

ADT WEEK 10 CODING PRACTICE

PART 1


graph\$ SHOW INDEXES

	id	name	state	populationPercent	type	entityType	labels
1	1	"index_343aff4e"	"ONLINE"	100.0	"LOOKUP"	"NODE"	null
2	2	"index_f7700477"	"ONLINE"	100.0	"LOOKUP"	"RELATIONSHIP"	null
3	3	"index_name"	"ONLINE"	100.0	"RANGE"	"NODE"	["Cou
4	4	"index_name1"	"ONLINE"	100.0	"RANGE"	"NODE"	["City'
5	5	"index_name2"	"ONLINE"	100.0	"RANGE"	"NODE"	["ZipC
6	6	"index_name3"	"ONLINE"	100.0	"RANGE"	"NODE"	["Add

Started streaming 6 records after 42 ms and completed after 53 ms.

graph\$ SHOW CONSTRAINTS

	id	name	type	entityType	labelsOrTypes	properties	owne
1	10	"constraint_12c31809"	"UNIQUENESS"	"NODE"	["State"]	["name"]	"cons
2	8	"constraint_c6cdc336"	"UNIQUENESS"	"NODE"	["Hospital"]	["id"]	"cons

graph\$:auto LOAD CSV WITH HEADERS FROM 'file:///Users/megha...'   




Table

Added 17 labels, created 17 nodes, set 1393 properties, created 516 relationships, completed after 302 ms.

Warn

Code

Added 17 labels, created 17 nodes, set 1393 properties, created 516 relationships, completed after 302 ms.

graph\$:auto LOAD CSV WITH HEADERS FROM 'file:///Users/megha...'   

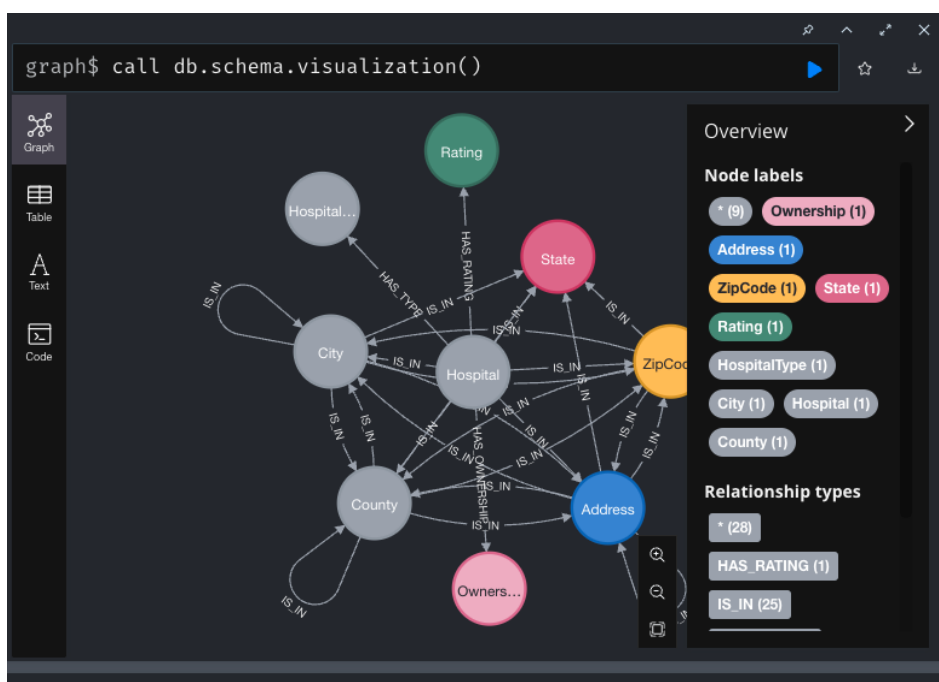
Table

Added 675 labels, created 675 nodes, set 675 properties, created 674 relationships, completed after 518 ms.

