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Exercise 5 Questions:

1. Use the provided Cypher script to create the graph database
 - a. You could use any names for your project and the graph database. -done
 - 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. -done
 - c. (DO NOT copy and paste one line at a time) - done
 - d. Run the command below. Find the Customer Ashlee Reid and pull the node to the far left of the screen. Include a screen capture of this view to show you were able to load the database (6 points)

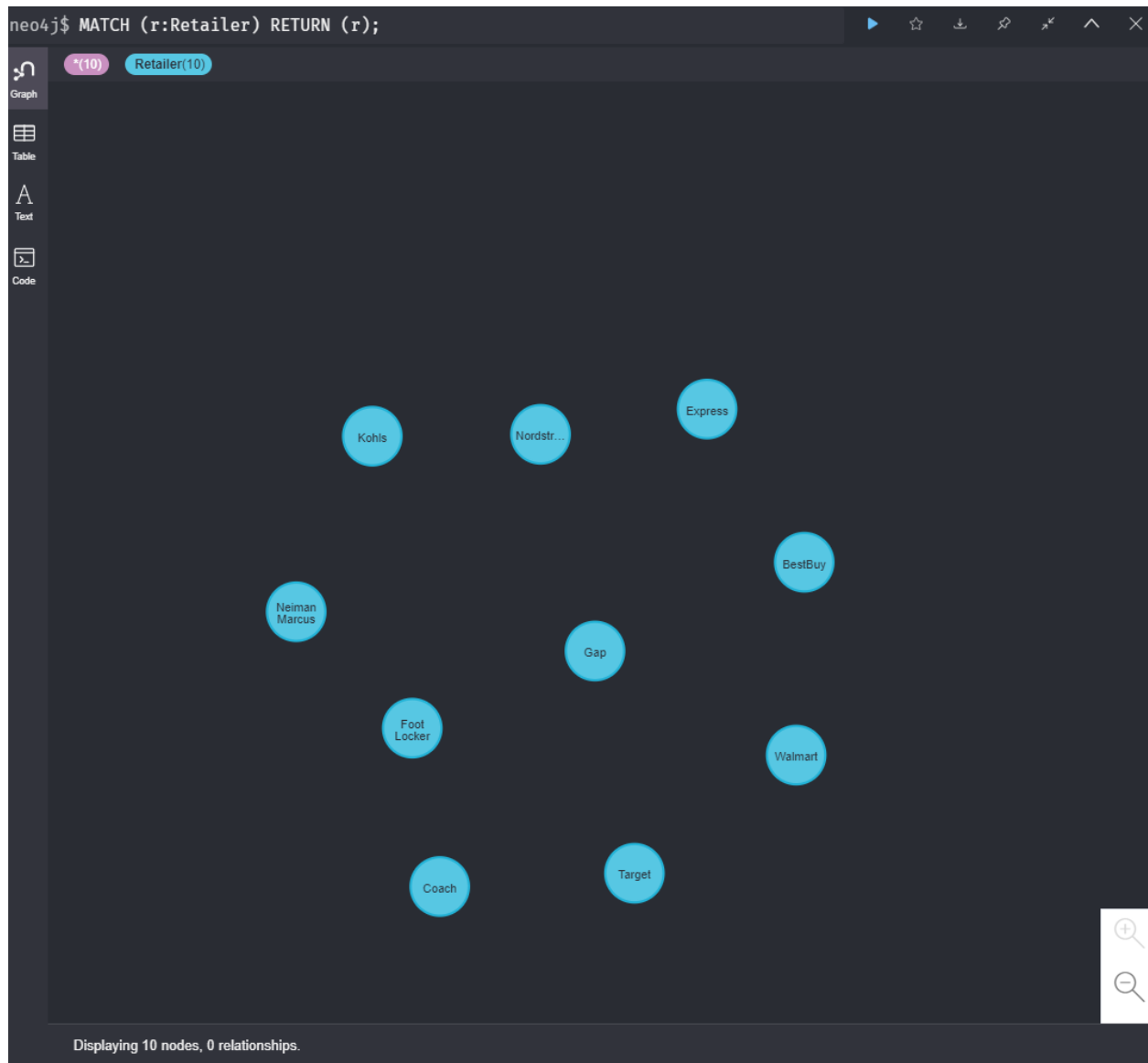
`MATCH (n) RETURN (n);`



2. Execute the following Cypher code to get the list of retailers: (1 point)

```
MATCH (r:Retailer)
```

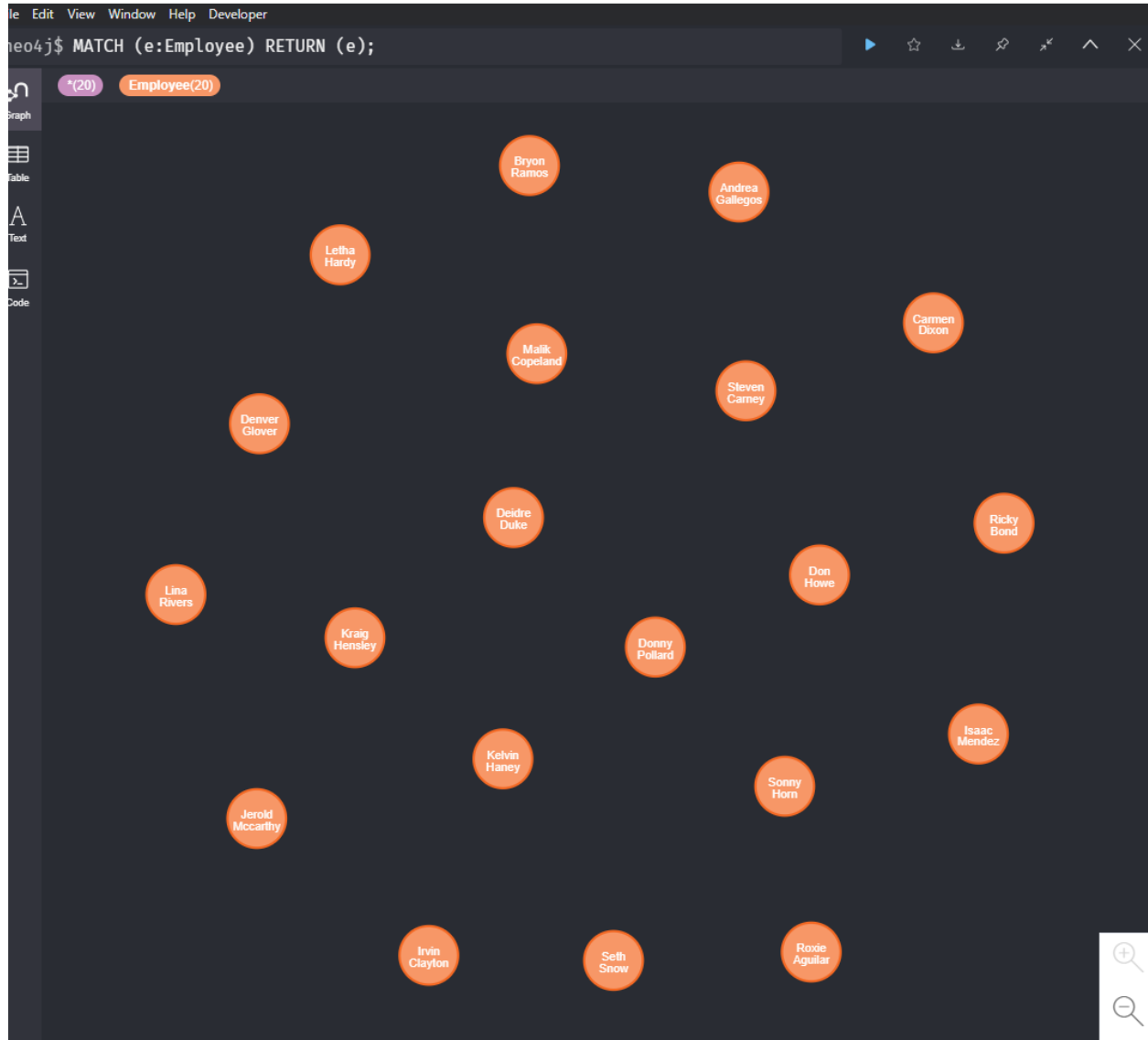
```
RETURN (r);
```



3. Execute the following Cypher code to get the list of employees: (1 point)

```
MATCH (e:Employee)
```

