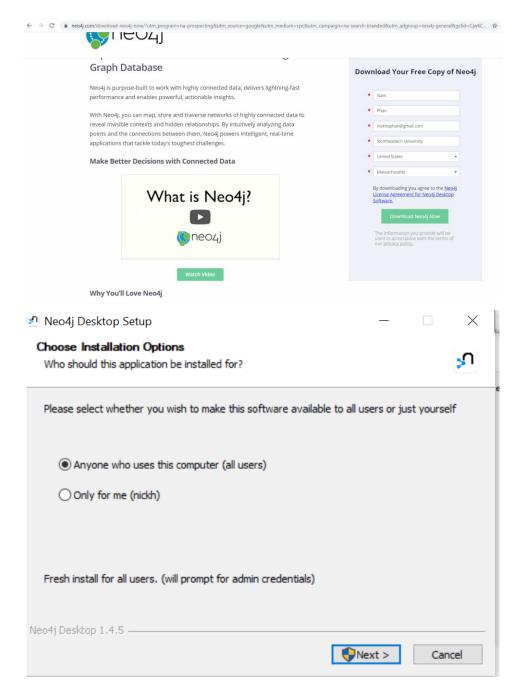
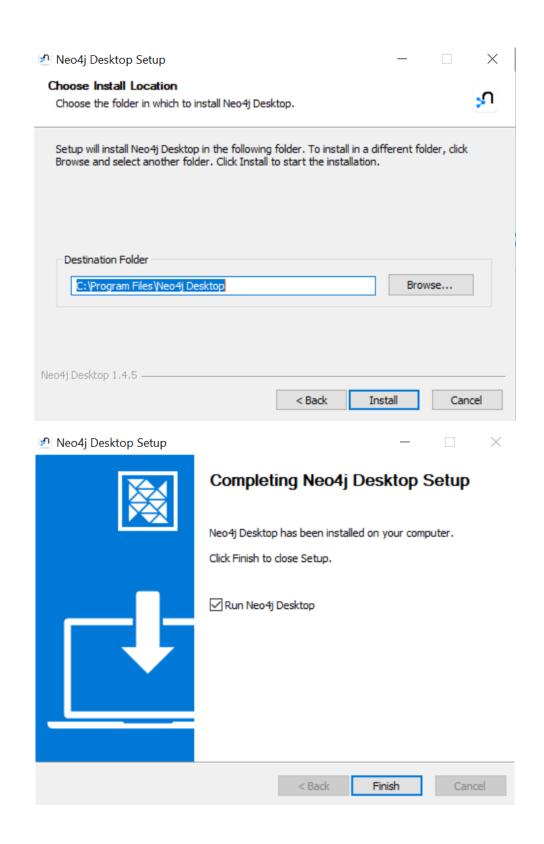
Nam Ho Phan

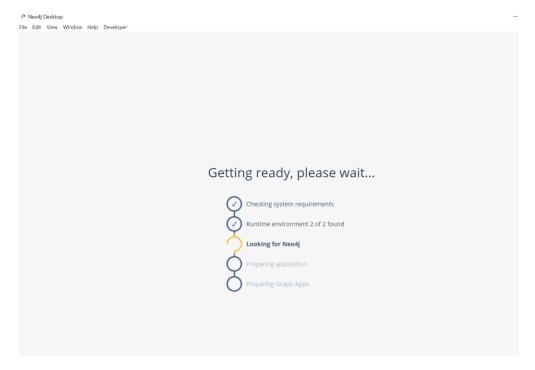
Northeastern University

How to use neo4j to visualize real-time data

To install neo4j, I must go to its website and register by my email. After downloading the install file into computer successfully, I run that file to set up it in my desktop.

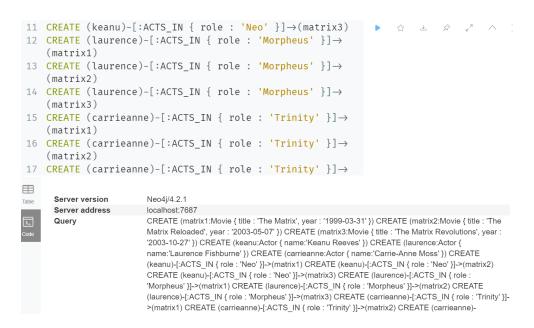






Problem 2:

For problem 2, I use CREATE function to load information into database



Problem 3:

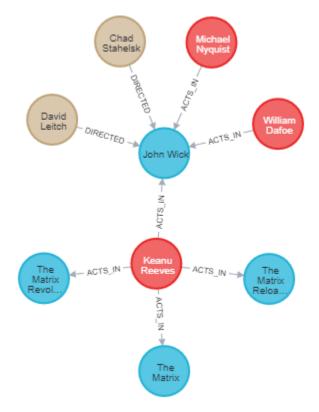
For problem 3, I also use CREATE to set up information with the title of movie, relevant actors, and directors.

