CST3624 **Final Project**

Table 1

Book_Code	Book_Title	Publisher	Author
22	Stranger	Vintage	Camus
13	Dreamcatcher	Scribner	King
18	Beloved	Plume	Morrison
37	Nine	LB Books	Salinger
57	Catch 22	Scribner	Heller
61	Jazz	Plume	Morrison
69	Franny	LB Books	Salinger
75	Fall	Vintage	Camus
96	Grapes	Penguin	Morrison
98	Catcher	LB Books	Salinger

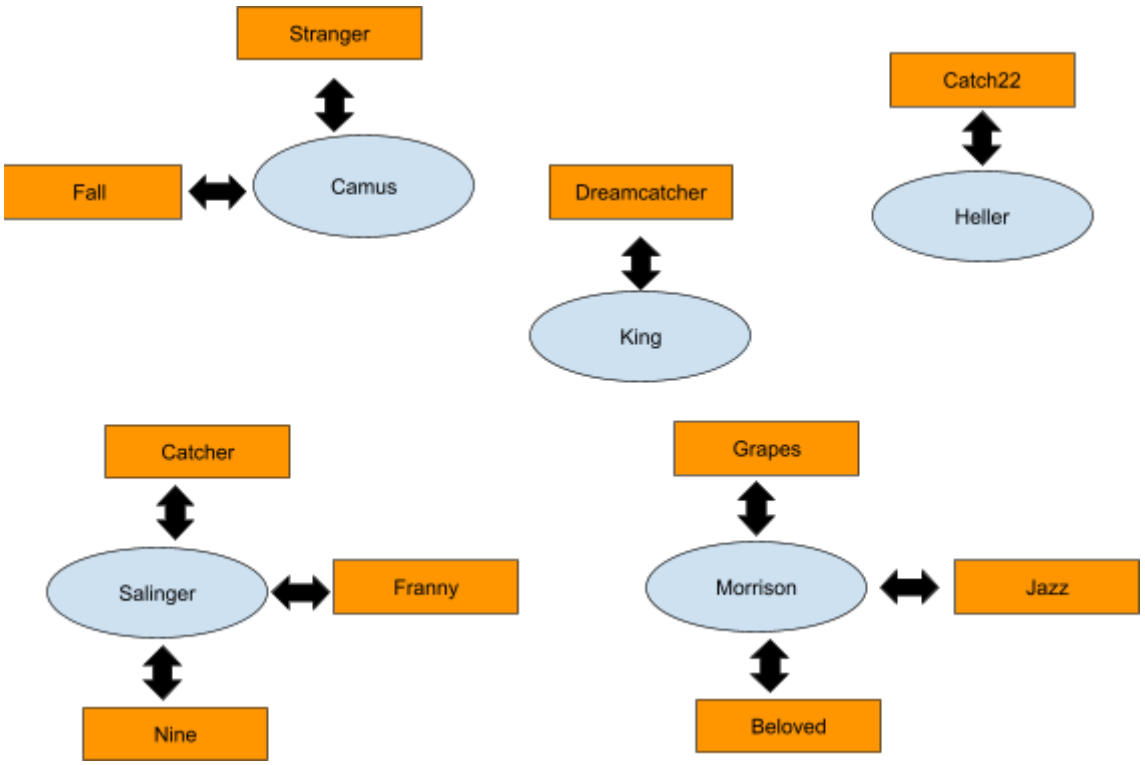
Graph Store – Use Neo4j

A. Access Neo4j to complete Part 3: https://sandbox.neo4j.com

B. For each of the following steps, include screenshots of your code and results

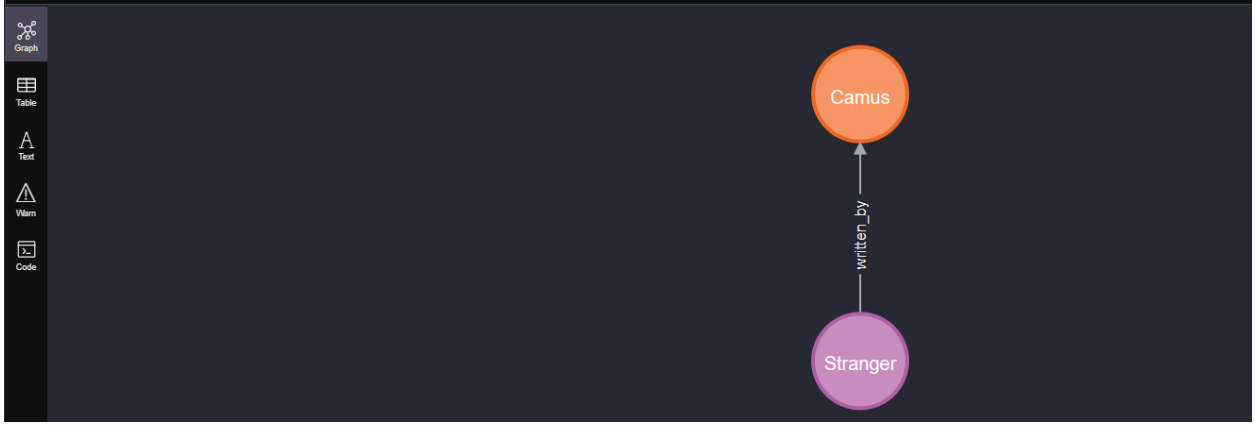
C. Use the data in Table 1 below

1. Graphically represent the relationship between author and book(s) – use word or any other graphic tool

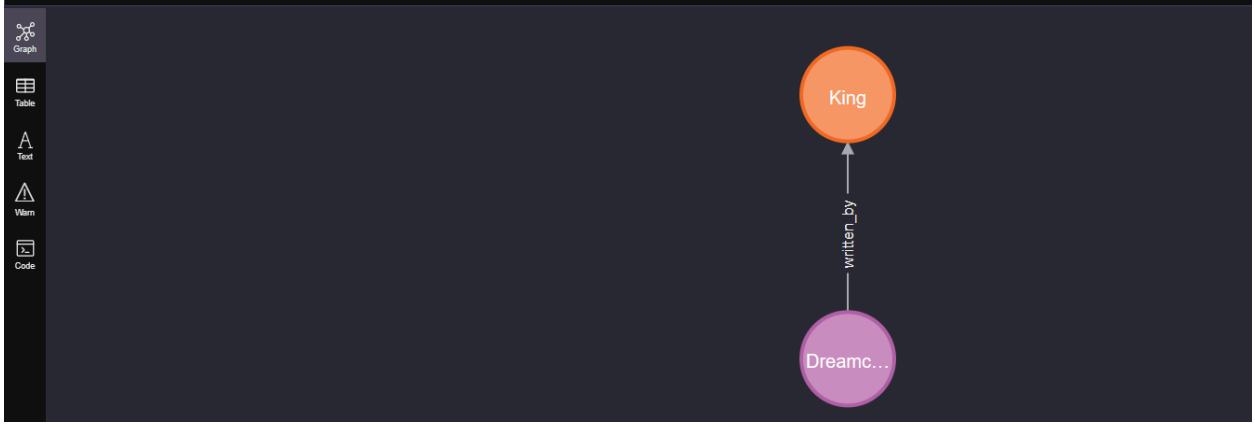


2. Use Neo4j code to create the relationships between author and books

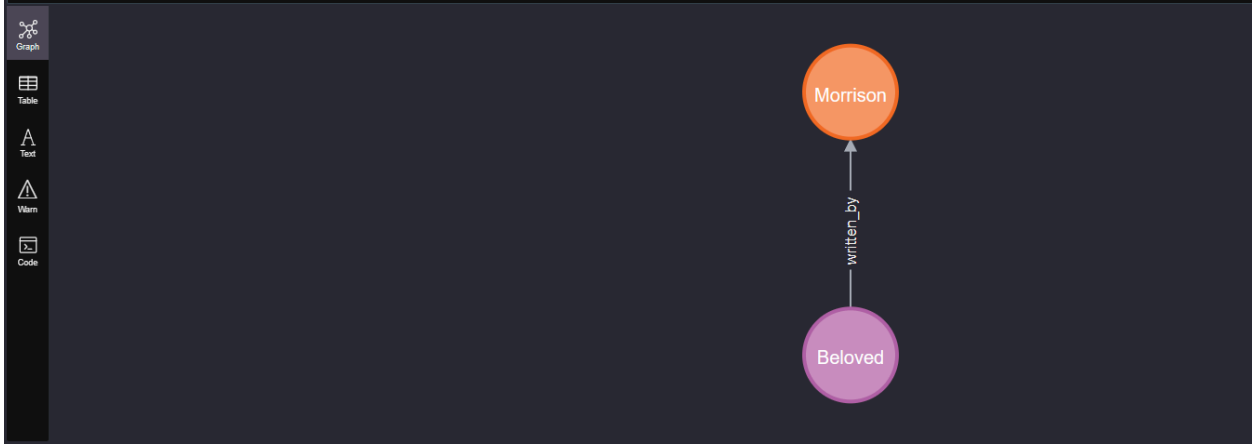
```
neo4j$ Match (a:book), (b:author) where a.title="Stranger" and b.author_name="Camus" Create (a)-[r:written_by]→(b) return a,b;
```



