Exercise 5 Neo4J

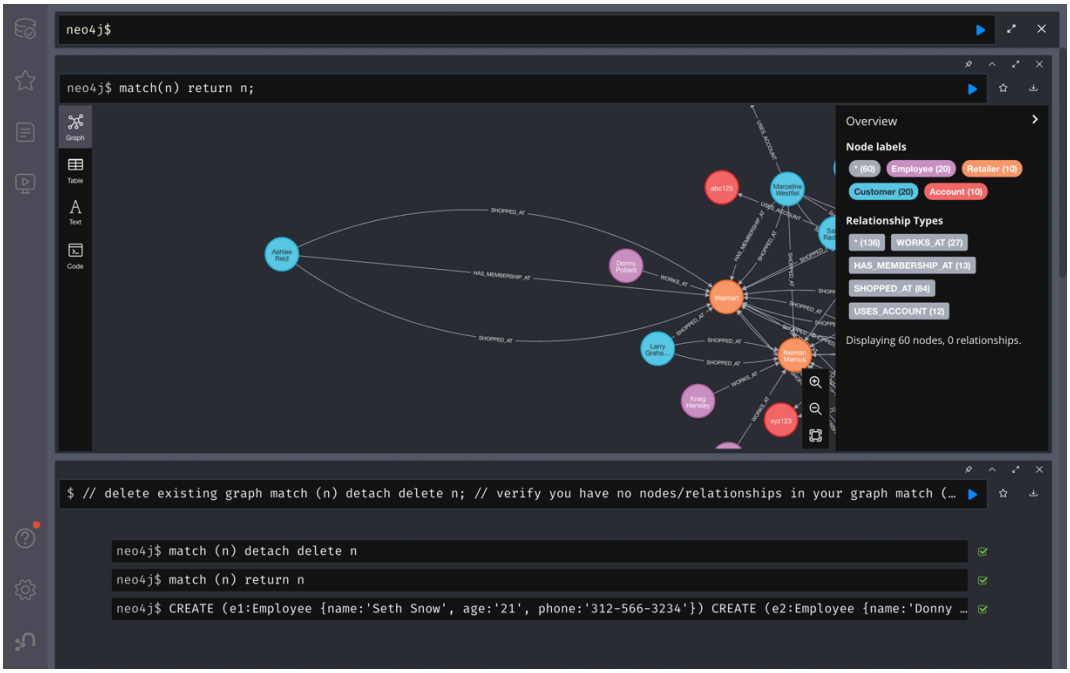
1.

a. You could use any names for your project and the graph database

b. Copy the **ENTIRE** Cypher code in the script and paste it in ne4oj$ prompt and then click the blue play button on the right.

c. (DO NOT copy and paste one line at a time)

d. Run the command below. Find the Customer Ashlee Reid and pull the node to the far left of the screen. Include a screencapture of this view to show you were able to load the database **(6 points)**