[:ACTS_IN { role : 'Trinity' }]->(matrix3) CREATE (JohnWick:Movie { title : 'John Wick'}) CREATE (William:Actor { name:'William Dafoe' }) CREATE (Michael:Actor { name:'Michael Nyquist' }) CREATE (Chad:Director { name:'David Leitch' }) CREATE

(Chad:Director { name:'Chad Stahelsk' }) CREATE (David:Director { name:'David Leitch' }) CREATE (keanu)-[:ACTS_IN] -> (JohnWick) CREATE (William)-[:ACTS_IN] -> (JohnWick) CREATE (Micheal)-[:ACTS_IN] -> (JohnWick) CREATE (Chad) - [:DIRECTED] -> (JohnWick) CREATE (David) -

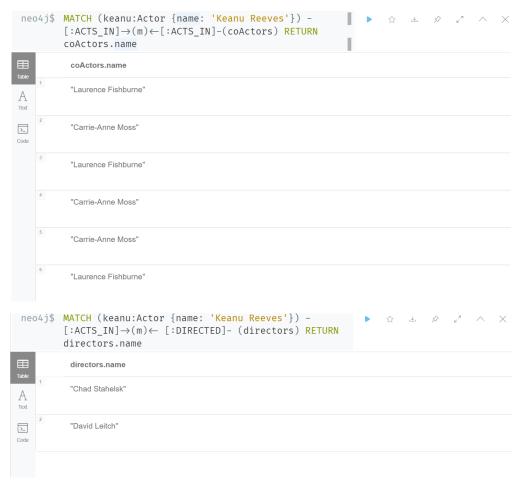
[:DIRECTED] -> (JohnWick)

To visualize the node John Wick, I use MATCH function and it will give back to me the nodes and relationship related to John Wick.



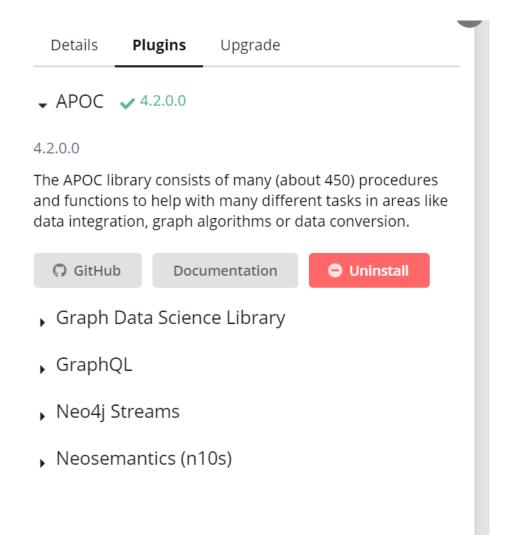
Problem 4:

To find co actors, I use MATCH function with name as 'Keanu Reeves', and use [:ACTS_IN] variable to set the relation.



Problem 5:

To be able to export and import the csv file, I must install APOC in plugins.



To export the database, I will use CALL, YIELD, RETURN to save file into folder.

```
neo4j$ CALL apoc.export.csv.all("movies.csv", {})

1 MATCH (keanu:Person {name:"Keenu Reeves"})-
[:ACTED_IN]→(m)←[:ACTED_IN]-(coActors)

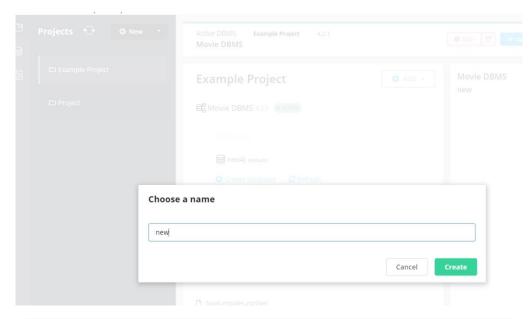
2 WITH collect(coActors) AS coActors

3 CALL apoc.export.csv.data(coActors, [],
"coActors.csv", {})

4 YIELD file, source, format, nodes, relationships,
properties, time, rows, batchSize, batches, done,
data

5 RETURN file, source, format, nodes, relationships,
properties, time, rows, batchSize, batches, done,
data
```

After that, I create new project as 'new' to open the database, then I use LOAD CSV from 'file:///file.csv' AS row to extract file from folder.



