

LAB 3 - 1BM22CS158 - BDA -Neo 4j

Neo4j Desktop - 1.6.1
File Edit View Window Help Developer

Projects **New**

- Example Project
- recommendations
- Project
- recommendations**

Active DBMS: recommendations 5.26.4

recommendations 5.26.4 ACTIVE

system
neo4j (default)

[Create database](#) [Refresh](#)

File

- data
- documentation
- graphql

[Reveal files in File Explorer](#) **Filename**

31°C Sunny

Search

ENG IN 08:41:47 18-03-2025

Active DBMS **recommendations** 5.26.4
recommendations

Stop  Open ...

recommendations

+ Add

 recommendations 5.26.4 ACTIVE

Stop  Open ...

 system

 neo4j (default)

+ Create database  Refresh

File

 [Reveal files in File Explorer](#)  **Filenam**

▸ data


▸ documentation

▸ graphql



Database Information

Use database

neo4j 

Node labels

(28,863) Actor Director

Genre Movie Person User

Relationship types

(166,261) ACTED_IN

DIRECTED IN_GENRE RATED

Property keys

bio born bornIn budget

countries died imdbId

imdbRating imdbVotes

languages movieId name

plot poster rating released

revenue role runtime

tagline timestamp title

tmdbId url userId year

Connected as

Username: neo4j

Roles: admin, PUBLIC

Admin: [.server user list](#)

[.server user add](#)

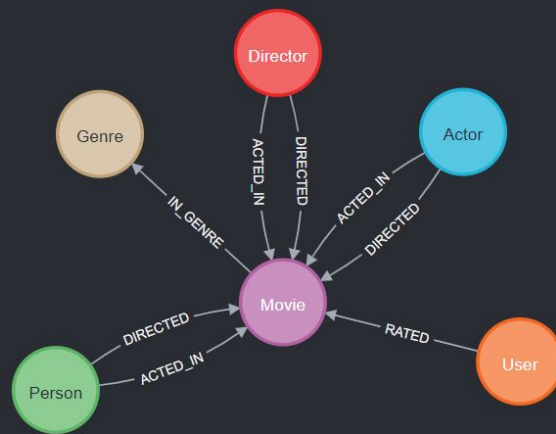
Disconnect: [.server disconnect](#)

DBMS

Cluster role: primary

neo4j\$

neo4j\$ call db.schema.visualization



Overview

Node labels

(0) Movie (1) User (1) Actor (1) Director (1)

Genre (1) Person (1)

Relationship types

(8) ACTED_IN (3) RATED (1) IN_GENRE (1)

DIRECTED (3)

Displaying 6 nodes, 8 relationships.

\$:play start



Getting started with Neo4j Browser

Neo4j Browser user interface guide

[Get started](#)

Try Neo4j with live data

A complete example graph that demonstrates common query patterns.

Actors & movies in cross-referenced pop culture.

[Open guide](#)

Cypher basics

Intro to Graphs with Cypher

What is a graph database?
How can I query a graph?

[Start querying](#)