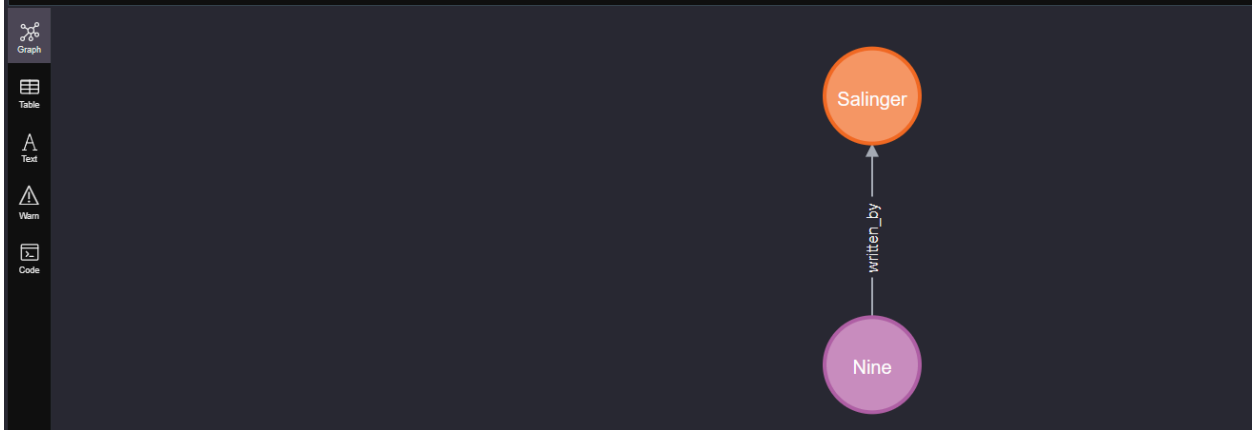

```
neo4j$ Match (a:book), (b:author) where a.title="Dreamcatcher" and b.author_name="King" Create (a)-[r:written_by]→(b) return a,b;
```




```
neo4j$ Match (a:book), (b:author) where a.title="Beloved" and b.author_name="Morrison" Create (a)-[r:written_by]→(b) return a,b;
```

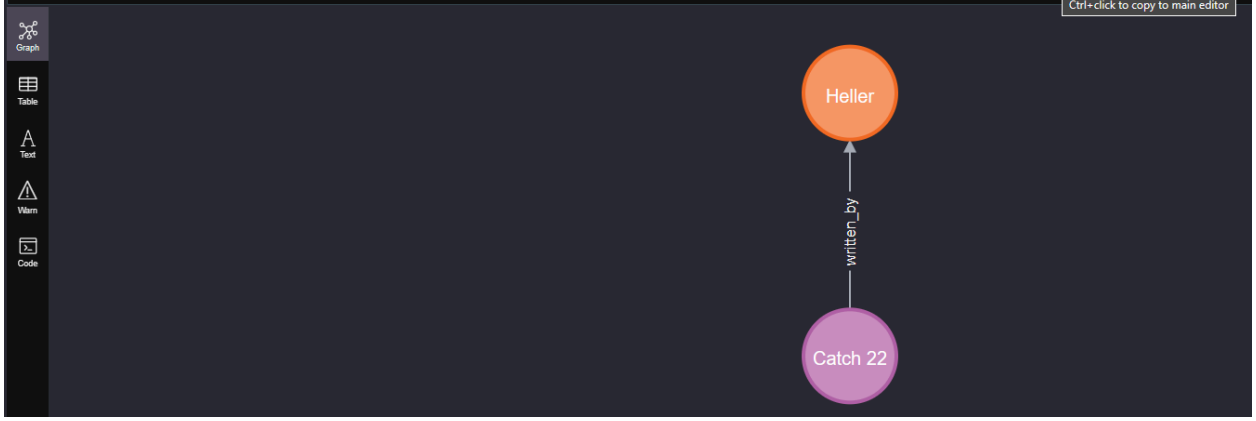


```
neo4j$ Match (a:book), (b:author) where a.title="Nine" and b.author_name="Salinger" Create (a)-[r:written_by]→(b) return a,b;
```

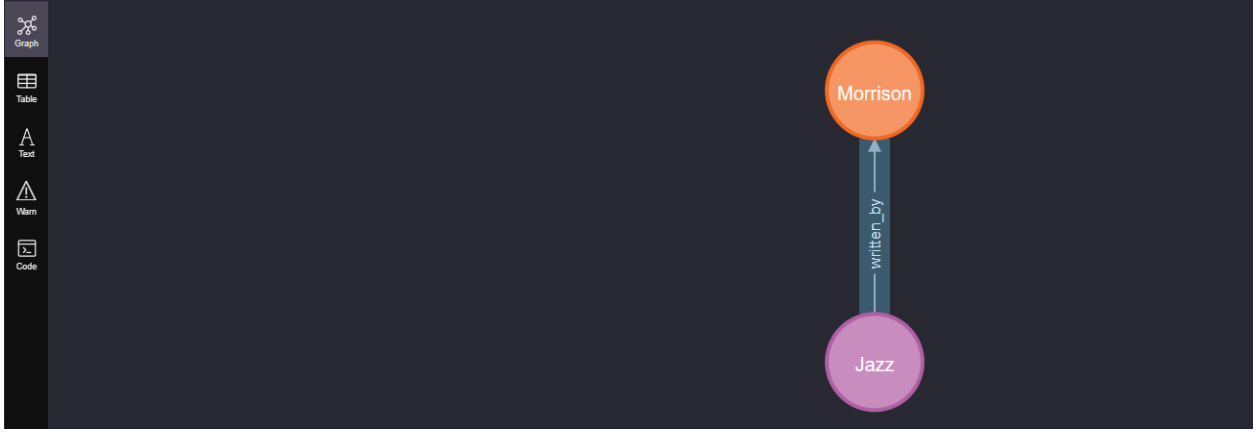



```
neo4j$ Match (a:book), (b:author) where a.title="Catch 22" and b.author_name="Heller" Create (a)-[r:written_by]→(b) return a,b;
```

