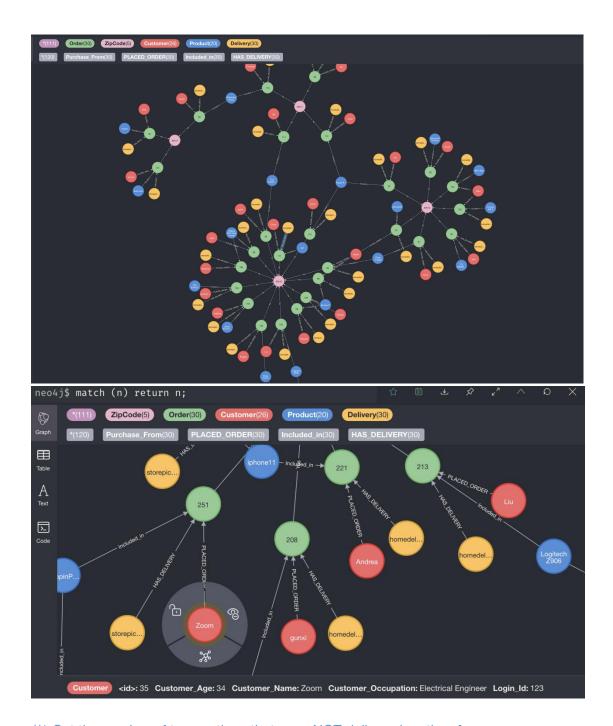


loginId	Customer_Name	Customer_Age	Customer_Occupati	Credit_Card_Number	Order_ID	Order_Date	Expected_Delivery_Date	Actual_Delivery_Date	Product_ID	Product_Name	Categ
tim	Krean	22	accountant	2345-232-8765-3012	28	11/03/2020	11/12/2020	11/08/2020	Class Crystal	Class Crystal	tvs
tim	Len	18	student	8762-132-8372-9372	29	11/06/2020	11/17/2020	11/04/2020	iphoneXR	iphoneXR	phone
tim	Jiaxin	17	student	2234-287-3233-8732	31	11/02/2020	11/16/2020	11/06/2020	Samsung Bixby	Samsung Bixby	phone
qq	jimmy	22	Teacher	8763-123-3212-3213	32	11/03/2020	11/16/2020	11/04/2020	iphone11	iphone11	phone
qq	Jun	18	Teacher	876-382-2321-2322	33	11/01/2020	11/17/2020	11/06/2020	Logitech Z906	Logitech Z906	sound
qq	момо	21	software engineer	8762-382-3132-3321	34	11/03/2020	11/17/2020	11/04/2020	Bose Home	Bose Home	voice :
1	Bob	23	student	8762-123-3321-1323	35	11/03/2020	11/10/2020	11/06/2020	ihome	ihome	voice :
1	Jack	20	Electrical Engineer	2342-321-3321-9831	36	10/31/2020	11/17/2020	11/08/2020	TCL 49NANO85UNA	TCL 49NANO85UNA	tvs
1	Xin	54	Singer	3223-331-9832-1321	37	10/31/2020	11/11/2020	11/08/2020	PoppinPod Kolo	PoppinPod Kolo	sound
Tom	gunxi	43	Electrical Engineer	1762-123-3321-1323	38	10/31/2020	11/17/2020	11/02/2020	TLG 55UN7300PUF	TLG 55UN7300PUF	laptop
Tom	Jean	18	student	2341-873-8162-1922	39	10/30/2020	11/12/2020	11/06/2020	FitBark GPS Dog T	FitBark GPS Dog T	weara
Tom	Anna	22	accountant	8763-234-4212-3142	40	11/03/2020	11/17/2020	11/02/2020	Class Crystal	Class Crystal	tvs
jm123	siri	43	Doctor	2345-323-1873-1773	41	10/30/2020	11/14/2020	11/01/2020	Sony X750H	Sony X750H	tvs
jm123	Edward	22	Teacher	1231-231-3321-1843	42	11/04/2020	11/12/2020	11/05/2020	iphone11	iphone11	phone
jm123	Liu	18	Teacher	2345-843-1973-1355	43	10/30/2020	11/17/2020	11/05/2020	Logitech Z906	Logitech Z906	Logite
kk	Jinyun	27	nurse	1233-123-8732-1934	44	11/03/2020	11/17/2020	11/04/2020	Echo Dot	Echo Dot	voice :
kk	Kiko	35	salesperson	8276-432-8721-3321	45	11/03/2020	11/17/2020	11/04/2020	Oculus Rift S	Oculus Rift S	weara
kk	Adelina	22	software engineer	8991-982-8831-1236	46	11/04/2020	11/10/2020	11/07/2020	Sony KDL32W600D	Sony KDL32W600D	tvs
kk	Adriana	20	Designer	1231-321-1743-3213	47	11/04/2020	11/13/2020	11/05/2020	BFS-99X	BFS-99X	sound
tx45	Angela	21	software engineer	1233-232-8763-1343	48	11/03/2020	11/17/2020	11/04/2020	Bose Home	Bose Home	voice :
tx45	Browne	18	student	2232-124-3213-5733	49	11/03/2020	11/14/2020	11/07/2020	FitBark GPS Dog T	FitBark GPS Dog T	weara
tx45	Bryan	24	student	2341-342-5674-3257	50	11/03/2020	11/17/2020	11/03/2020	Microsoft Surface	Microsoft Surface	laptop