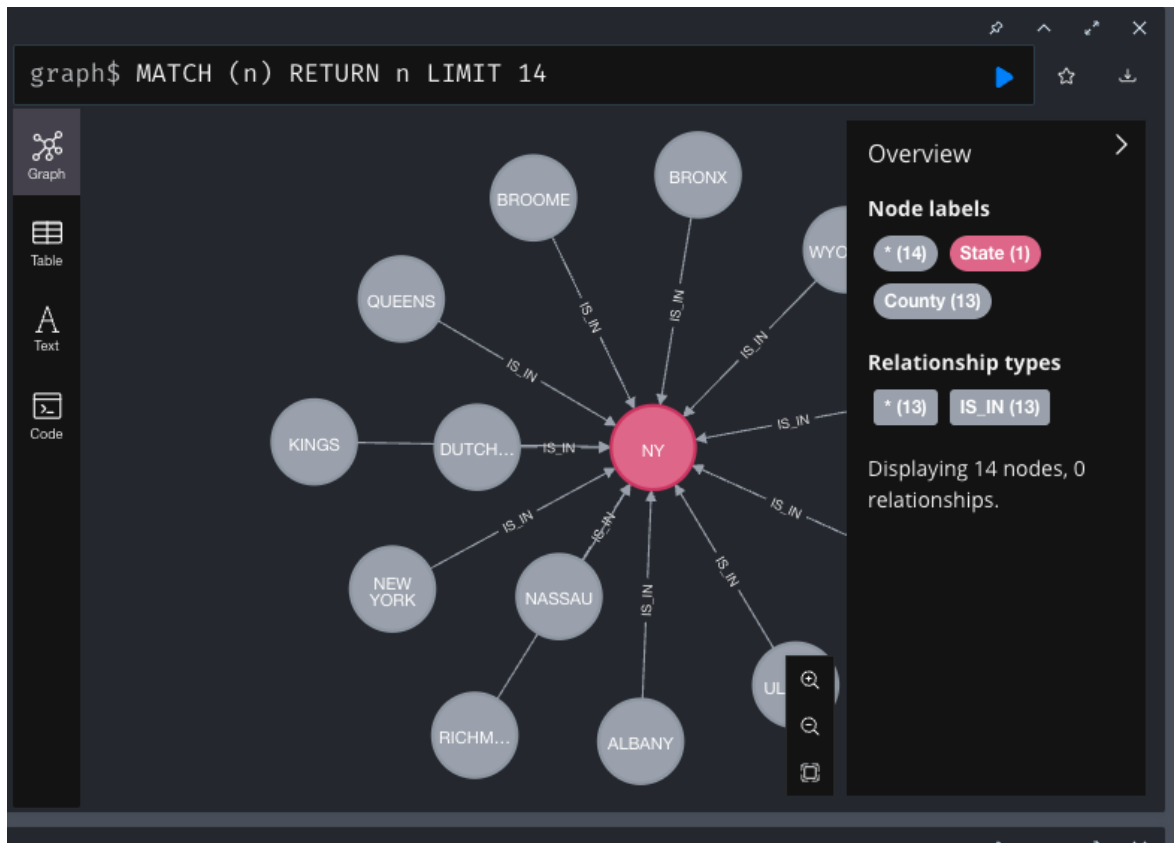
Warn

Code

Added 675 labels, created 675 nodes, set 675 properties, created 674 relationships, completed after 518 ms.