neo4j\$

neo4j\$ call db.schema.visualization



Graph



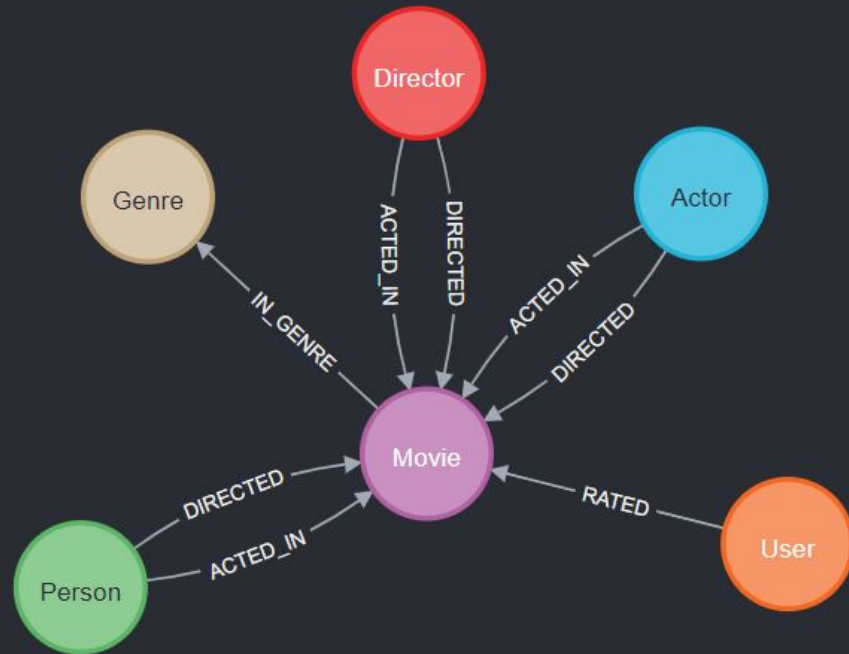
Table



Text



Code



neo4j\$

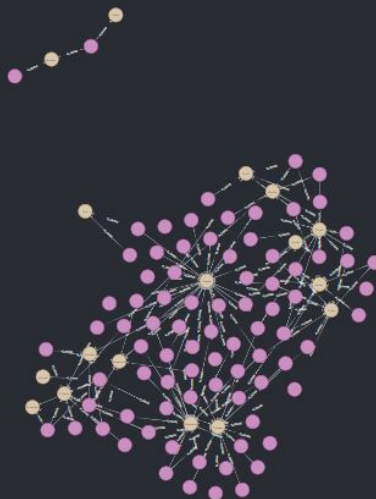
neo4j\$ MATCH (n) RETURN n LIMIT 100

Graph

Table

Text

Code



Overview

Node labels

* (100) Movie (83) Genre (17)

Relationship types

* (189) IN_GENRE (189)

Displaying 100 nodes, 0 relationships.

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

File Edit View Window Help Developer

Database Information

Use database

neo4j

Node labels

There are no labels in database

Relationship types

No relationships in database

Property keys

There are no properties in database

Connected as

Username: neo4j

Roles: admin, PUBLIC

Admin: [server user list](#)

[server user add](#)

Disconnect: [server disconnect](#)

DBMS

Cluster role: primary

Version: 5.26.4

Edition: Enterprise

Name: neo4j

Databases: [db](#)

Information: [sysinfo](#)

Query List: [queries](#)

neo4j\$

\$:play start

Getting started with Neo4j Browser

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A complete example graph that demonstrates common query patterns.

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Get started

Open guide

Cypher basics

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What is a graph database?

How can I query a graph?

\$:server status

Connection status

This is your current connection information

You are connected as user neo4j to bolt://localhost:7687

Connection credentials are stored in your web browser.

Active DBMS Project 1 5.26.4

Stop Open

project158

Graph DBMS 5.26.4 ACTIVE

system

neo4j (default)

Create database Refresh

File

Reveal files in File Explorer

Filename

Add project files to get started.

neo4j\$ CREATE (a: STUDENT {name:"Ragu",id:15})



Tables



Code

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

neo4j\$ CREATE (a: STUDENT {name:"Rai",id:14})



Tables



Code

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

neo4j\$ CREATE (a: STUDENT {name:"Ravi",id:13})



Tables



Code

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

Added 1 label, created 1 node, set 2 properties, completed after 7 ms.

```
neo4j$ MATCH (n) RETURN n
```

