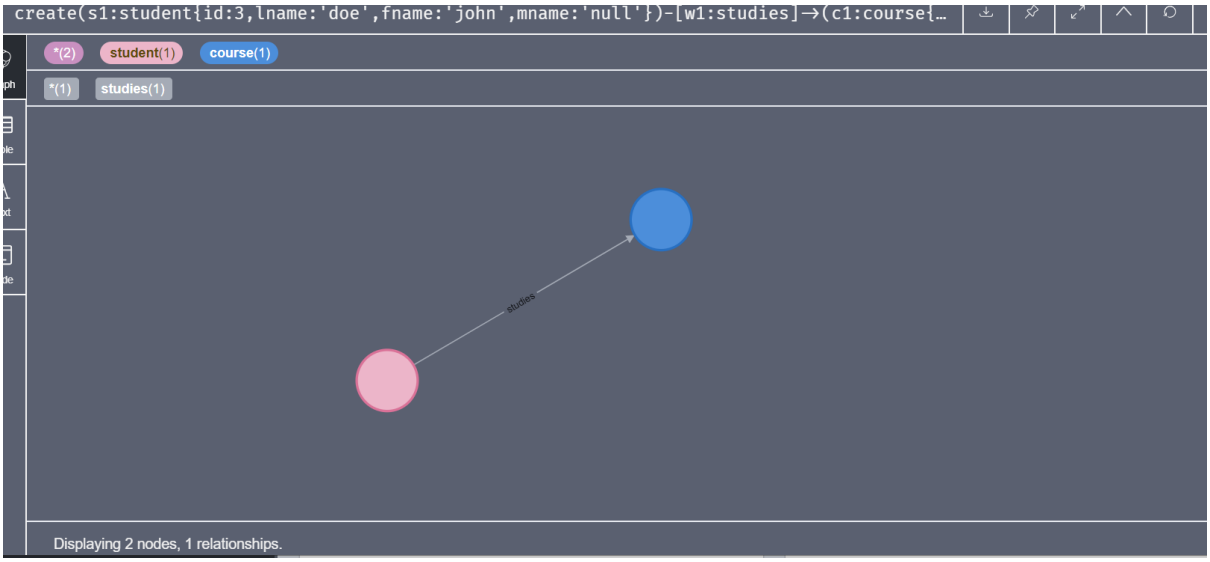
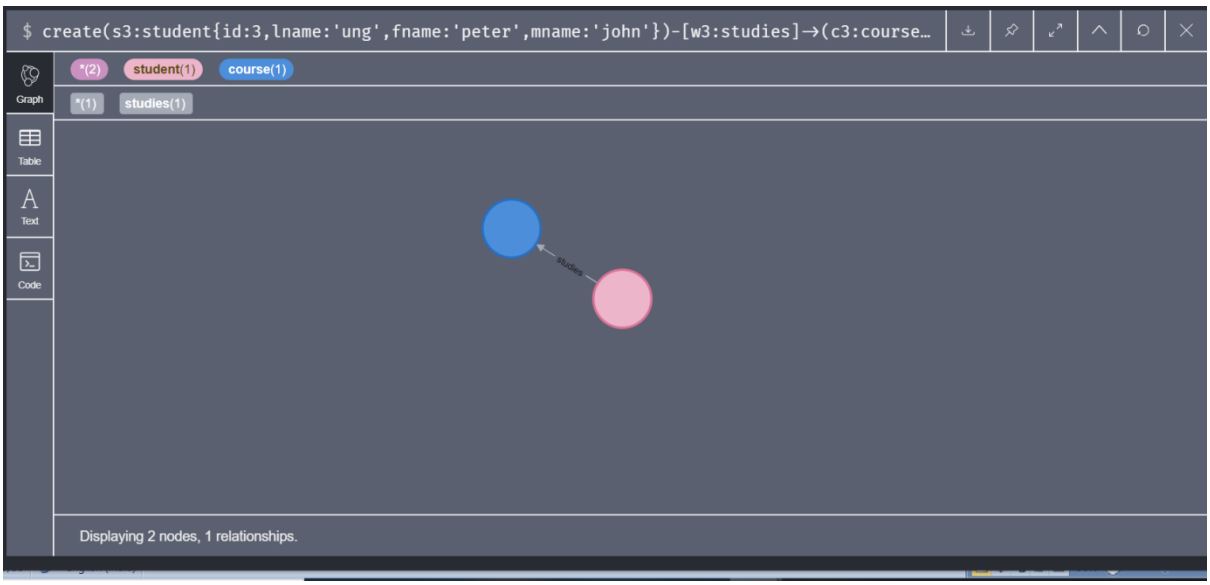
create(s1:student{id:3,lname:'doe',fname:'john',mname:'null'})-[w1:studies]->(c1:course{num:'c2',name:'programming'}) return s1,w1,c1