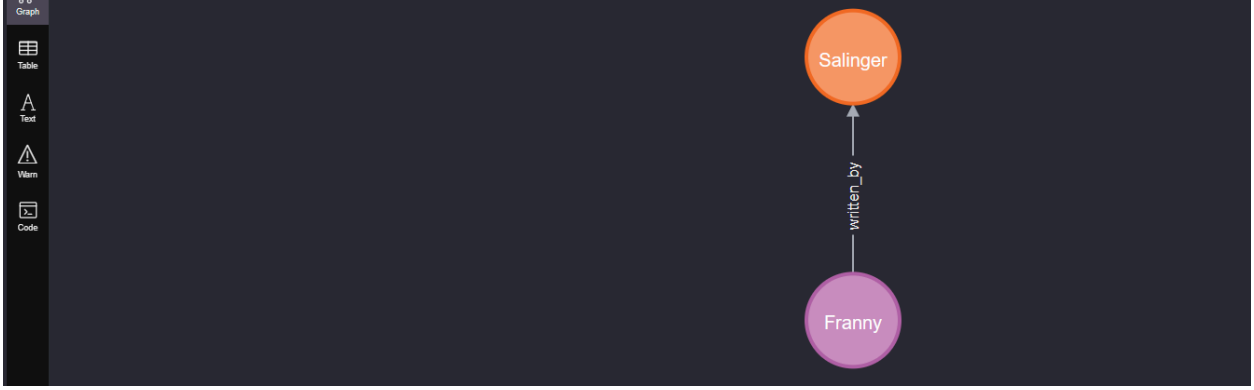
Ctrl+click to copy to main editor



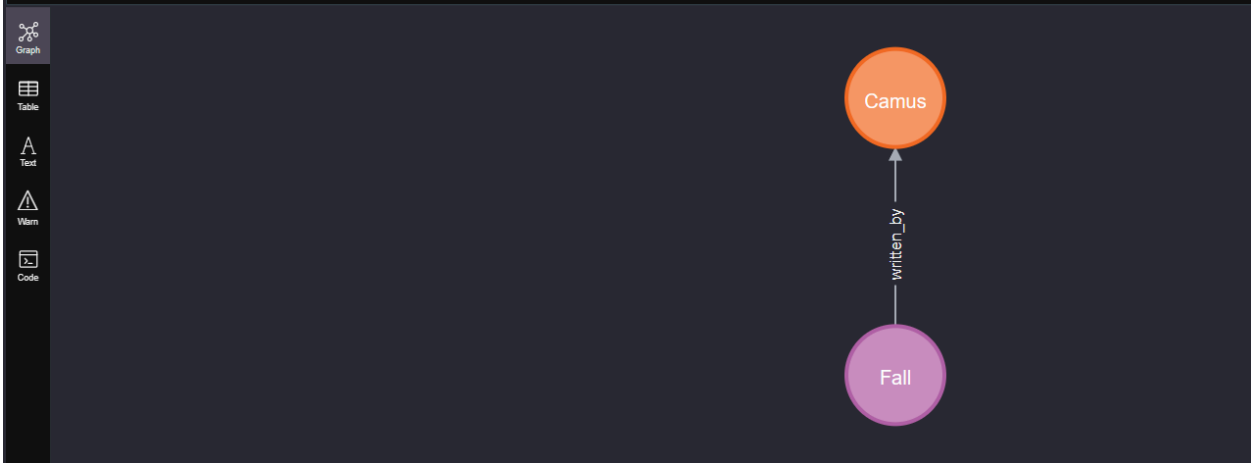

```
neo4j$ Match (a:book), (b:author) where a.title="Jazz" and b.author_name="Morrison" Create (a)-[r:written_by]→(b) return a,b;
```



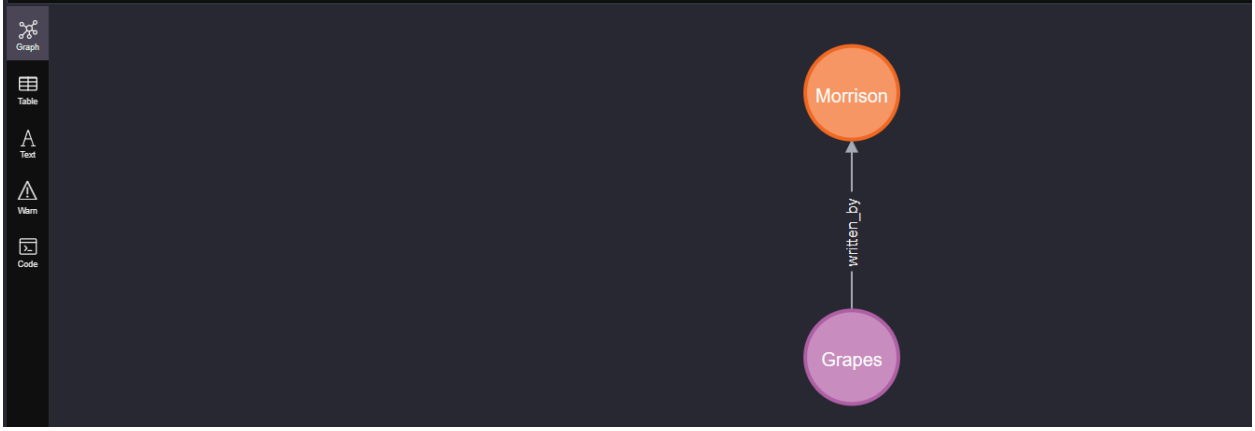
```
neo4j$ Match (a:book), (b:author) where a.title="Franny" and b.author_name="Salinger" Create (a)-[r:written_by]→(b) return a,b;
```

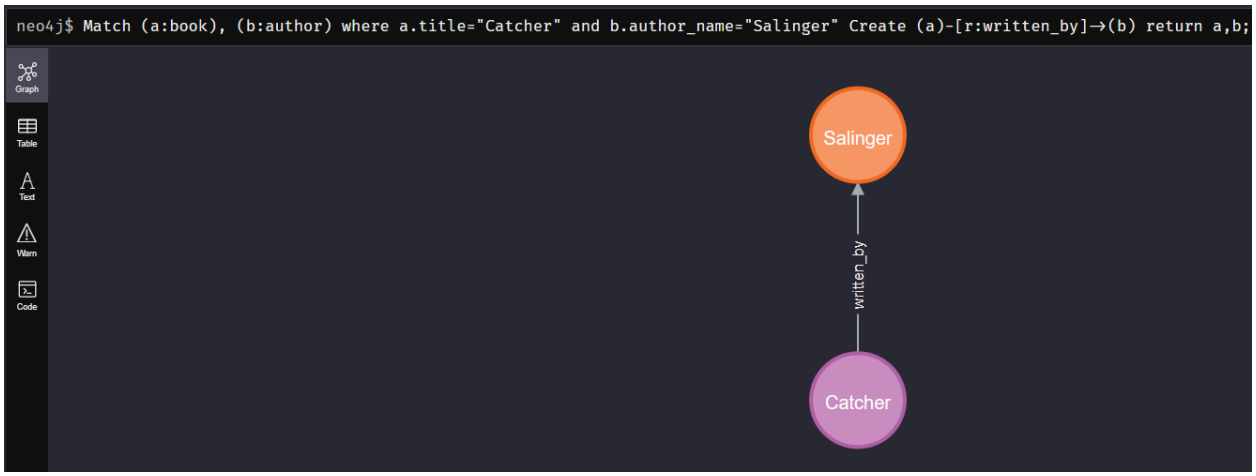



```
neo4j$ Match (a:book), (b:author) where a.title="Fall" and b.author_name="Camus" Create (a)-[r:written_by]→(b) return a,b;
```

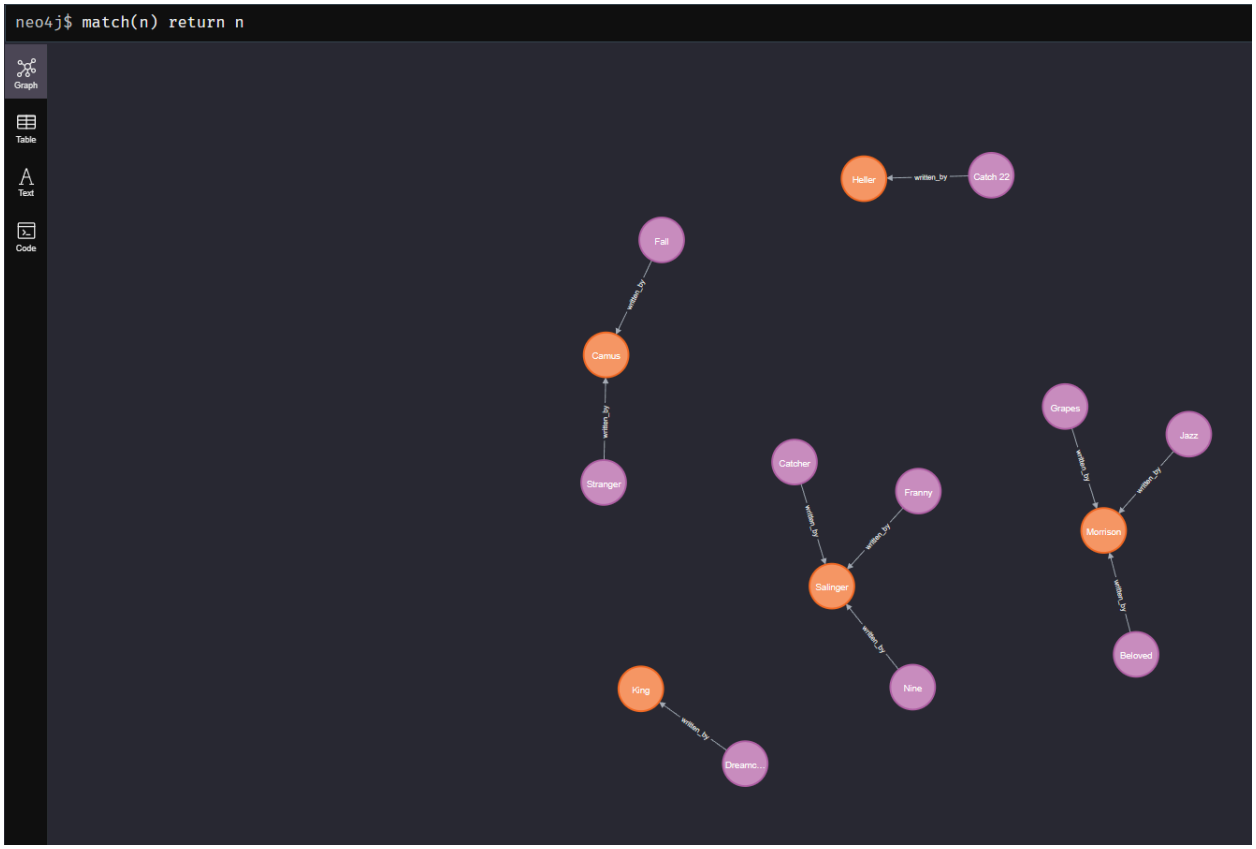



```
neo4j$ Match (a:book), (b:author) where a.title="Grapes" and b.author_name="Morrison" Create (a)-[r:written_by]→(b) return a,b;
```