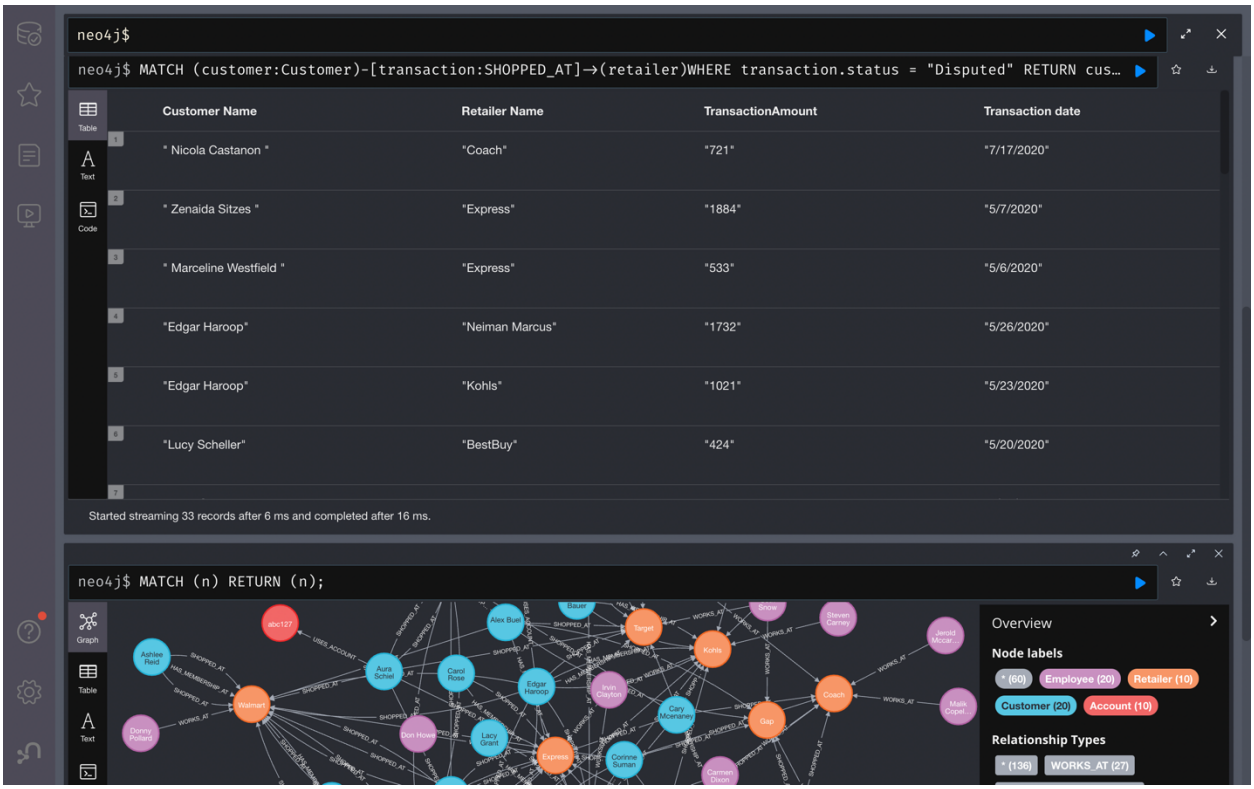


2. **Execute the following Cypher code to get the list of retailers: (1 point)** **MATCH (r:Retailer)RETURN (r);**

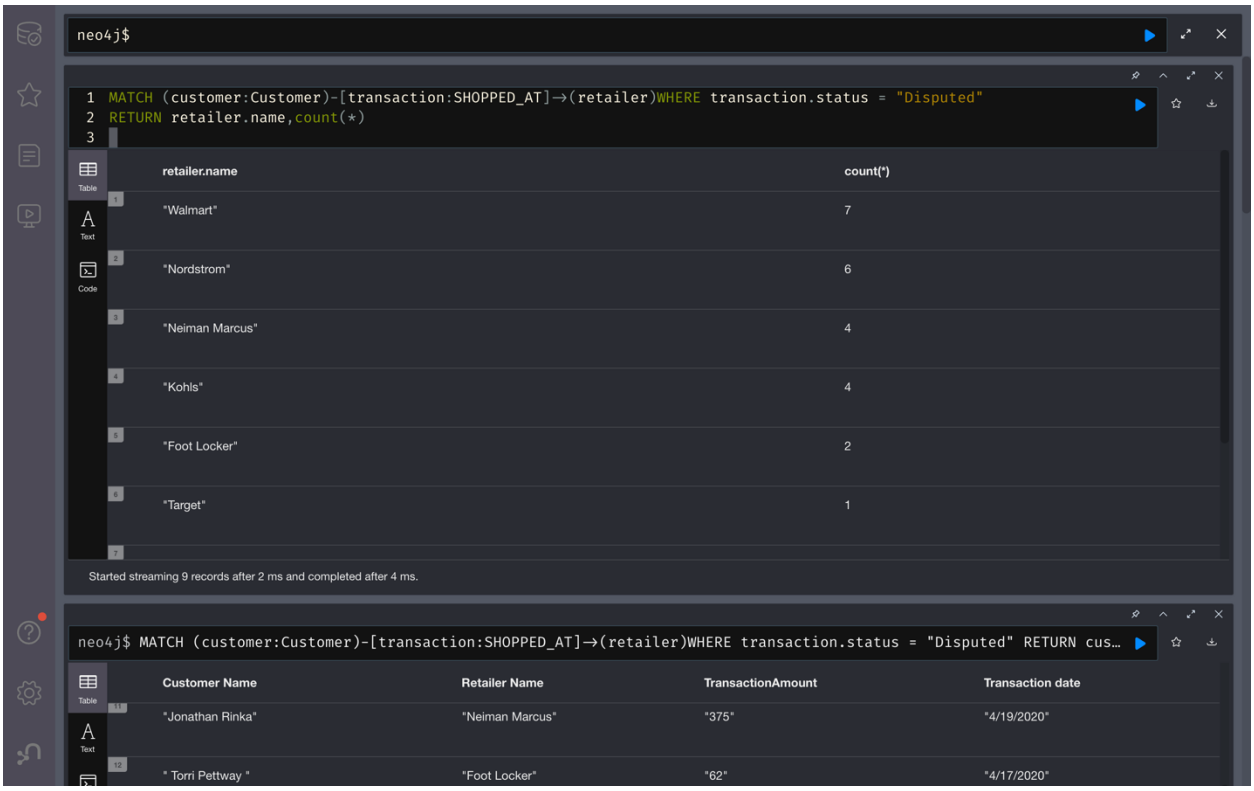
3. **Execute the following Cypher code to the get the list of employees: (1 point)** **MATCH (e:Employee)RETURN (e);**