create(s3:student{id:3,lname:'ung',fname:'peter',mname:'john'})-[w3:studies]->(c3:course{num:'c2',name:'programming'}) return s3,w3,c3



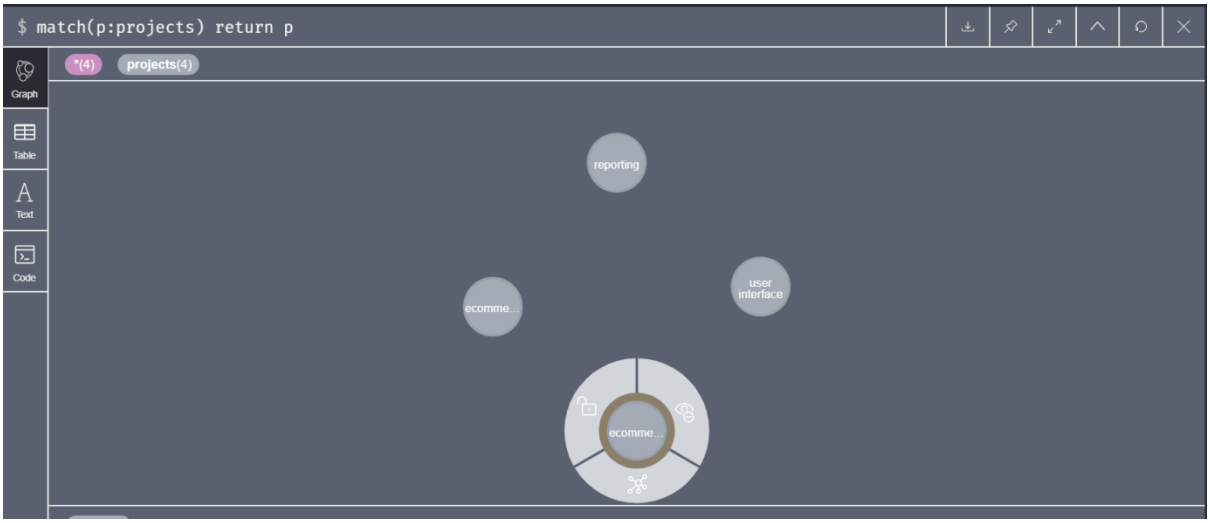
create(p1:projects{no:34,name:'ecommerce database'}) return p1