LOAD CSV FROM 'file:///directors.csv' AS row WITH toInteger(row[0]) AS ID, row[1] AS label, row[2] AS name RETURN ID, label, name

"ID"	 "label" 	"name"
null	"_labels"	"name"
65	":Director"	"David Leitch"
64	":Director"	"Chad Stahelsk"

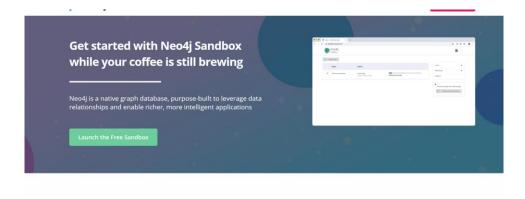
```
LOAD CSV FROM 'file:///coActors.csv' AS row WITH toInteger(row[0]) AS ID, row[1] AS label, row[2] AS name RETURN ID, label, name
```

"ID"	"label"	"name"
null	"_labels"	"name"
59 L	 ":Actor" 	 "Laurence Fishburne"
60	":Actor"	"Carrie-Anne Moss"
59 	":Actor"	"Laurence Fishburne"
60	":Actor"	"Carrie-Anne Moss"
59	":Actor"	"Laurence Fishburne"
60	":Actor"	"Carrie-Anne Moss"
63	":Actor"	"Michael Nyquist"
62 L	 ":Actor" 	"William Dafoe"

1 2	LOAD CSV FROM 'file:///movies.csv' AS row WITH toInteger(row[0]) AS ID, row[1] AS label, row[2] AS name,row[3] AS title,row[4] AS year, row[7] AS type, row[8] AS role RETURN ID, label, name,title,year,type,role							
	58	":Actor"	"Keanu Reeves"		" "	null	null	
Table	59	":Actor"	"Laurence Fishburne"	" "	" "	null	null	
A Text	60	":Actor"	"Carrie-Anne Moss"	" "	" "	null	null	
>_	61	":Movie"	" "	"John Wick"	" "	null	null	
Code	62	":Actor"	"William Dafoe"	" "	" "	null	null	
	63	":Actor"	"Michael Nyquist" 	" "	" "	null	null	
	64	 ":Director" 	"Chad Stahelsk"		" "	null	null	
	65	 ":Director" 	 "David Leitch" 	" "	 " " 	null	null	
	null	 null	null	null	 null	 "ACTS_IN" 	 "Neo" 	
	null	null	null	null	 null	 "ACTS_IN" 	"Neo"	
	null	null	null	null	null	 "ACTS_IN" 	"Neo" 	
	null	null	null	null	 null 	 "ACTS_IN" 	 "Morpheu 	

Problem 6:

I click on the link of Sandbox and click on the Launch icon below. After that, I use my email to register to use the application.

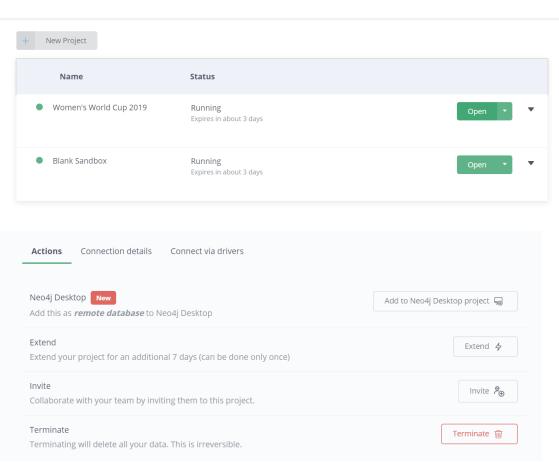


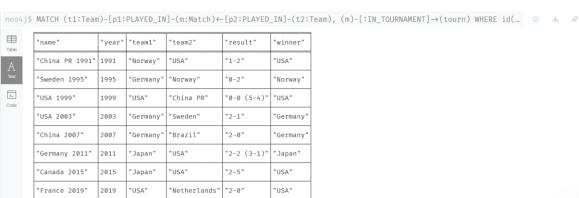
Experience Neo4j in a click with the Sandbox

Pick a project and get started in less than 60 seconds. *No download required*.

	neo4j
	neo4j
L	Log In Sign U
G	LOG IN WITH GOOGLE
in	LOG IN WITH LINKEDIN
y	LOG IN WITH TWITTER
	or
=	yours@example.com
	your password
D	Don't remember your password?
	LOG IN >

Below is the projects I try creating and run some codes to see the examples.









"t.name"	"t.year"	"count(*)"
"China PR 1991"	1991	12
"Sweden 1995"	1995	12
"USA 1999"	1999	16
"USA 2003"	2003	16
"China 2007"	2007	16
"Germany 2011"	2011	16
"Canada 2015"	2015	24