// Query 1 number of hospitals per city



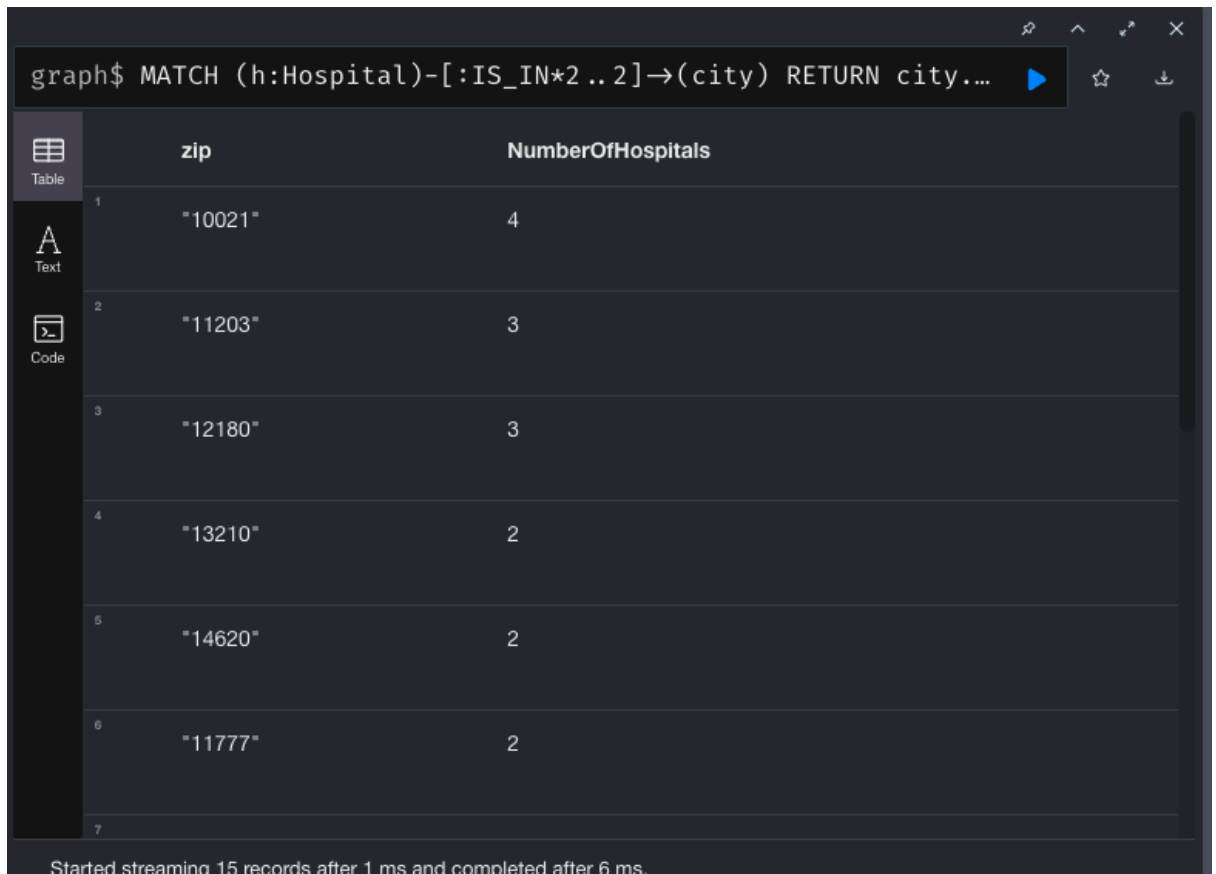
// Query 2 number of hospitals per zip

The image shows the Cypher Studio interface with a table view. The query editor at the top contains the query: `graph$ MATCH (h:Hospital)-[:IS_IN*3..3]→(city) RETURN city...`. The table view displays the following data:

	city	NumberOfHospitals
1	"NEW YORK"	12
2	"BROOKLYN"	12
3	"BRONX"	6
4	"ROCHESTER"	5
5	"BUFFALO"	4
6	"ALBANY"	3
7		

At the bottom of the interface, a status message reads: "Started streaming 15 records in less than 1 ms and completed after 16 ms."