create(p2:projects{no:24,name:'ecommerce website'}) return p2

create(p3:projects{no:13,name:'user interface'}) return p3

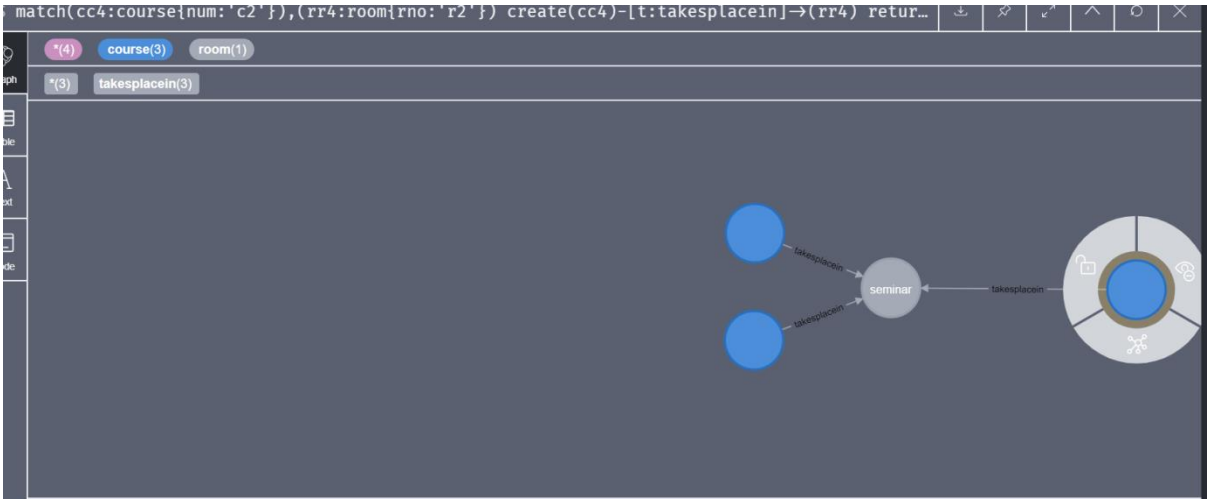
create(p4:projects{no:26,name:'reporting'}) return p4

match(p:projects) return p

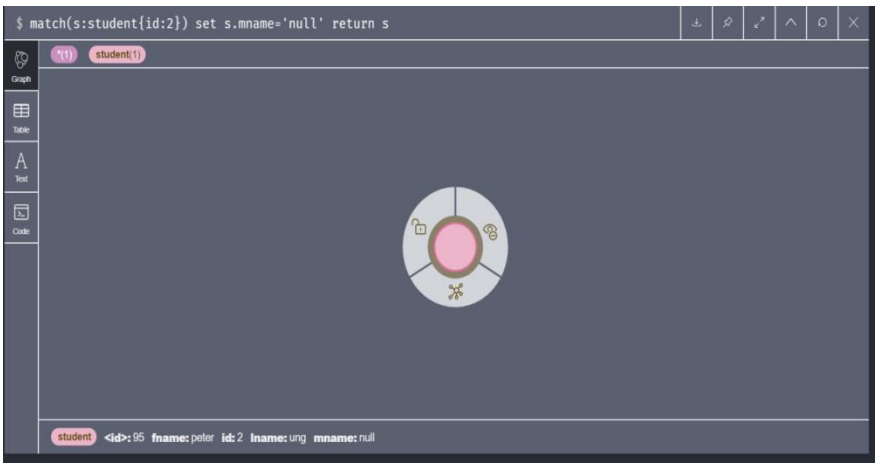


match(st1:student{id:1}),(pr1:projects{no:'p1'}) create(st1)-[w:workson]->(pr1) set w.hrs=1 return st1,w,pr1