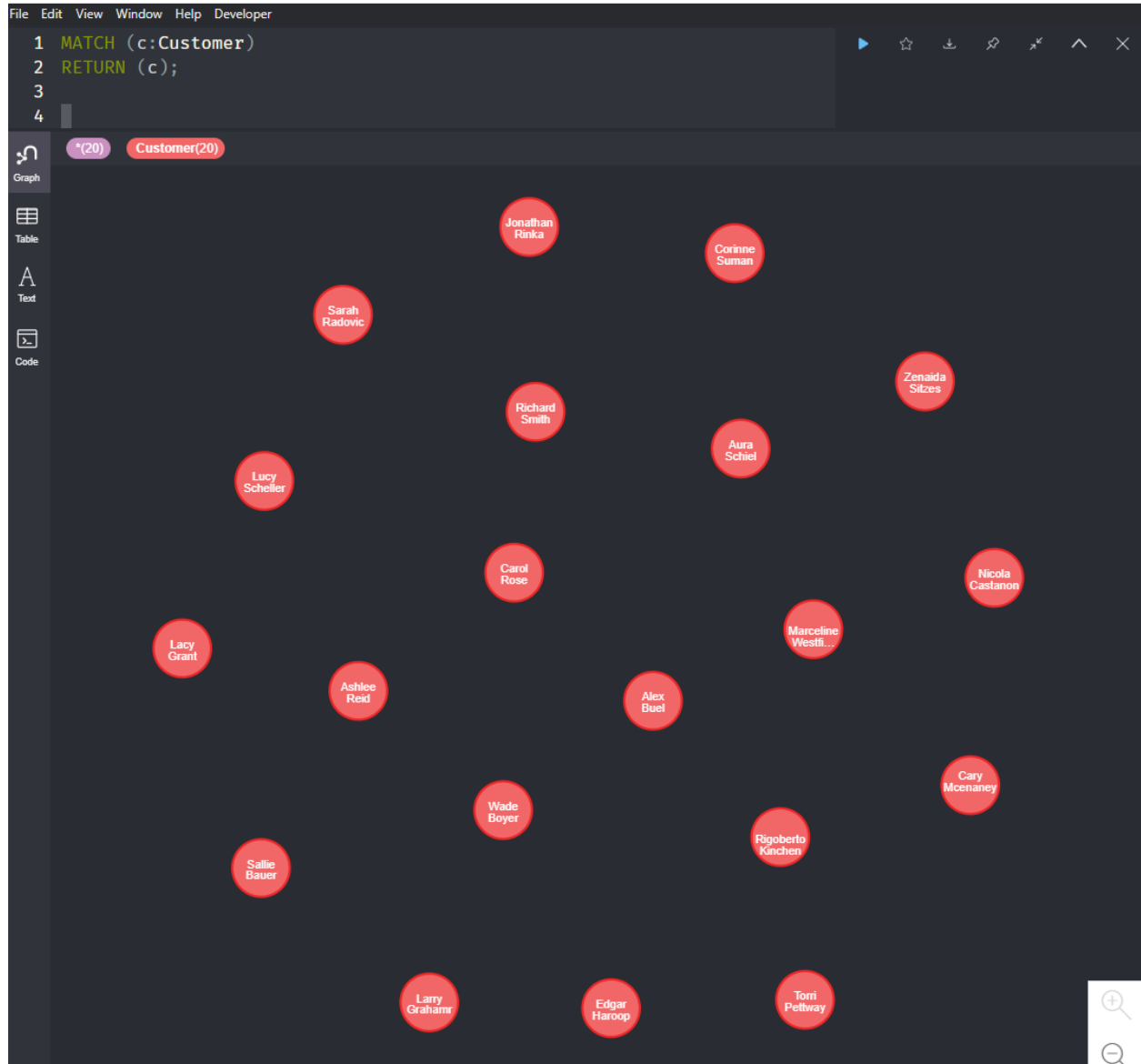
```
RETURN (e);
```



4. Execute the following Cypher code to get the list of customers: (1 point)

```
MATCH (c:Customer)
```

```
RETURN (c);
```



5. Execute the following Cypher code to 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  
`Transaction
```

```
Amount`, transaction.date AS `Transaction date`
```

```
ORDER BY `Transaction date` DESC
```

neo4j@bolt://localhost:7687/neo4j - Neo4j Browser