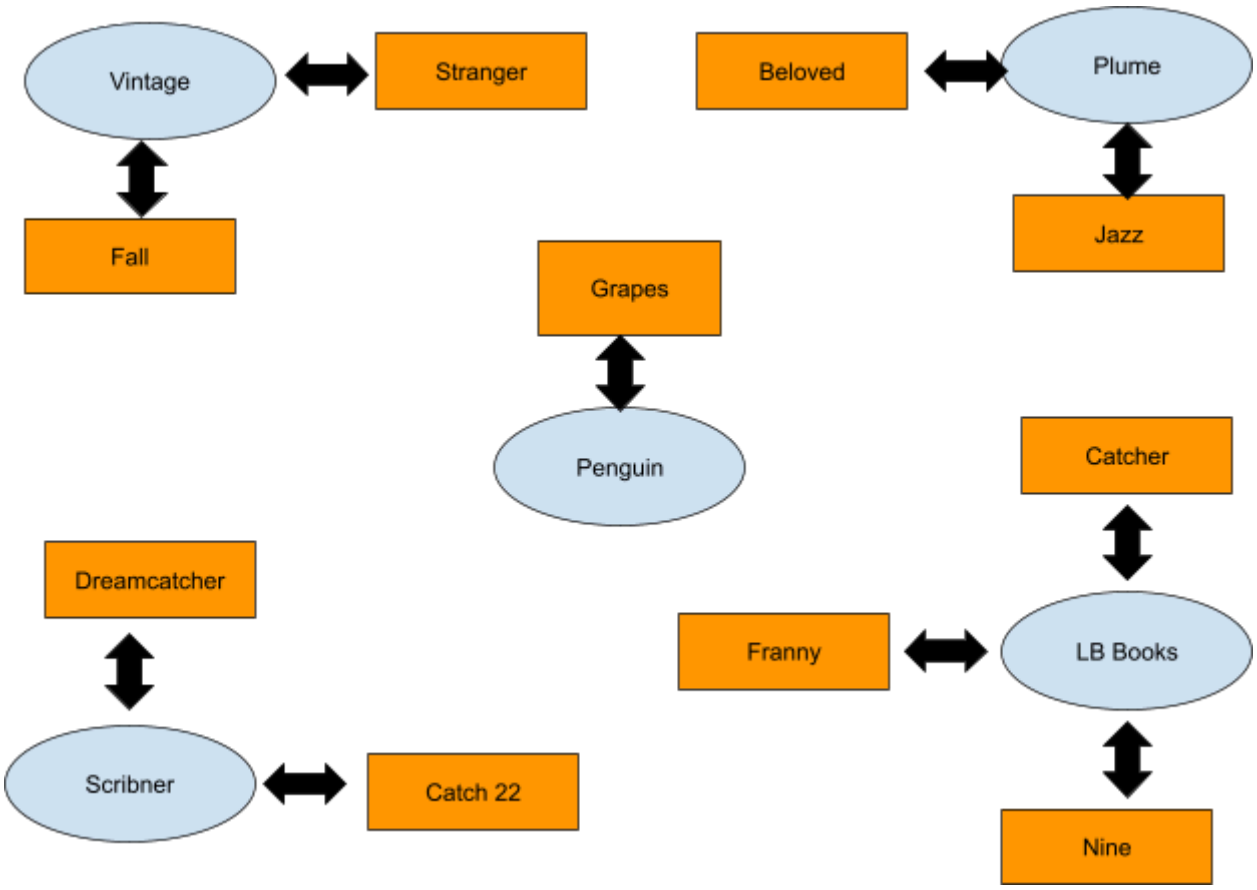




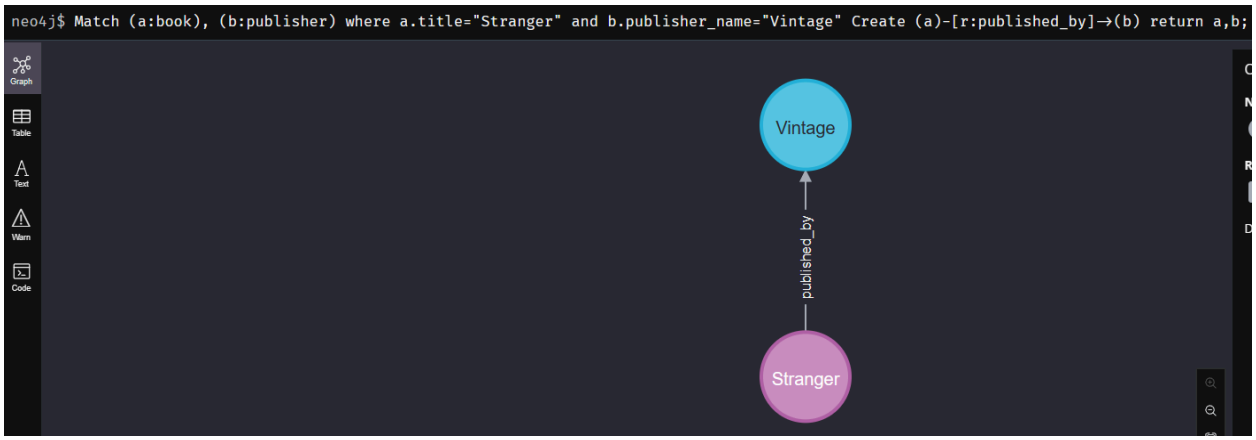
3. Show all the nodes and relationships



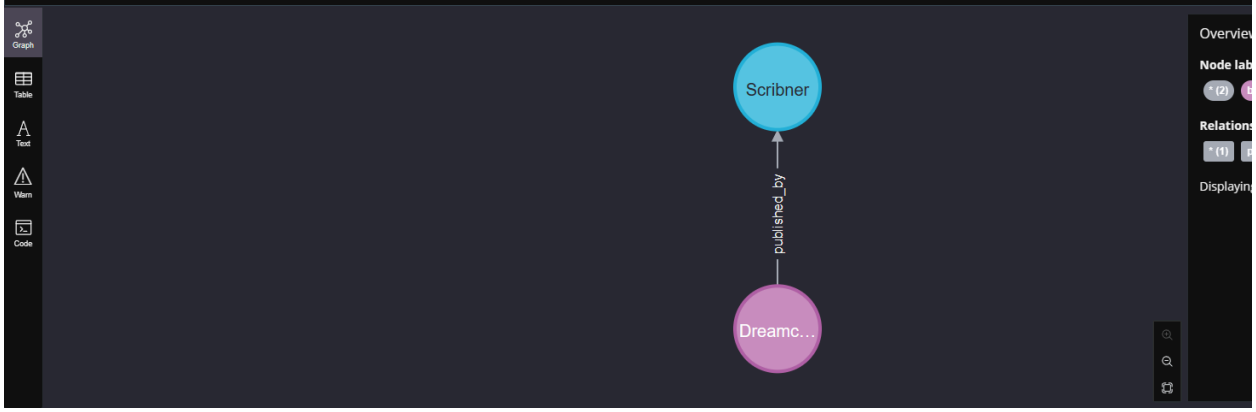
4. Graphically represent the relationship between publisher and book(s) – use word or any other graphic tool