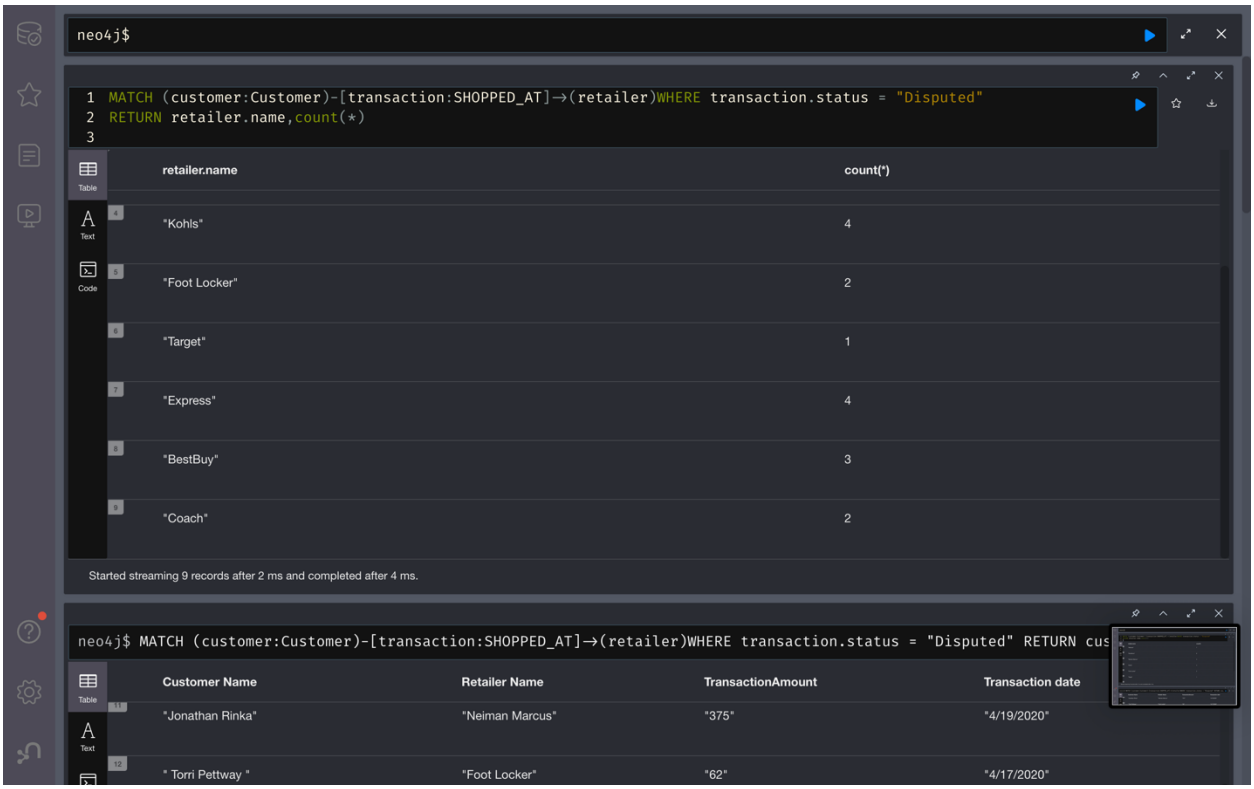
4. **Execute the following Cypher code to the get the list of customers: (1 point)** **MATCH (c:Customer)RETURN (c);**

5. **Execute the following Cypher code to the get the list of all disputed transactions: (1 point)**
MATCH (customer:Customer)-[transaction:SHOPPED_AT]->(retailer)WHERE transaction.status = "Disputed"
RETURN customer.name AS `Customer Name`, retailer.name AS `Retailer Name`, transaction.amount AS `TransactionAmount`, transaction.date AS `Transaction date`ORDER BY `Transaction date` DESC