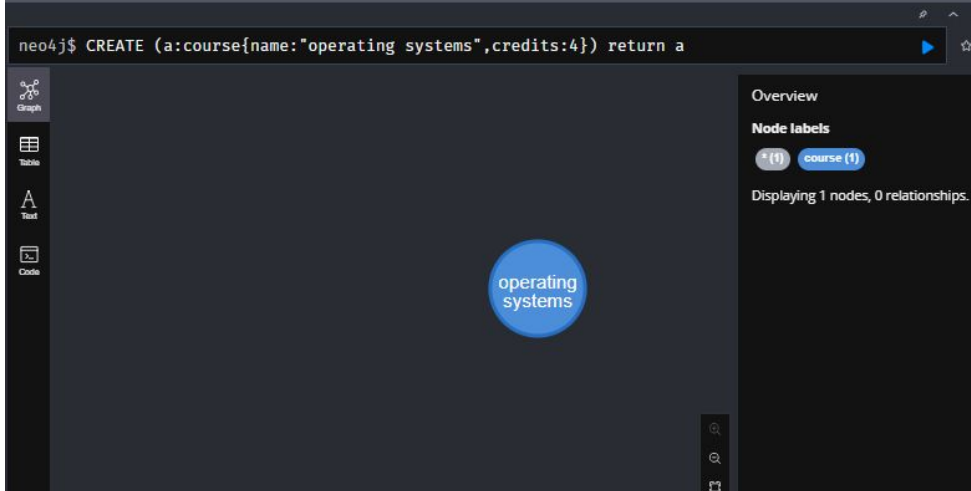
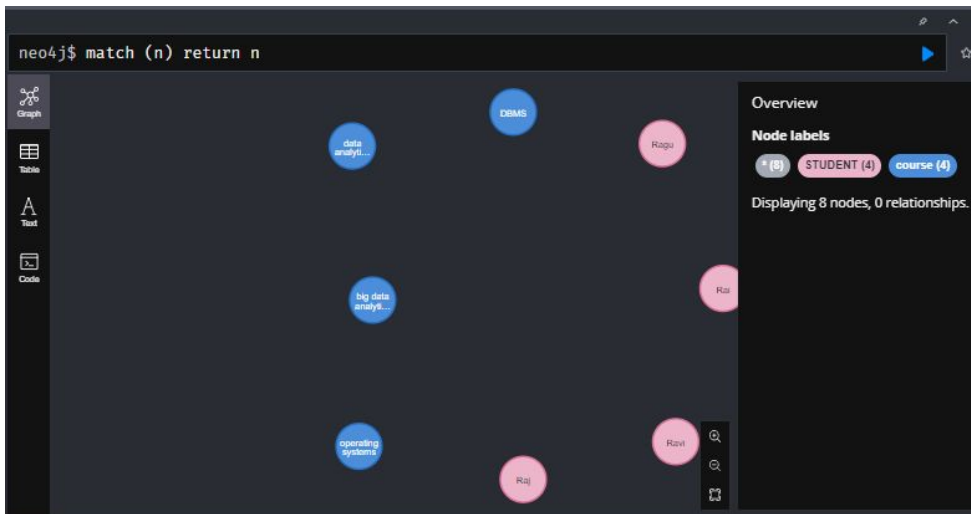


Ragu

Rai

Ravi

Raj



neo4j\$ CREATE (a:TEACHER{name:"Prof.Vikranth"})

Table

Code

Added 1 label, created 1 node, set 1 property, completed after 5 ms.

neo4j\$ CREATE (a:TEACHER{name:"Prof.Radhika"})

Table

Code

Added 1 label, created 1 node, set 1 property, completed after 4 ms.

neo4j\$ CREATE (a:TEACHER{name:"Prof. Sunil"})