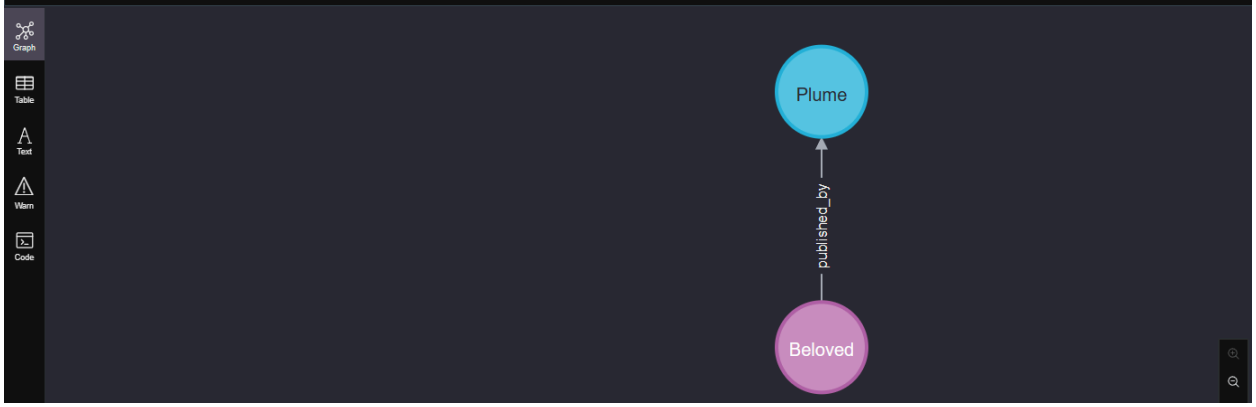
5. Use Neo4j code to create the relationships between publisher and book(s)



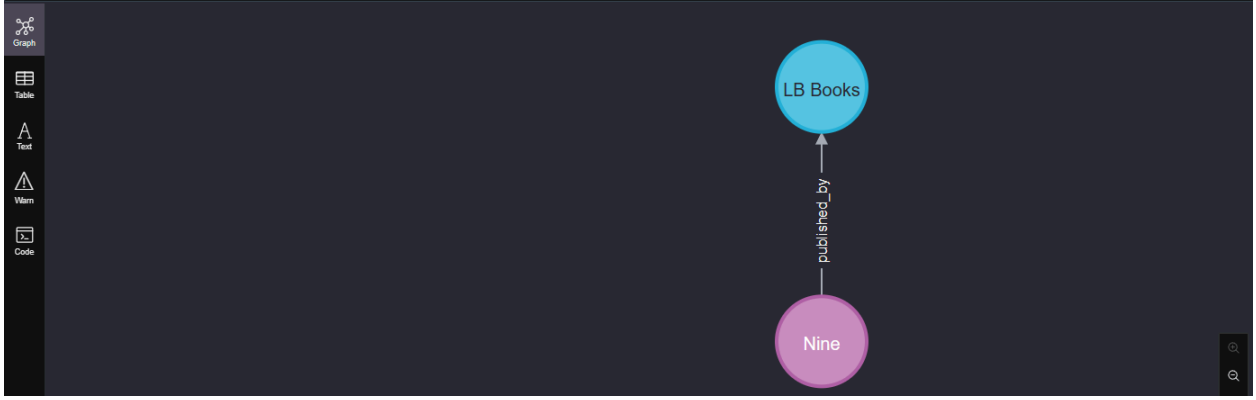
```
neo4j$ Match (a:book), (b:publisher) where a.title="Dreamcatcher" and b.publisher_name="Scribner" Create (a)-[r:published_by]→(b) return a,b;
```



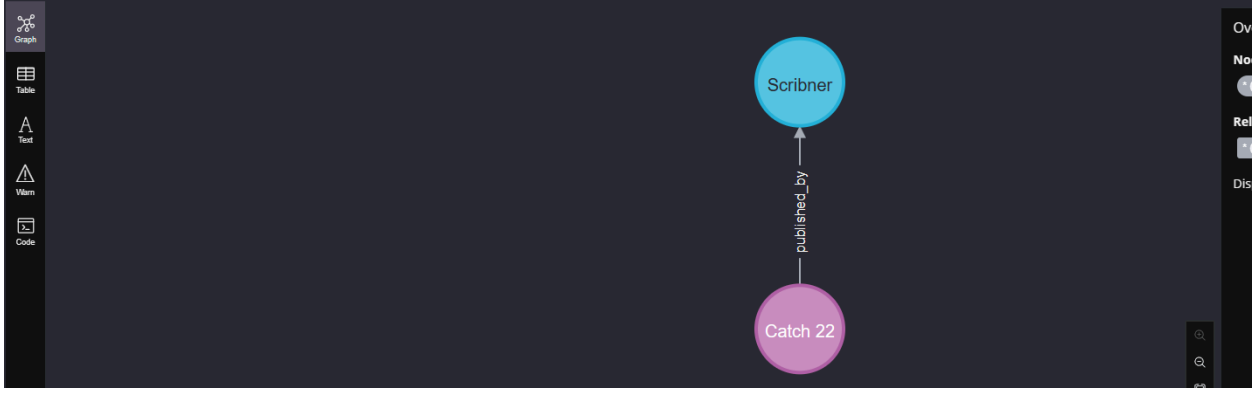

```
neo4j$ Match (a:book), (b:publisher) where a.title="Beloved" and b.publisher_name="Plume" Create (a)-[r:published_by]→(b) return a,b;
```



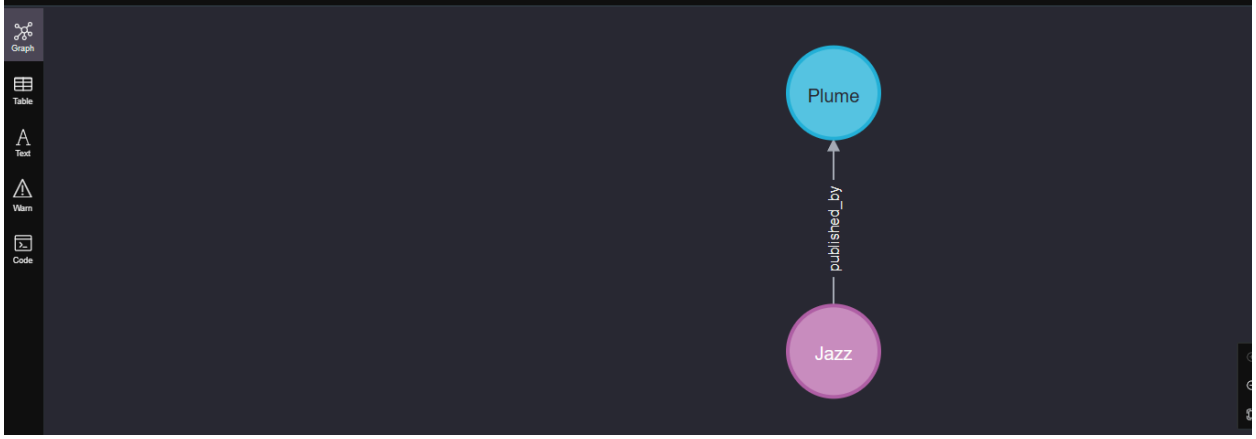

```
neo4j$ Match (a:book), (b:publisher) where a.title="Nine" and b.publisher_name="LB Books" Create (a)-[r:published_by]→(b) return a,b;
```



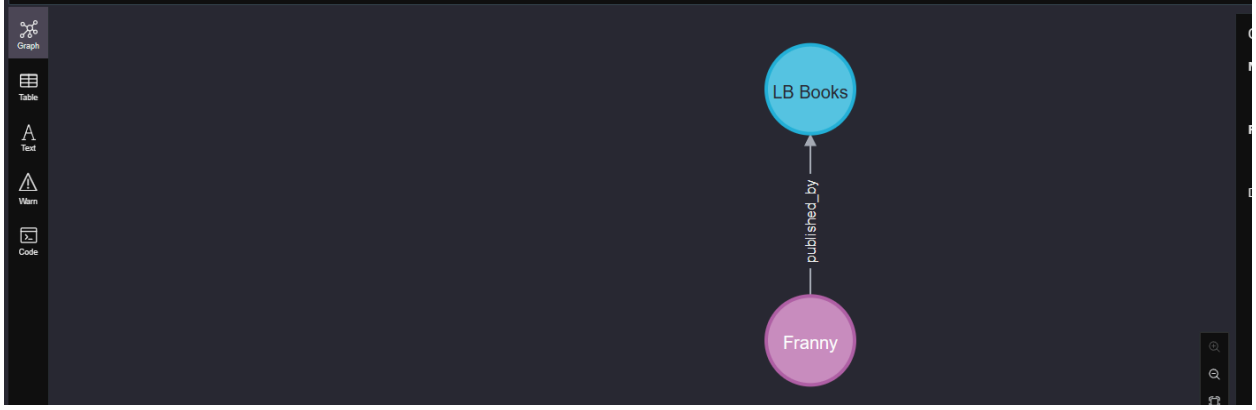
```
neo4j$ Match (a:book), (b:publisher) where a.title="Catch 22" and b.publisher_name="Scribner" Create (a)-[r:published_by]→(b) return a,b;
```