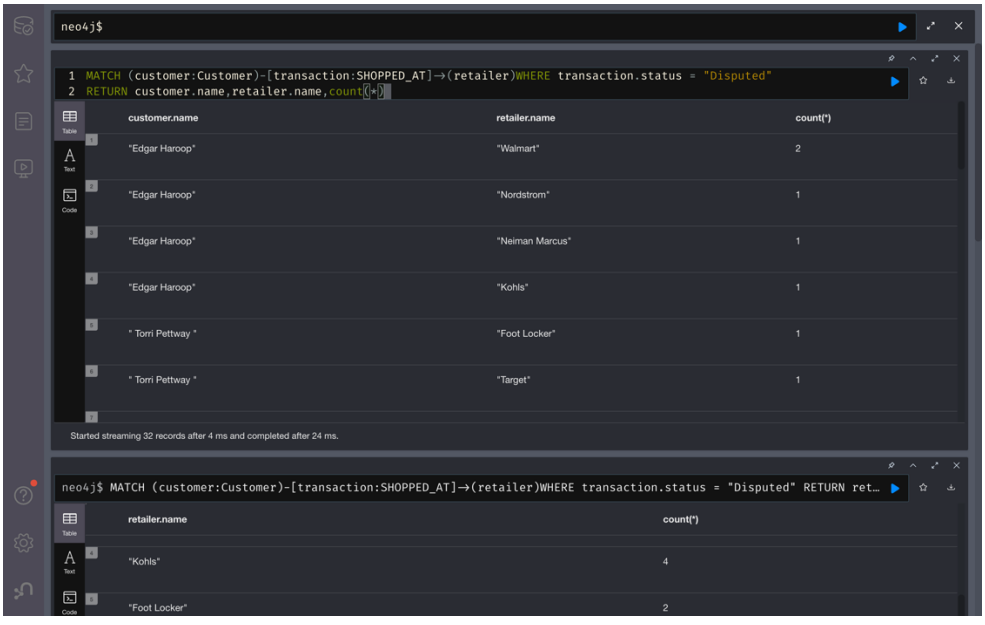

neo4j$
neo4j$ MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed" RETURN cus…
Table
Text
Code
Customer Name
Retailer Name
TransactionAmount
Transaction date
" Nicola Castanon "
"Coach"
"721"
"7/17/2020"
" Zenaida Sitzes "
"Express"
"1884"
"5/7/2020"
" Marceline Westfield "
"Express"
"533"
"5/6/2020"
"Edgar Haroop"
"Neiman Marcus"
"1732"
"5/26/2020"
"Edgar Haroop"
"Kohls"
"1021"
"5/23/2020"
"Lucy Scheller"
"BestBuy"
"424"
"5/20/2020"
Started streaming 33 records after 6 ms and completed after 16 ms.
neo4j$ MATCH (n) RETURN (n);
Graph
Table
Text
Overview
Node labels
* (60)
Employee (20)
Retailer (10)
Customer (20)
Account (10)
Relationship Types
* (136)
WORKS_AT (27)

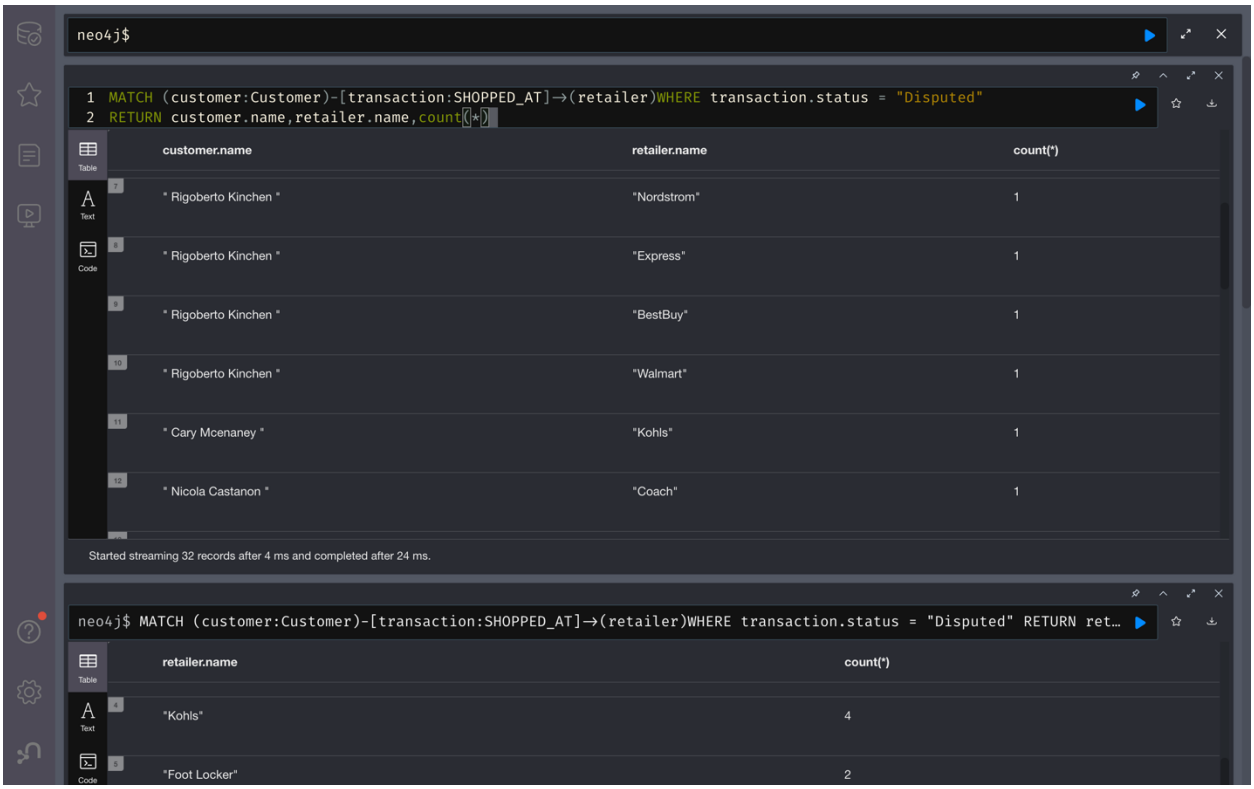
6. **Write the Cypher code to get the number of disputed transactions for every retailer (6 points)**