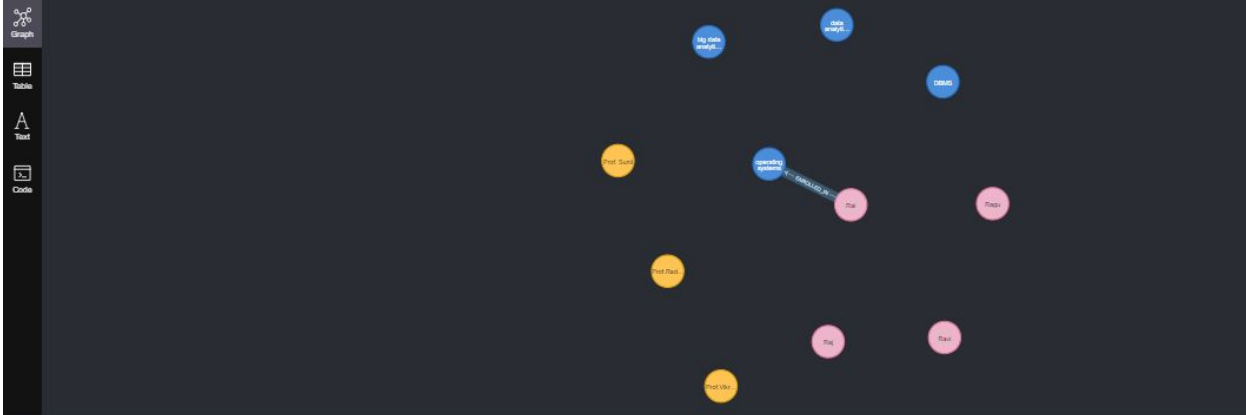
Table

Code

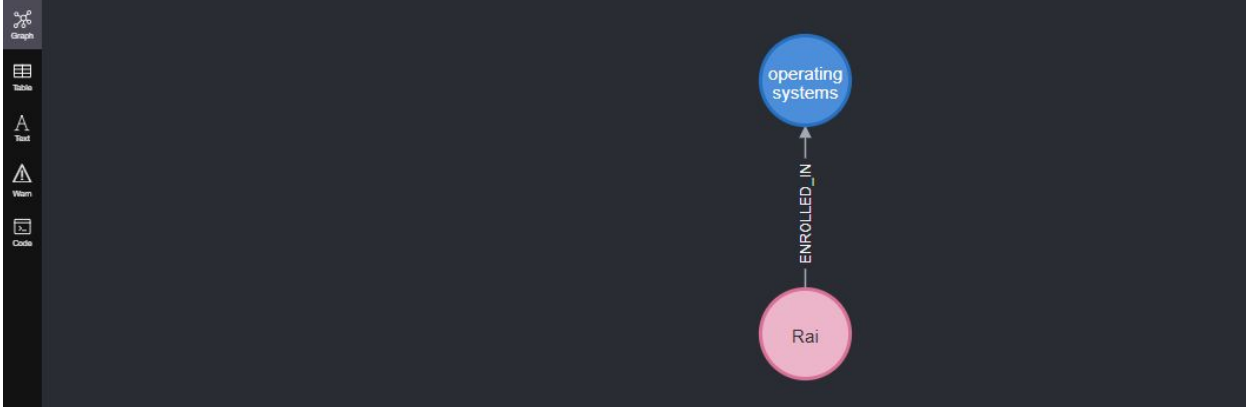
Added 1 label, created 1 node, set 1 property, completed after 8 ms.

neo4j\$

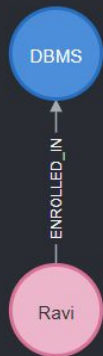
```
neo4j$ match(n) return n
```



```
neo4j$ match (a:STUDENT),(b:course) where a.name="Rai" AND b.name="operating systems" create (a)-[r:ENROLLED_IN]→(b) return a,b
```



```
neo4j$ match (a:STUDENT),(b:course) where a.name="Ravi" AND b.name="DBMS" create (a)-[r:ENROLLED_IN]-(b) return a,b
```



Overview

Node labels

* (2) STUDENT (1) course (1)

Relationship types

* (1) ENROLLED_IN (1)