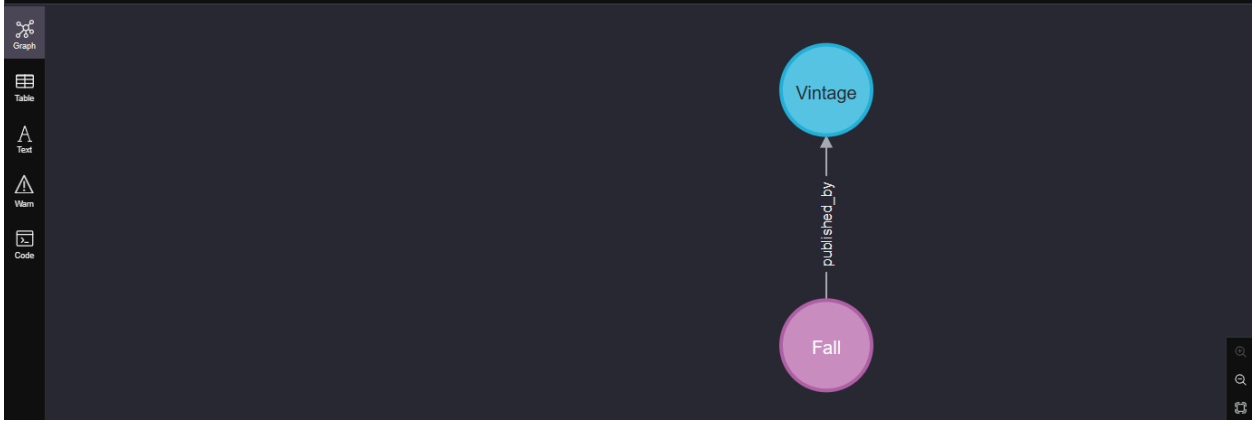

```
neo4j$ Match (a:book), (b:publisher) where a.title="Jazz" and b.publisher_name="Plume" Create (a)-[r:published_by]→(b) return a,b;
```



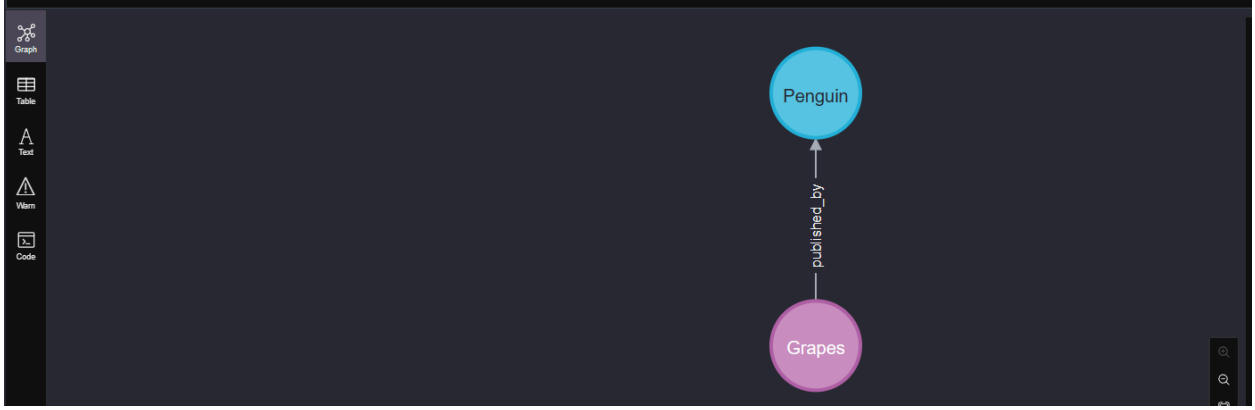

```
neo4j$ Match (a:book), (b:publisher) where a.title="Franny" and b.publisher_name="LB Books" Create (a)-[r:published_by]→(b) return a,b;
```



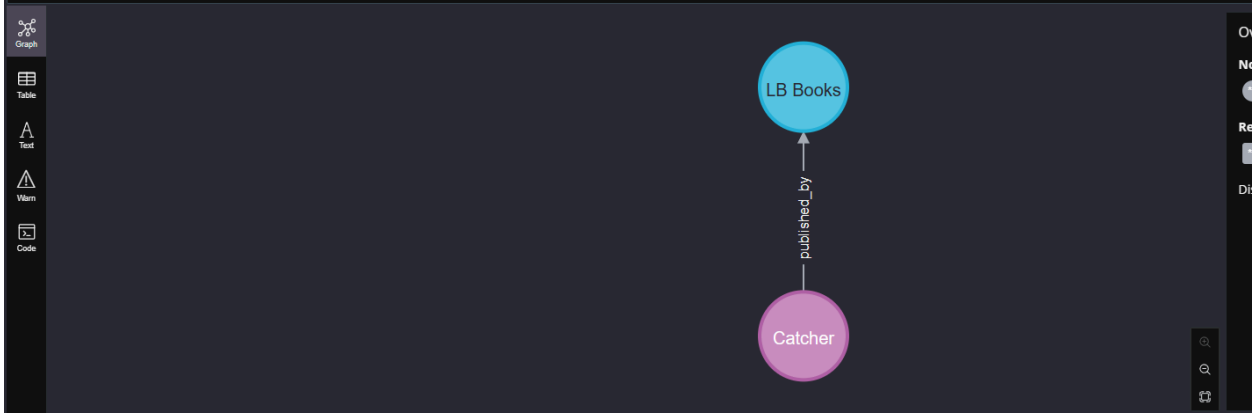
```
neo4j$ Match (a:book), (b:publisher) where a.title="Fall" and b.publisher_name="Vintage" Create (a)-[r:published_by]→(b) return a,b;
```



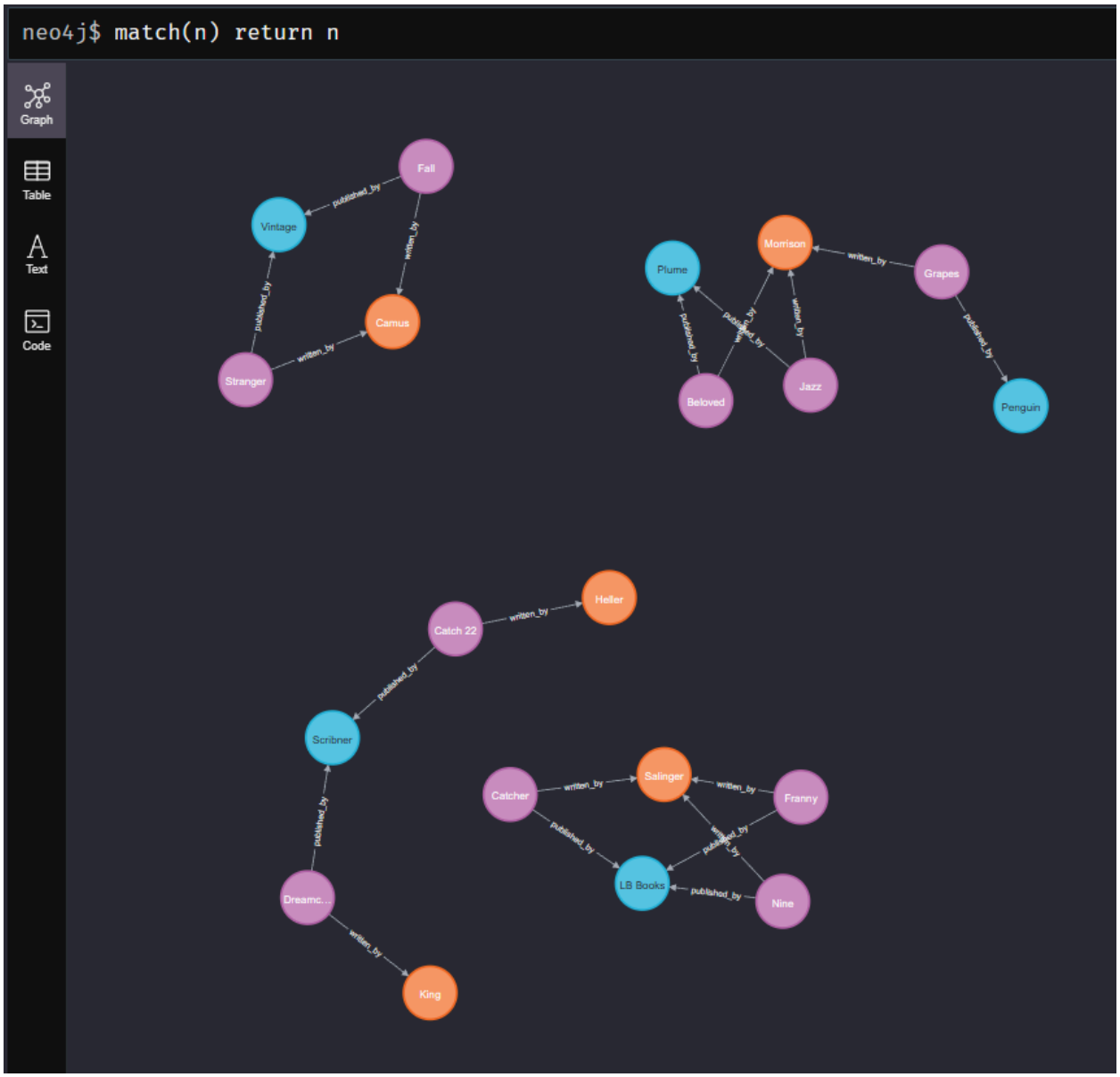

```
neo4j$ Match (a:book), (b:publisher) where a.title="Grapes" and b.publisher_name="Penguin" Create (a)-[r:published_by]→(b) return a,b;
```