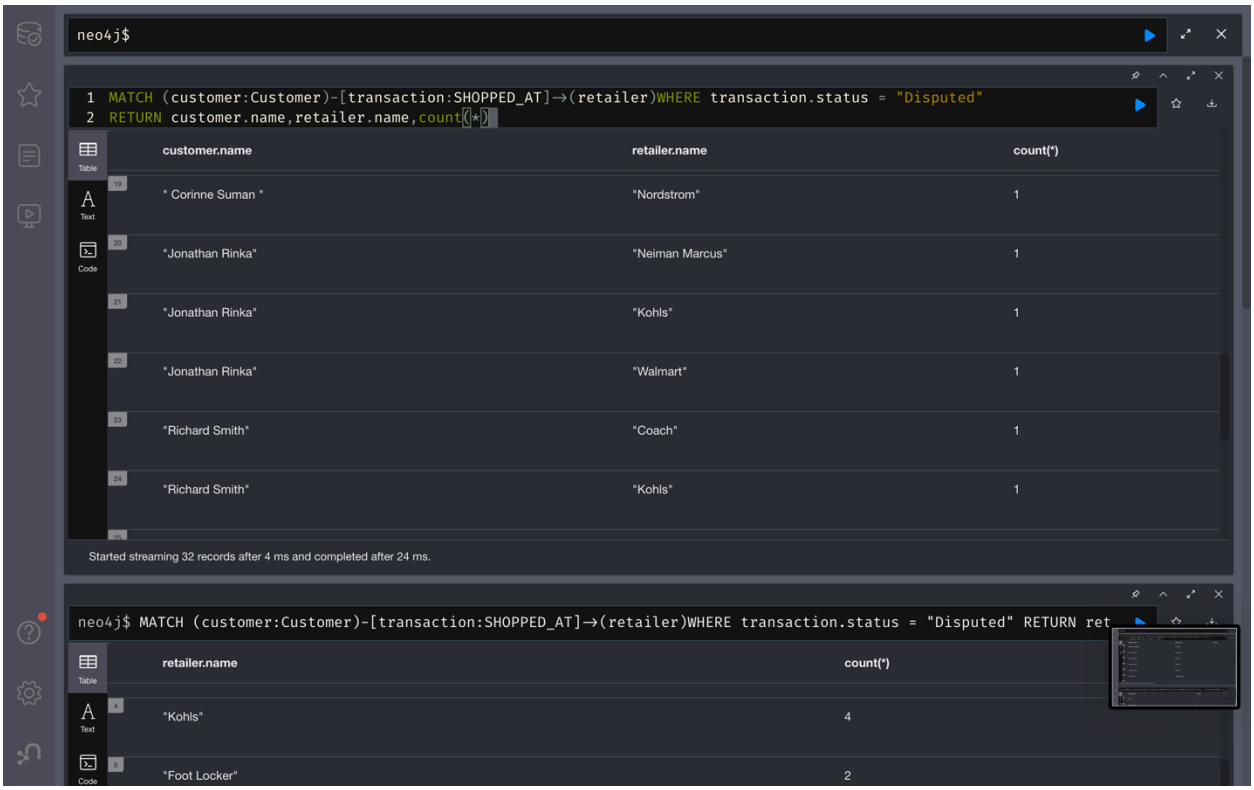


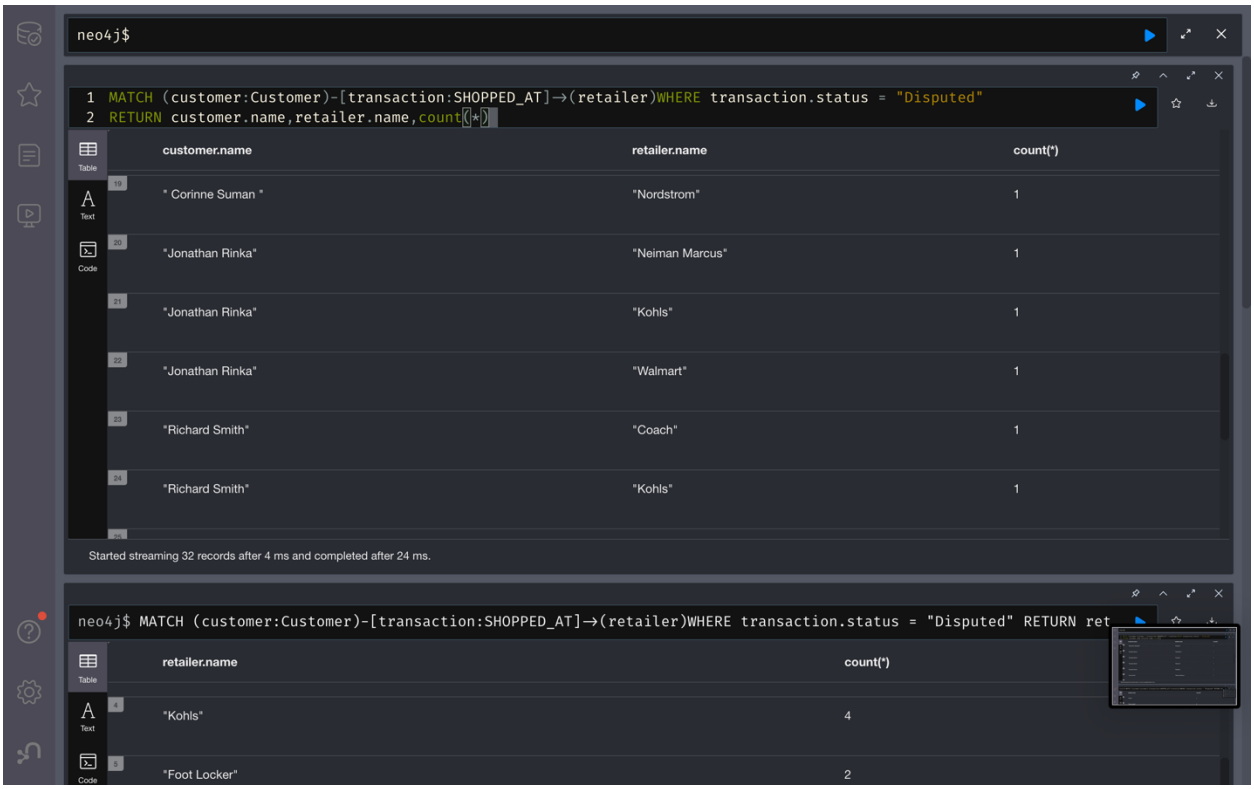


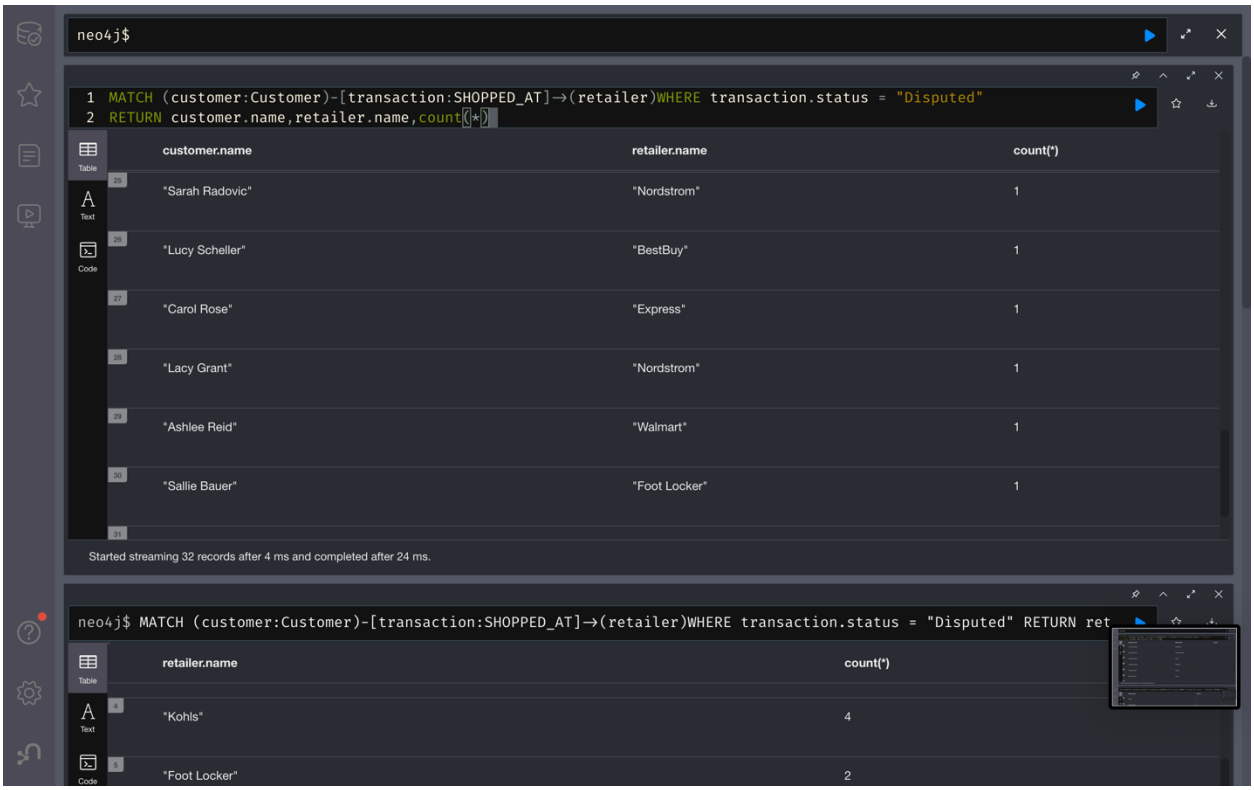
7. **Write the Cypher code to get the number of disputed transactions and the list of customer names for these disputed transactions for every retailer**