Displaying 2 nodes, 0 relationships.

```
neo4j$ match(n) return n
```



Node properties

course

<elementId 4:b4797c03-0acb-45fd-aa63-cbd405613b67-5>

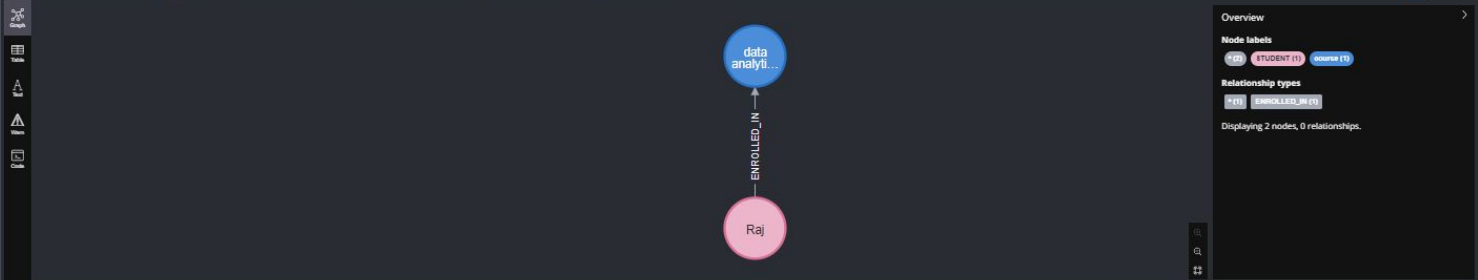
<Id> 5

credits 4

name data analytics

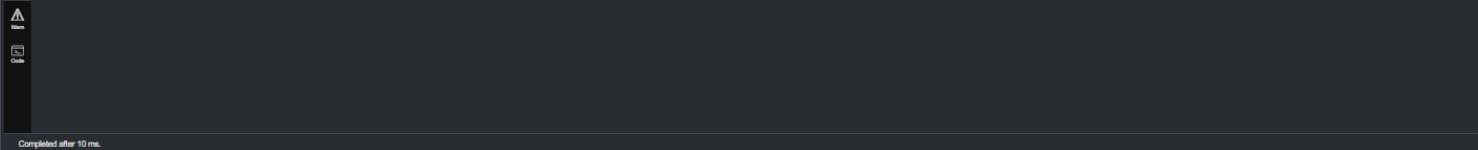


```
neo4j$ match (a:STUDENT),(b:course) where a.name="Raj" AND b.name="data analytics" create (a)-[r:ENROLLED_IN]->(b) return a,b
```

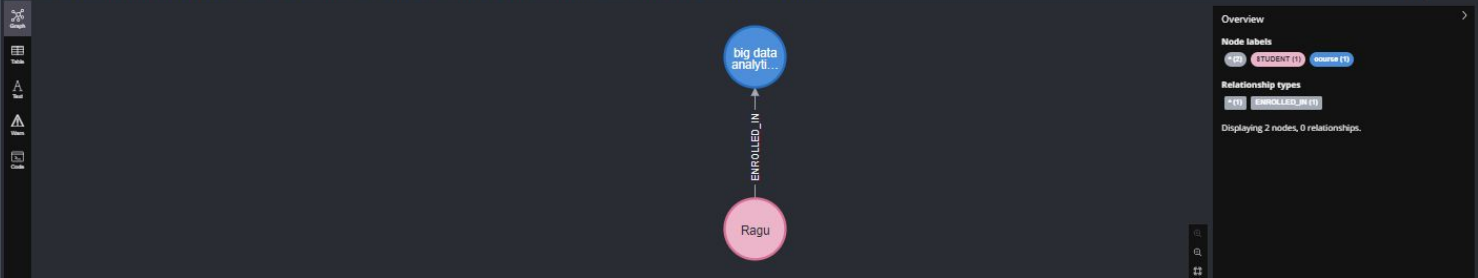


```
neo4j$ match (a:STUDENT),(b:course) where a.name="Raj" AND b.name=" data analytics" create (a)-[r:ENROLLED_IN]->(b) return a,b
```

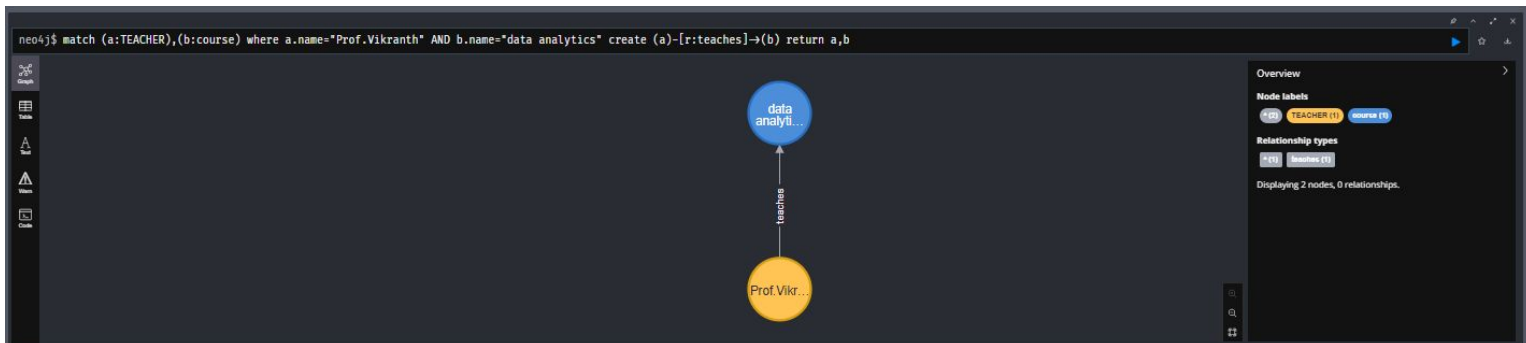
(no changes, no records)



```
neo4j$ match (a:STUDENT),(b:course) where a.name="Ragu" AND b.name="big data analytics" create (a)-[r:ENROLLED_IN]->(b) return a,b
```



```
neo4j$ match (a:TEACHER),(b:course) where a.name="Prof.Vikranth" AND b.name="data analytics" create (a)-[r:teaches]->(b) return a,b
```