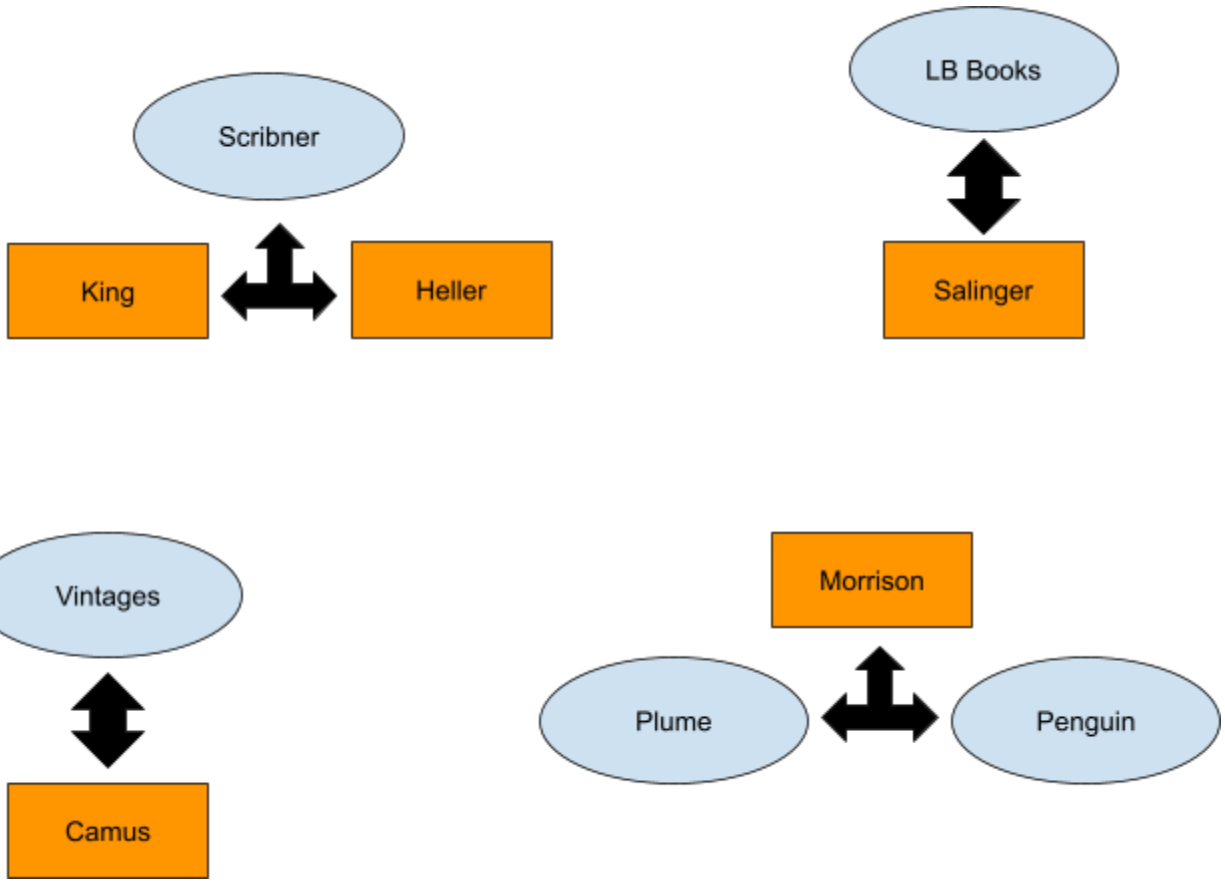

```
neo4j$ Match (a:book), (b:publisher) where a.title="Catcher" and b.publisher_name="LB Books" Create (a)-[r:published_by]→(b) return a,b;
```



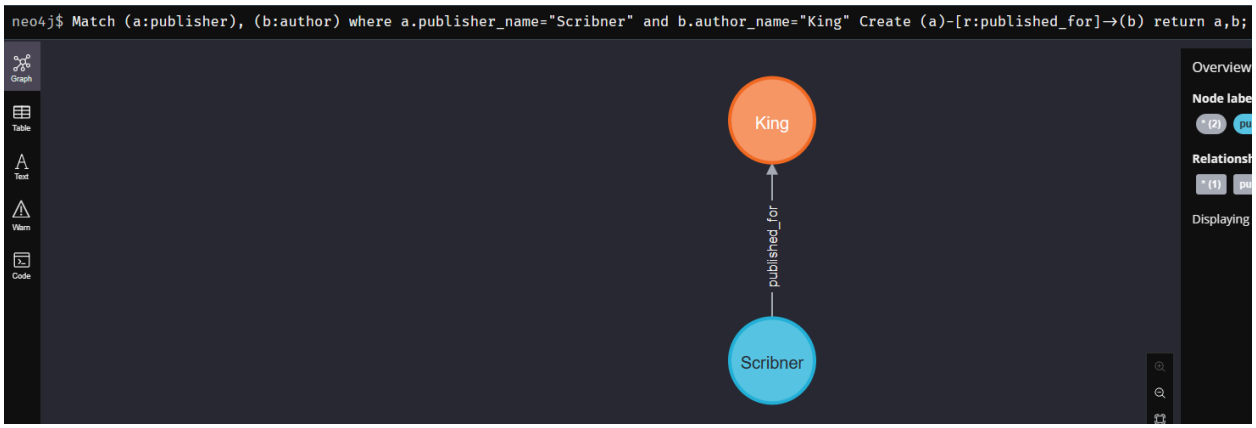
6. Show all the nodes and relationships



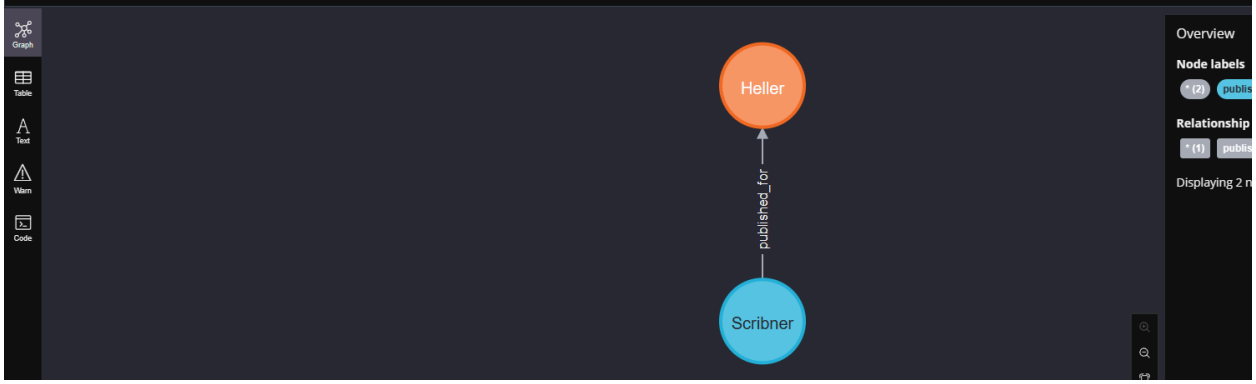
7. Graphically represent the relationship between publisher and author – use word or any other graphic tool