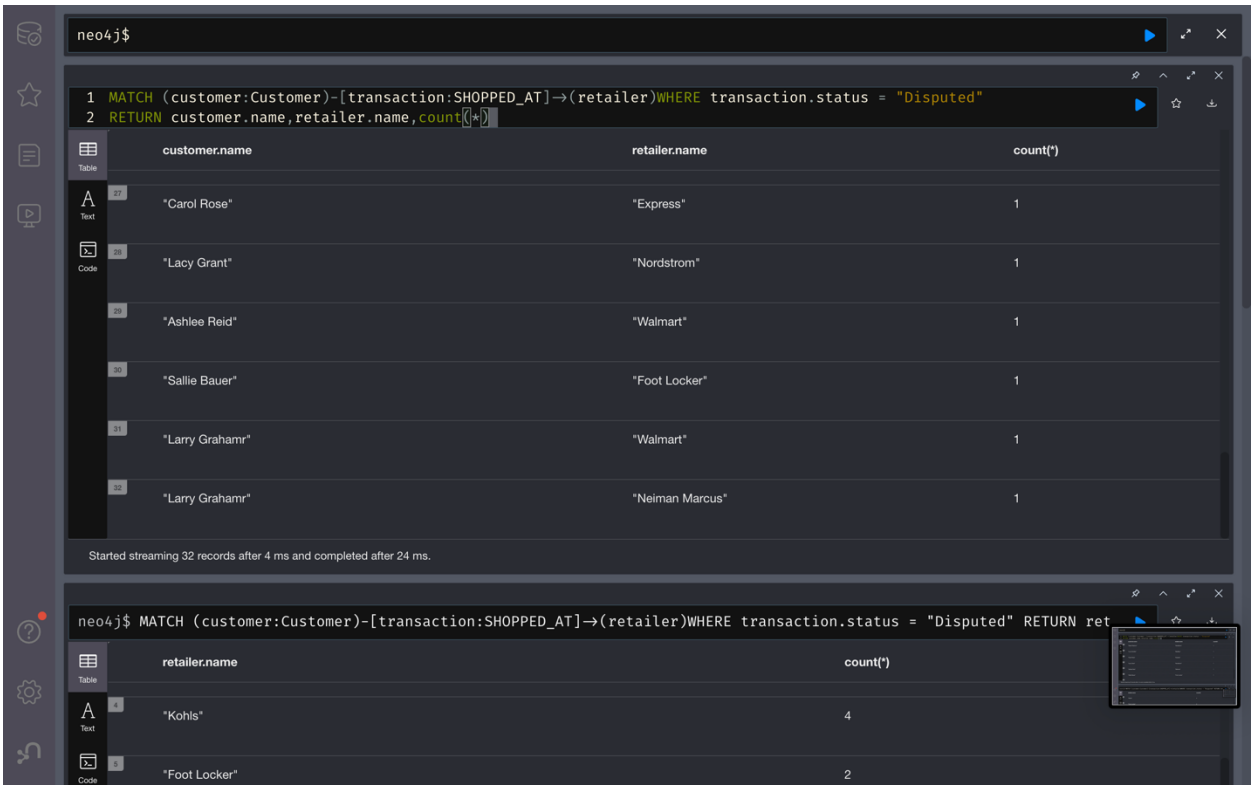



neo4j$
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed"
2 RETURN customer.name,retailer.name,count(*)
Table
Text
Code
customer.name
retailer.name
count(*)
" Rigoberto Kinchen "
"Nordstrom"
1
" Rigoberto Kinchen "
"Express"
1
" Rigoberto Kinchen "
"BestBuy"
1
" Rigoberto Kinchen "
"Walmart"
1
" Cary Mcenaney "
"Kohls"
1
" Nicola Castanon "
"Coach"
1
Started streaming 32 records after 4 ms and completed after 24 ms.
neo4j$ MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed" RETURN ret…
Table
Text
Code
retailer.name
count(*)
"Kohls"
4
"Foot Locker"
2


neo4j$
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed"
2 RETURN customer.name,retailer.name,count(*)
Table
Text
Code
customer.name
retailer.name
count(*)
" Corinne Suman "
"Nordstrom"
1
"Jonathan Rinka"
"Neiman Marcus"
1
"Jonathan Rinka"
"Kohls"
1
"Jonathan Rinka"
"Walmart"
1
"Richard Smith"
"Coach"
1
"Richard Smith"
"Kohls"
1
Started streaming 32 records after 4 ms and completed after 24 ms.
neo4j$ MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed" RETURN ret
Table
Text
Code
retailer.name
count(*)
"Kohls"
4
"Foot Locker"
2