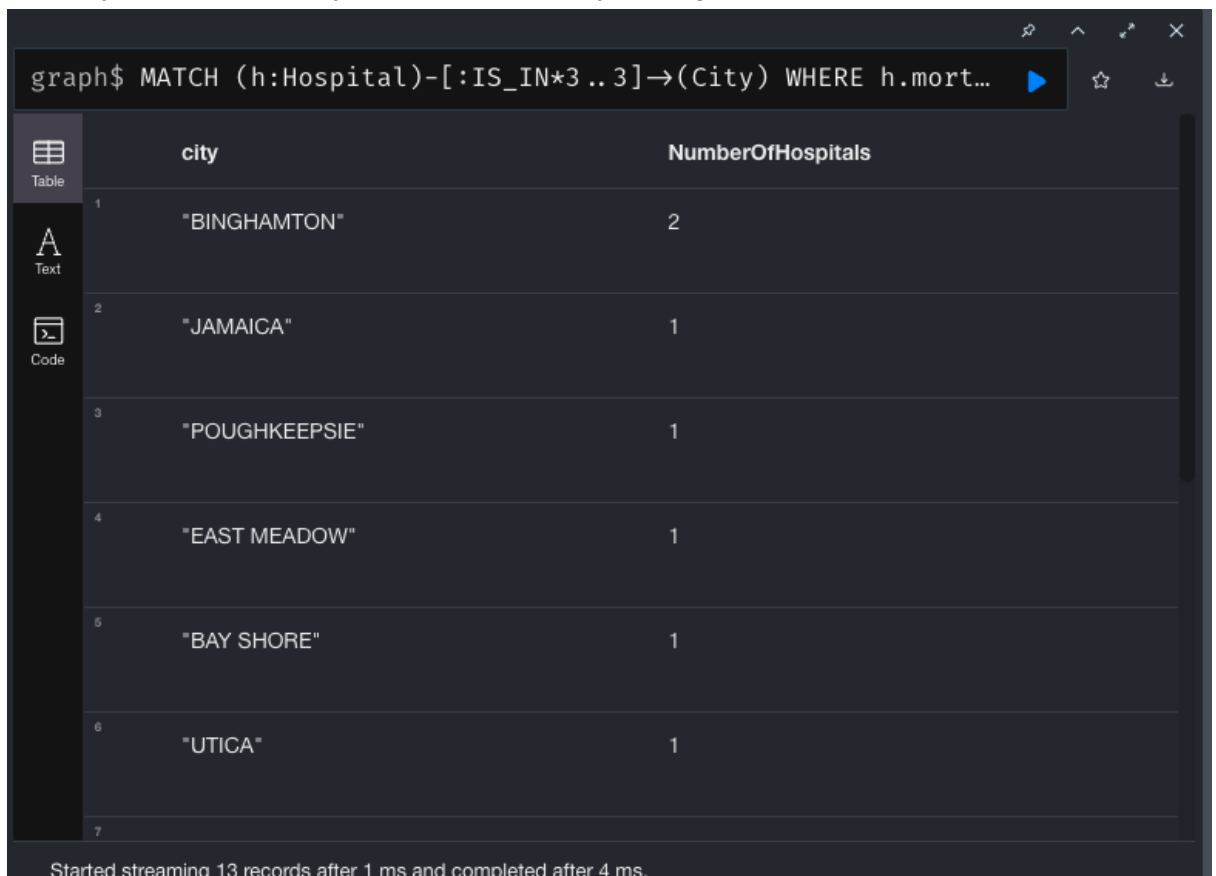
// Query 3 number of hospitals per street



The screenshot shows a Neo4j query interface. At the top, a query bar contains the Cypher query: `graph$ MATCH (h:Hospital)-[:IS_IN*2..2]→(city) RETURN city...`. Below the query bar, there are three view options: Table, Text, and Code. The Table view is selected, displaying a table with two columns: **zip** and **NumberOfHospitals**. The table contains six rows of data, numbered 1 through 6. At the bottom of the interface, a status bar indicates: "Started streaming 15 records after 1 ms and completed after 6 ms".

	zip	NumberOfHospitals
1	"10021"	4
2	"11203"	3
3	"12180"	3
4	"13210"	2
5	"14620"	2
6	"11777"	2