```

1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]-(retailer)
2 WHERE transaction.status = "Disputed"
3 RETURN customer.name AS `Customer Name`, retailer.name AS `Retailer
  Name`, transaction.amount AS `Transaction
  Amount`, transaction.date AS `Transaction date`
4 ORDER BY `Transaction date` DESC;
5
6

```

	Customer Name	Retailer Name	Transaction Amount	Transaction date
1	"Nicola Castanon "	"Coach"	"721"	"7/17/2020"
2	"Zenaida Sitzes "	"Express"	"1884"	"5/7/2020"
3	"Marceline Westfield "	"Express"	"533"	"5/6/2020"
4	"Edgar Haroop"	"Neiman Marcus"	"1732"	"5/26/2020"
5	"Edgar Haroop"	"Kohls"	"1021"	"5/23/2020"
6	"Lucy Scheller"	"BestBuy"	"424"	"5/20/2020"
7	"Larry Grahamr"	"Neiman Marcus"	"475"	"5/19/2020"
8	"Larry Grahamr"	"Walmart"	"425"	"5/19/2020"
9	"Richard Smith"	"Kohls"	"875"	"5/13/2020"
10	"Rigoberto Kinchen "	"BestBuy"	"424"	"5/10/2020"
11	"Jonathan Rinka"	"Neiman Marcus"	"375"	"4/19/2020"
12	"Terri Dettwyer "	"Foot Locker"	"62"	"4/17/2020"

6. Write the Cypher code to get the number of disputed transactions for every retailer (4 points)

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```

1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]-(retailer)
2 WHERE transaction.status = 'Disputed'
3 WITH retailer.name AS RetailerName, customer.name AS CustomerName,
  COUNT(transaction) as DisputedTrans
4 RETURN RetailerName, count(DisputedTrans) as Total_Disputed_Trans,
  collect(CustomerName) as Customer_List
5 Order By Total_Disputed_Trans DESC;

```

Table

Text

Code

	RetailerName	Total_Disputed_Trans	Customer_List
1	"Nordstrom"	6	["Edgar Haroop", " Rigoberto Kinchen ", " Zenaida Sitzes ", " Corinne Suman ", "Sarah Radovic", "Lacy Grant"]
2	"Walmart"	6	["Edgar Haroop", " Rigoberto Kinchen ", " Zenaida Sitzes ", "Jonathan Rinka", "Ashlee Reid", "Larry Grahamr"]
3	"Neiman Marcus"	4	["Edgar Haroop", " Aura Schiel ", "Jonathan Rinka", "Larry Grahamr"]
4	"Kohls"	4	["Edgar Haroop", " Cary Mcenaney ", "Jonathan Rinka", "Richard Smith"]
5	"Express"	4	[" Rigoberto Kinchen ", " Marceline Westfield ", " Zenaida Sitzes ", "Carol Rose"]
6	"BestBuy"	3	[" Rigoberto Kinchen ", " Zenaida Sitzes ", "Lucy Scheller"]
7	"Foot Locker"	2	[" Torri Pettway ", "Sallie Bauer"]
8	"Coach"	2	[" Nicola Castanon ", "Richard Smith"]
9	"Target"	1	[" Torri Pettway "]

8. Write the Cypher code to get the number of disputed transactions for every customer that has more than one disputed transaction (4 points)

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```
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→(retailer)
2 WHERE transaction.status = 'Disputed'
3 WITH customer.name AS CustomerName, COUNT(transaction) as
  DisputedTrans
4 Where DisputedTrans>1
5 RETURN CustomerName, DisputedTrans
6 Order By DisputedTrans DESC;
```

Table

Text

Code

	CustomerName	Disputed Trans
1	"Edgar Haroop"	5
2	" Rigoberto Kinchen "	4
3	" Zenaida Sitzes "	4
4	"Jonathan Rinka"	3
5	" Torri Pettway "	2
6	"Richard Smith"	2
7	"Larry Grahamr"	2

9. Write the Cypher code to get the list of stores on LaSalle 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. (4 points)

neo4j\$

```
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→
  (retailer)
2 WHERE transaction.status = 'Disputed'
3 And retailer.street CONTAINS 'LaSalle'
4 WITH retailer.name AS RetailerName, COUNT(transaction) as
  DisputedTrans
5 RETURN RetailerName, DisputedTrans
6 Order By RetailerName ASC;
```

	RetailerName	DisputedTrans
1	"Neiman Marcus"	4
2	"Nordstrom"	6

Started streaming 2 records after 12 ms and completed after 14 ms.

10. Write the Cypher code to get the list of Employees who work in at least 2 stores where disputed transactions were reported in these retailers (4 points)

neo4j\$

```
1 MATCH (customer:Customer)-[transaction:SHOPPED_AT]→
  (retailer)
2 Match (employee:Employee)-[worked:WORKS_AT]→(retailer)
3 WITH employee.name AS EmployeeName, COUNT(Distinct
  retailer.name) as num_stores, transaction.status As Status
4 Where num_stores ≥ 2
5 With COUNT(Status = 'Disputed') as disp_tran, num_stores as
  num_stores, EmployeeName as EmployeeName
6 Where disp_tran > 0
7 Return collect(EmployeeName);
```

	collect(EmployeeName)
1	["Seth Snow", "Roxie Aguilar", "Ricky Bond", "Carmen Dixon", "Bryon Ramos", "Irvin Clayton"]

Started streaming 1 records after 12 ms and completed after 18 ms.