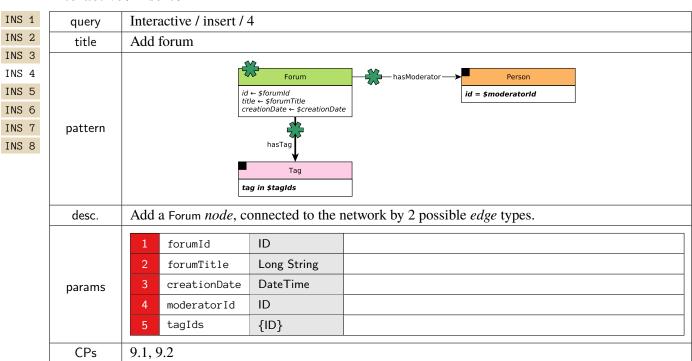
INS 1	query	Interactive / insert / 1			
NS 2	title	Add person			
INS 3 INS 4 INS 5 INS 6 INS 7 INS 8	pattern	City  id = \$cityId  Tag  id in \$tagIds	Person  id ← \$personld firstName ← \$personFirs lastName ← \$lastName gender ← \$gender birthday ← \$birthday creationDate ← \$creatio locationIP ← \$locationIP browserUsed ← \$browse {speaks} ← \$languages {email} ← \$emails	workAt workFrom ← \$workAt[j].workFrom}	Iniversity  id = \$studyAt[i].universityId  Company  id = \$workAt[j].companyId
	desc.	Add a Person node, connec	cted to the netwo	ork by 4 possible <i>edge</i> types.	
	params	personFirstName 9 personLastName 9 perso	Integer>}	{ <universityid, classyear="">} {<companyid, workfrom="">}</companyid,></universityid,>	
	CPs	9.1, 9.2			

## Interactive / insert / 2

INS 1	query	Interactive / insert / 2		
INS 2	title	Add like to post		
INS 3				
INS 4	pattern	$\begin{array}{c c} & \text{likes} & \\ \hline & \text{(creationDate)} & \\ \hline \end{array}$		
INS 5	'	id = \$postId		
INS 6	desc.	Add a likes <i>edge</i> to a Post.		
INS 7				
INS 8		1 personId ID		
	params	2 postId ID		
		3 creationDate DateTime		
	CPs	9.2		

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

#### Interactive / insert / 4



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

### **Interactive / insert / 6**

INS 1	query	Interactive / insert / 6
INS 2	title	Add post
INS 3 INS 4 INS 5 INS 6 INS 7 INS 8	pattern	Person  id = \$authorPersonId  Forum  id = \$forumId  Forum  containerOf  Post  id $\leftarrow$ \$postId  imageFile $\leftarrow$ \$freationDate  locationIP $\leftarrow$ \$locationIP  browserUsed $\leftarrow$ \$browserUsed  language $\leftarrow$ \$language  content $\leftarrow$ \$content  length $\leftarrow$ \$length
	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

INS 1	query	Interactive / insert / 7				
INS 2	title	Add comment				
INS 3 INS 4 INS 5 INS 6 INS 7	pattern	Person  id = \$authorPersonId  Post  id = \$replyToPostId	crea	Comment \$commentId tionDate ← \$creationDate	isLocatedIn —	Country  id = \$countryId
INS 8		Comment  id = \$replyToCommentId	-replyOf brow	tionIP ← \$locationIP  //serUsed ← \$browserUsed  ent ← \$content  th ← \$length	hasTag —	Tag id in \$tagIds
	desc. Add a Comment <i>node</i> replying to a Post/Comment, connected to the network by 4 ptypes (replyOf, hasCreator, isLocatedIn, hasTag).			ork by 4 possible edge		
	params	1 commentId 2 creationDate 3 locationIP 4 browserUsed 5 content 6 length 7 authorPersonId 8 countryId 9 replyToPostId 10 replyToCommentId 11 tagIds	ID DateTime String String Text 32-bit Integer ID ID ID ID	-1 if the Comme		
		taglds	{ID}			

# Interactive / insert / 8

CPs

9.1, 9.2

INS 1	query	Interactive / insert / 8			
INS 2	title	Add friendship			
INS 3					
INS 4	pattern	$\frac{\text{knows}}{\text{(creationDate)}} \qquad \frac{\text{Person}}{\text{Person}}$			
INS 5		id = \$person2Id			
INS 6	desc.	Add a friendship <i>edge</i> (knows) between two Persons.			
INS 7					
INS 8		1 person1Id ID			
	params	2 person2Id ID			
		3 creationDate DateTime			
	CPs	9.2			