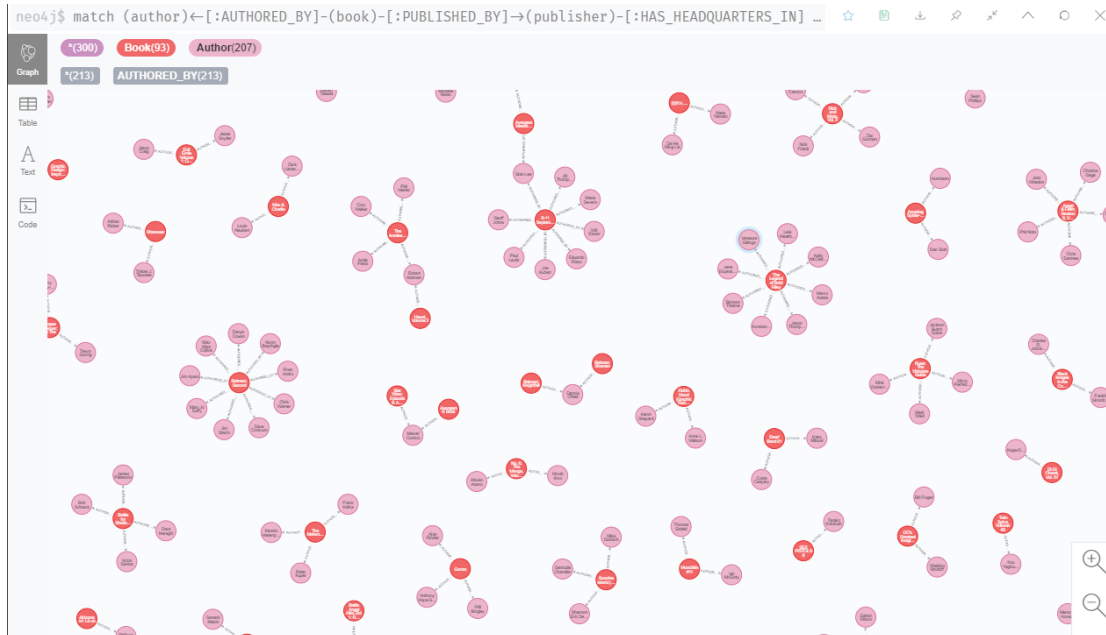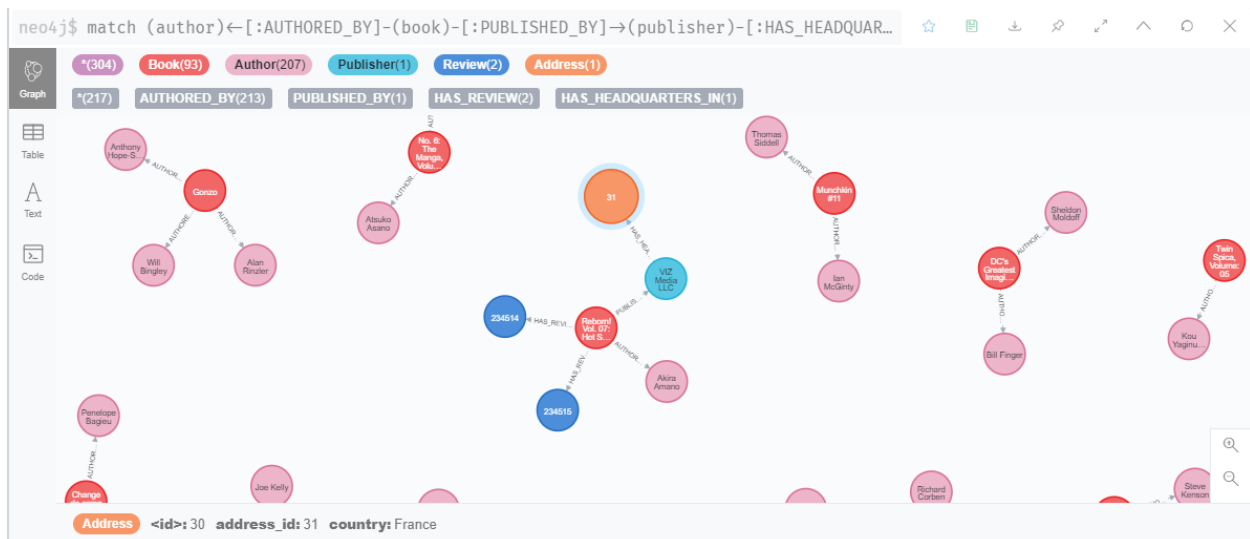# Mini Project 2

Assignment 3

Execution of the first query:

A random Book is picked, we can see that the country of the publisher's headquarters is indeed France.