Overview

Node labels

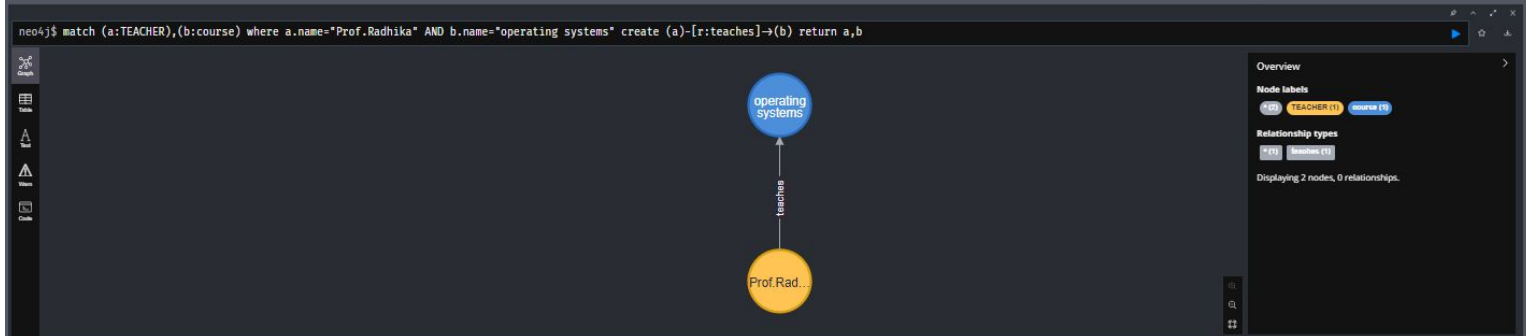
- TEACHER (1)
- COURSE (1)

Relationship types

- teaches (1)

Displaying 2 nodes, 0 relationships.

```
neo4j$ match (a:TEACHER),(b:course) where a.name="Prof.Radhika" AND b.name="operating systems" create (a)-[r:teaches]->(b) return a,b
```



Overview

Node labels

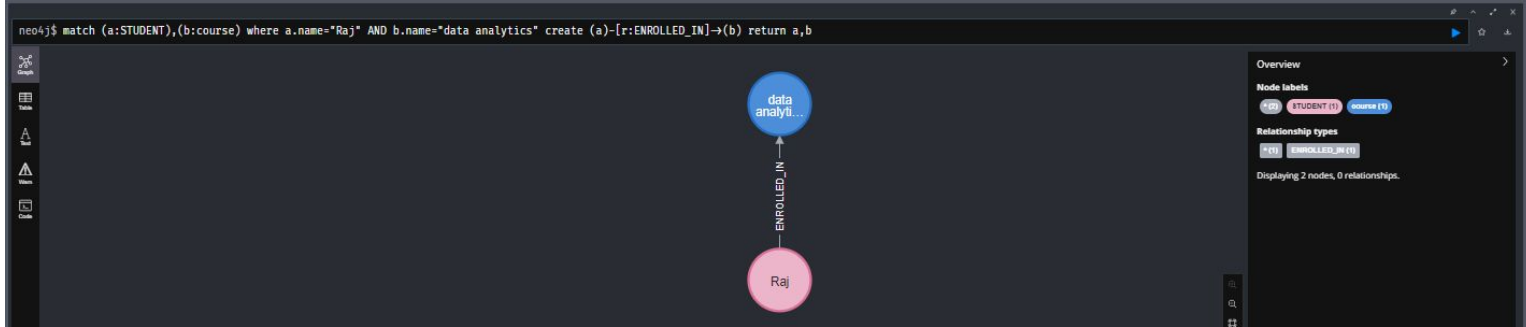
- TEACHER (1)
- COURSE (1)

Relationship types

- teaches (1)

Displaying 2 nodes, 0 relationships.

```
neo4j$ match (a:STUDENT),(b:course) where a.name="Raj" AND b.name="data analytics" create (a)-[r:ENROLLED_IN]->(b) return a,b
```



Overview

Node labels

- STUDENT (1)
- COURSE (1)

Relationship types

- ENROLLED_IN (1)

Displaying 2 nodes, 0 relationships.

