserUsed</td><td>String</td><td></td></tr><tr><td>5</td><td>content</td><td>Text</td><td></td></tr><tr><td>6</td><td>length</td><td>32-bit Integer</td><td></td></tr><tr><td>7</td><td>authorPersonId</td><td>ID</td><td></td></tr><tr><td>8</td><td>countryId</td><td>ID</td><td></td></tr><tr><td>9</td><td>replyToPostId</td><td>ID</td><td>−1 if the Comment is a reply of a Comment</td></tr><tr><td>10</td><td>replyToCommentId</td><td>ID</td><td>−1 if the Comment is a reply of a Post</td></tr><tr><td>11</td><td>tagIds</td><td>{ID}</td><td></td></tr></table>			1	commentId	ID		2	creationDate	DateTime		3	locationIP	String		4	browserUsed	String		5	content	Text		6	length	32-bit Integer		7	authorPersonId	ID		8	countryId	ID		9	replyToPostId	ID	−1 if the Comment is a reply of a Comment	10	replyToCommentId	ID	−1 if the Comment is a reply of a Post	11	tagIds	{ID}	
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Interactive / insert / 8

INS 1	query	Interactive / insert / 8												
INS 2	title	Add friendship												
INS 3	pattern													
INS 4														
INS 5														
INS 6	desc.	Add a friendship <i>edge</i> (knows) between two Persons.												
INS 7	params													
INS 8		<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><tr><td>3</td><td>creationDate</td><td>DateTime</td><td></td></tr></table>	1	person1Id	ID		2	person2Id	ID		3	creationDate	DateTime	
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3	creationDate	DateTime												
	CPs	9.2												