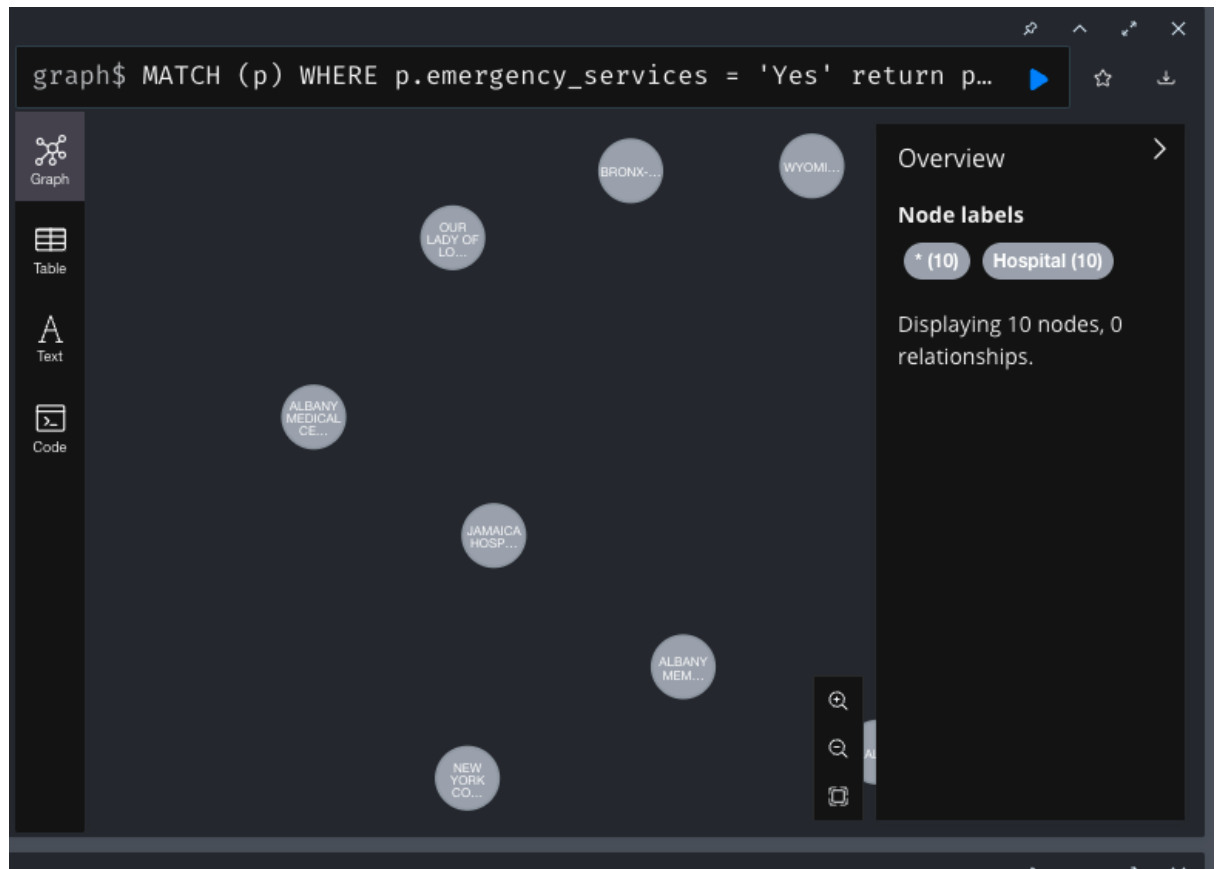
// Query 4 hospitals in city with below mortality average



The screenshot shows a Neo4j query interface. At the top, a query bar contains the Cypher query: `graph$ MATCH (h:Hospital)-[:IS_IN*3..3]→(City) WHERE h.mort...`. Below the query bar, there are three view options: Table, Text, and Code. The Table view is selected, displaying a table with two columns: **city** and **NumberOfHospitals**. The table contains six rows of data, numbered 1 through 6. At the bottom of the interface, a status bar indicates: "Started streaming 13 records after 1 ms and completed after 4 ms".

	city	NumberOfHospitals
1	"BINGHAMTON"	2
2	"JAMAICA"	1
3	"POUGHKEEPSIE"	1
4	"EAST MEADOW"	1
5	"BAY SHORE"	1
6	"UTICA"	1

// Query 5



PART 2