For the second query, since all users in the data have five orders, some data needed to be added and removed in order to verify it.

// Remove an existing order with id 1 for user with id 1 and shipping address with id 1

// Remove edges SHIPPED_TO and HAS_ORDERED

match (user:User {user_id: 1}), (order:Order {order_id: 1}), (address:Address {address_id:1})

match (user)-[o:HAS_ORDERED]->(order)

match (order)-[s:SHIPPED_TO]->(address);

delete o, s

// Add the existing order with id 1 to user with id 8 and shipping address with id 8

// Add edges SHIPPED_TO and HAS_ORDERED
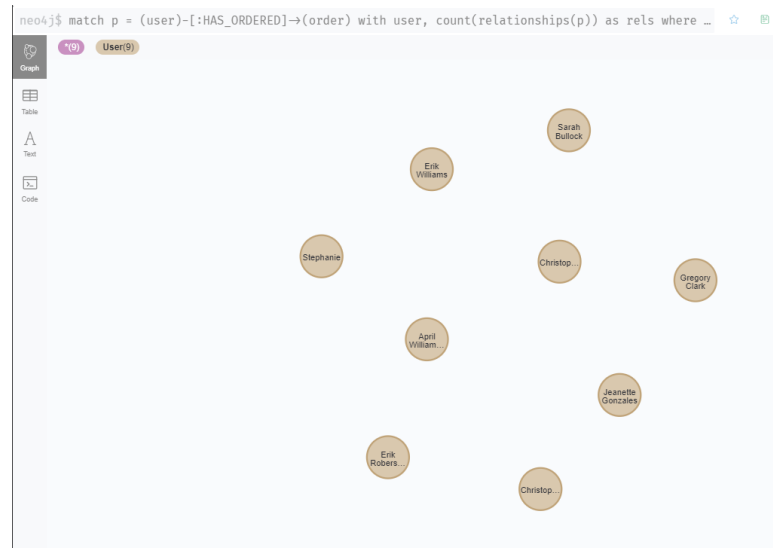
match (user:User {user_id: 8}), (order:Order {order_id: 1}), (address:Address {address_id:8})

merge (user)-[:HAS_ORDERED]->(order)

merge (order)-[:SHIPPED_TO]->(address);

now 8 users have 5 orders 1 has 6 and 1 has 4.

Execution of the second query:


```
neo4j$ match p = (user)-[:HAS_ORDERED]→(order) with user, count(relationships(p)) as rels where …    ☆    🖫
```

```
$ match p = (user)-[:HAS_ORDERED]→(order) with user, count(relationships
```

"user"	"rels"
{"real_name":"Christopher Ellis","user_id":8,"email":"nbecker@gmail.com","username":"castrochad"}	6
{"real_name":"Jeanette Gonzales","user_id":2,"email":"hfernandez@hotmail.com","username":"martha77"}	5
{"real_name":"Gregory Clark","user_id":3,"email":"monicahall@white.com","username":"juan40"}	5
{"real_name":"Christopher Yang","user_id":4,"email":"kenneth31@hotmail.com","username":"imyers"}	5
{"real_name":"Sarah Bullock","user_id":5,"email":"karen47@flores.com","username":"johnmorales"}	5
{"real_name":"Erik Williams","user_id":6,"email":"steven36@hotmail.com","username":"virginiajoseph"}	5
{"real_name":"Stephanie Garrett","user_id":7,"email":"walshjackie@gmail.com","username":"matthew76"}	5
{"real_name":"April Williamson","user_id":9,"email":"brownkatherine@hotmail.com","username":"ashlee02"}	5
{"real_name":"Erik Roberson","user_id":10,"email":"jessicareed@yahoo.com","username":"collinsdawn"}	5

We can see that 9 users are returned and that the top user has 6 orders while the others have 5. The user with 4 orders is not displayed at all.