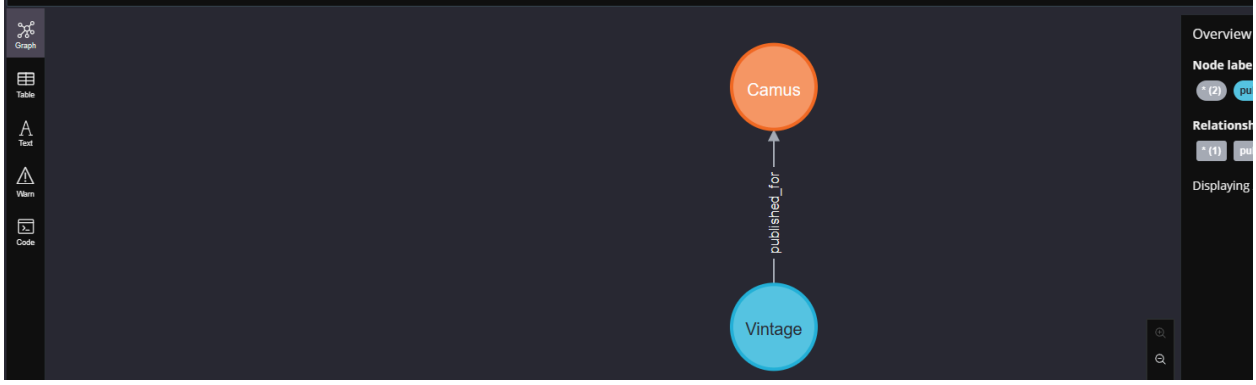
8. Use Neo4j code to create the relationships between publisher and author



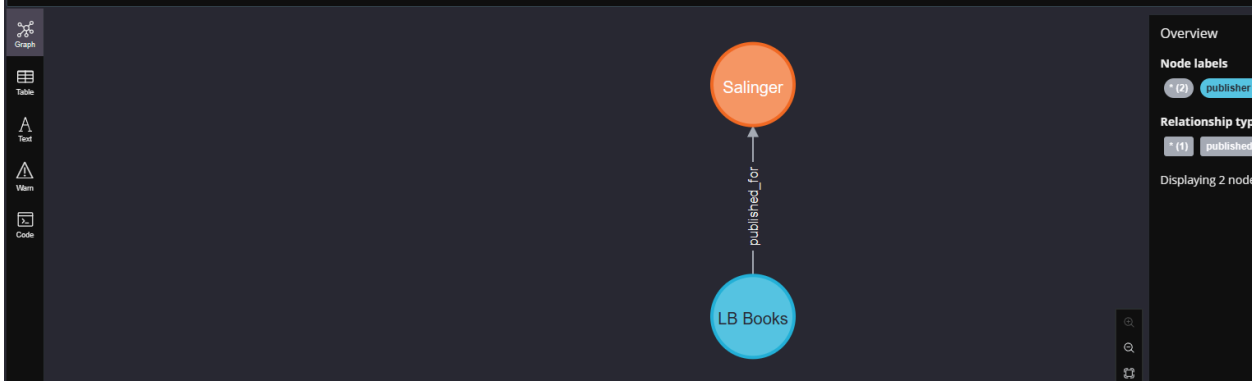
```
neo4j$ Match (a:publisher), (b:author) where a.publisher_name="Scribner" and b.author_name="Heller" Create (a)-[r:published_for]→(b) return a,b;
```

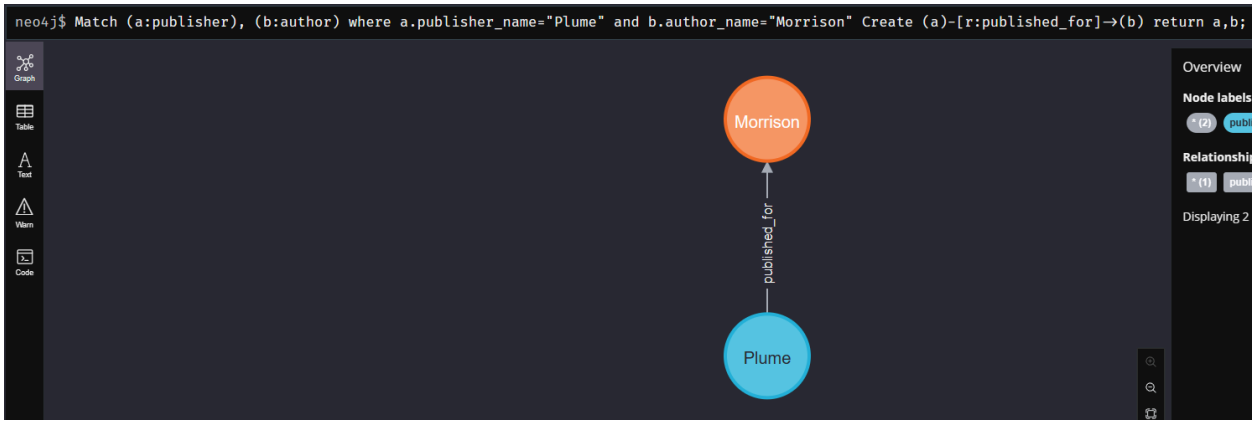


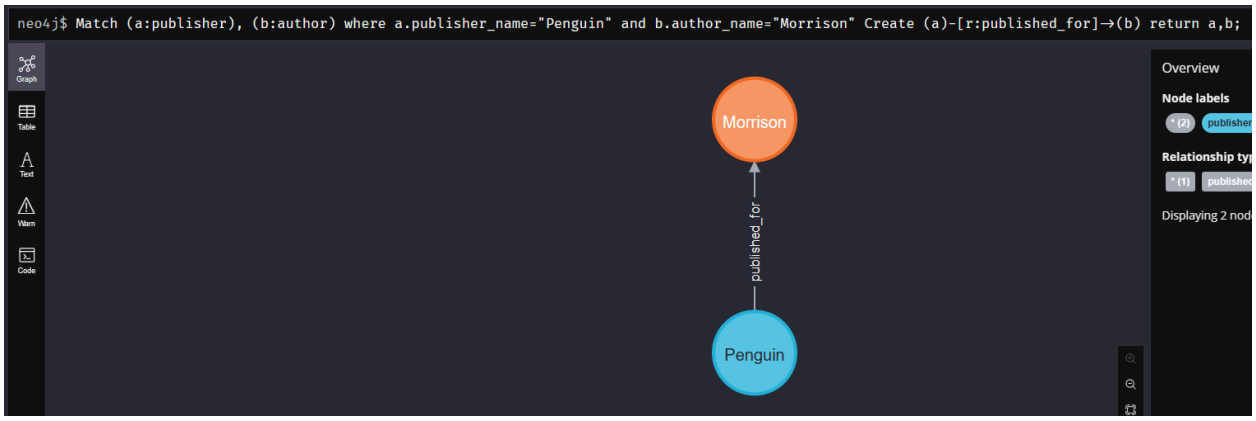

```
neo4j$ Match (a:publisher), (b:author) where a.publisher_name="Vintage" and b.author_name="Camus" Create (a)-[r:published_for]→(b) return a,b;
```




```
neo4j$ Match (a:publisher), (b:author) where a.publisher_name="LB Books" and b.author_name="Salinger" Create (a)-[r:published_for]→(b) return a,b;
```




neo4j$ Match (a:publisher), (b:author) where a.publisher_name="Plume" and b.author_name="Morrison" Create (a)-[r:published_for]→(b) return a,b;
Graph
Table
Text
Warn
Code
Morrison
published_for
Plume
Overview
Node labels
Displaying 2


neo4j$ Match (a:publisher), (b:author) where a.publisher_name="Penguin" and b.author_name="Morrison" Create (a)-[r:published_for]→(b) return a,b;
Graph
Table
Text
Warn
Code
Morrison
published_for
Penguin
Overview
Node labels
Displaying 2

9. Show all the nodes and relationships

```
match(n) return n
```

10. Sort the names in descending order

```
neo4j$ MATCH (publisher)-[:published_for]→(author) RETURN author.author_name, publisher.publisher_name ORDER BY author.author_name DESC
```

Table | Text | Code

	author.author_name	publisher.publisher_name
1	"Salinger"	"LB Books"
2	"Morrison"	"Plume"
3	"Morrison"	"Penguin"
4	"King"	"Scribner"
5	"Heller"	"Scribner"
6	"Camus"	"Vintage"

Started streaming 6 records after 8 ms and completed after 9 ms.

11. Which publisher employs the author morrison

```
neo4j$ MATCH (publisher)-[:published_for]→(author) WHERE author.author_name = "Morrison" RETURN publisher.publisher_name as Publisher
```

Table | Text | Code

	Publisher
1	"Plume"
2	"Penguin"

Started streaming 2 records after 8 ms and completed after 9 ms.