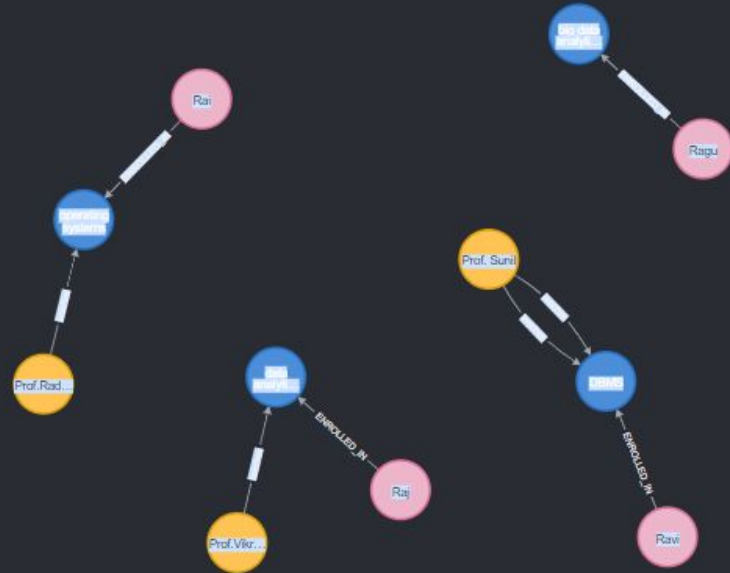
```
neo4j$ match(n) return n
```

Graph

Table

Text

Code



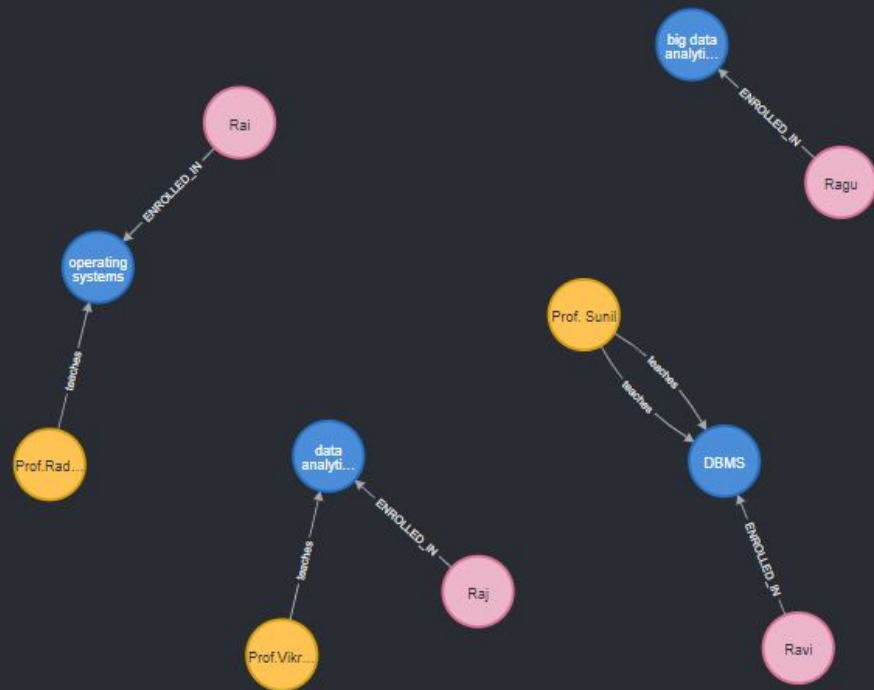
```
neo4j$ match(n) return n
```



Graph

Table

Text

Code





```
1 MATCH (a:TEACHER), (b:COURSE) Where a.name = "Prof. Aman" AND b.name = "DBMS" OR b.name
2 CREATE (a)-[r:TEACHES]→(b)
3
```