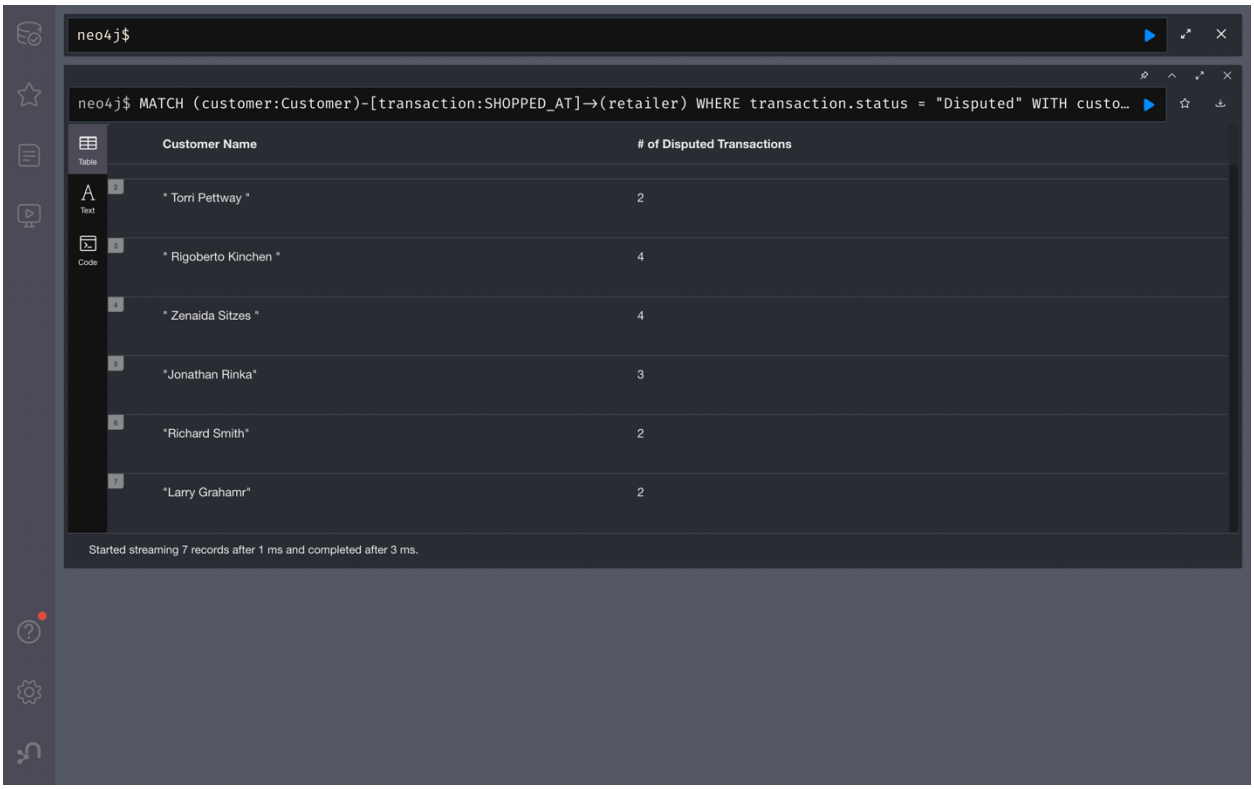

neo4j$
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed"
2 RETURN customer.name,retailer.name,count(*)
Table
Text
Code
customer.name
retailer.name
count(*)
" Corinne Suman "
"Nordstrom"
1
"Jonathan Rinka"
"Neiman Marcus"
1
"Jonathan Rinka"
"Kohls"
1
"Jonathan Rinka"
"Walmart"
1
"Richard Smith"
"Coach"
1
"Richard Smith"
"Kohls"
1
Started streaming 32 records after 4 ms and completed after 24 ms.
neo4j$ MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed" RETURN ret
retailer.name
count(*)
"Kohls"
4
"Foot Locker"
2


neo4j$
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed"
2 RETURN customer.name,retailer.name,count(*)
Table
Text
Code
customer.name
retailer.name
count(*)
"Sarah Radovic"
"Nordstrom"
1
"Lucy Scheller"
"BestBuy"
1
"Carol Rose"
"Express"
1
"Lacy Grant"
"Nordstrom"
1
"Ashlee Reid"
"Walmart"
1
"Sallie Bauer"
"Foot Locker"
1
Started streaming 32 records after 4 ms and completed after 24 ms.
neo4j$ MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)WHERE transaction.status = "Disputed" RETURN ret
retailer.name
count(*)
"Kohls"
4
"Foot Locker"
2



8. **Write the Cypher code to get the number of disputed transactions for every customer that has more than one disputed transaction (6 points)**

```
MATCH (customer:Customer)-[transaction:SHOPPED_AT]->(retailer)
WHERE transaction.status = "Disputed"
WITH customer.name AS `Customer Name`, COUNT (*) AS `Number of Disputed Transactions`
WHERE `Number of Disputed Transactions`>1
RETURN `Customer Name`, `Number of Disputed Transactions`
```



9. **Write the Cypher code to get the list of stores on La Salle Street that have disputed transactions and the number of disputed transactions for every store; the store list must be sorted by store name in ascending order.**