//1.Get the number of transactions that were NOT delivered on time for every Delivery Zip Code

MATCH (order:Order)-[delivery:Purchase\_From]->(ZipCode)
WHERE delivery.Order\_Delivered\_on\_Time = "No"
WITH order, ZipCode, delivery
RETURN DISTINCT ZipCode.name AS `ZipCode`, count(DISTINCT delivery )
AS Count

#### **ORDER BY Count DESC**



## //2. Get the number of disputed transactions and the list of customer names for these disputed transactions for Delivery Zip Code

MATCH (customer:Customer)-[transaction:PLACED\_ORDER]->(Order)

WHERE transaction.Transaction\_Status = "Disputed"

MATCH (order1:Order)-[delivery:Purchase\_From]->(ZipCode)

WHERE Order.Order\_ID = order1.Order\_ID

WITH customer, Order, transaction, ZipCode

RETURN DISTINCT ZipCode.name AS ZipCode,count(DISTINCT transaction) AS Count, collect(DISTINCT customer.Customer\_Name) AS Customers



# //3. Get the number of disputed transactions for EVERY CUSTOMER that has more than one disputed transaction

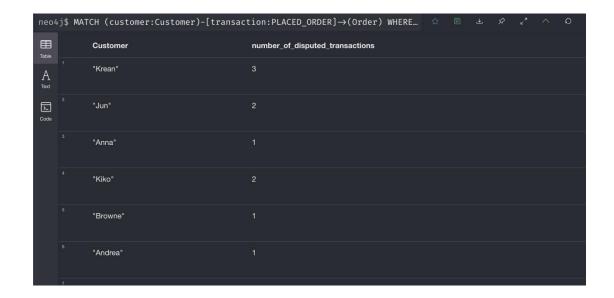
MATCH (customer:Customer)-[transaction:PLACED\_ORDER]->(Order)

WHERE transaction.Transaction\_Status = "Disputed"

WITH customer, count(\*) AS number\_of\_disputed\_transactions

WHERE number of disputed transactions > 0

RETURN DISTINCT customer.Customer\_Name AS Customer, number\_of\_disputed\_transactions



### //4. Get the top 3 customers that reported the maximum number of returned orders

MATCH (customer:Customer)-[transaction:PLACED\_ORDER]->(Order)

WHERE Order\_Order\_Returned = "Yes"

WITH customer, count(\*) AS number\_of\_order\_returned

WHERE number\_of\_order\_returned > 0

WITH customer, number\_of\_order\_returned

ORDER BY number\_of\_order\_returned DESC LIMIT 3

RETURN customer. Customer Name AS Customer, number of order returned



# //5.Get the number of returned orders and got review rating 1 for every product category in every Delivery Zip Code

MATCH (customer:Customer)-[transaction1:PLACED\_ORDER]->(Order)

WHERE Order\_Order\_Returned = "Yes"

MATCH (product:Product)-[transaction2:Included\_in]->(order1:Order)

WHERE transaction2.Review\_Rating = "1" AND Order.Order\_ID = order1.Order\_ID

MATCH (order2:Order)-[delivery:Purchase\_From]->(ZipCode)

WHERE Order\_ID = order2.Order\_ID
WITH product,transaction2,ZipCode
RETURN DISTINCT ZipCode.name AS ZipCode,count(DISTINCT transaction2) AS Count,
product.Category AS Category