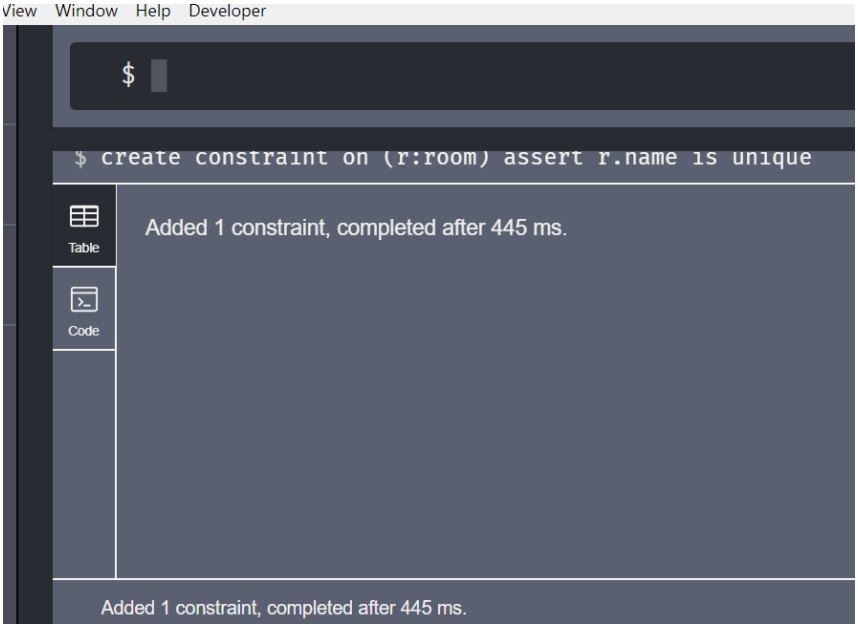
match(cc4:course{num:'c2'}),(rr4:room{rno:'r2'}) create(cc4)-[t:takesplacein]->(rr4) return cc4,t,rr4



match(s:student{id:2}) set s.mname='null' return s

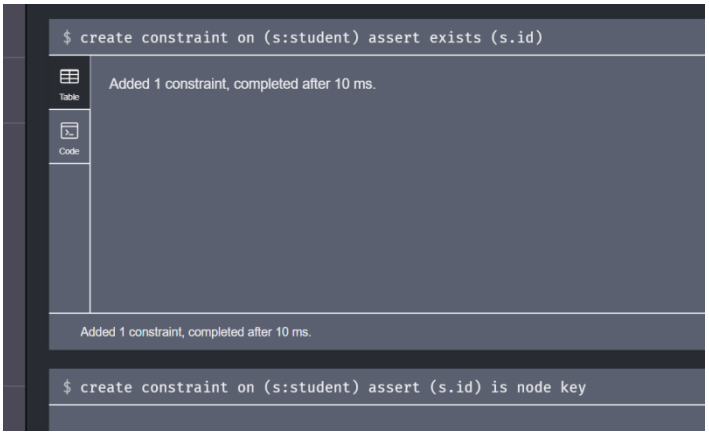


create constraint on (r:room) assert r.name is unique

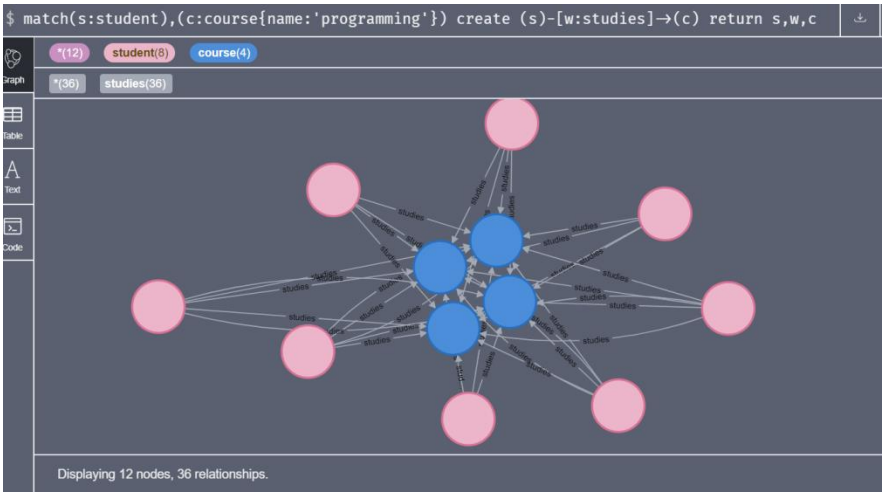


create constraint on (s:student) assert (s.id) is node key

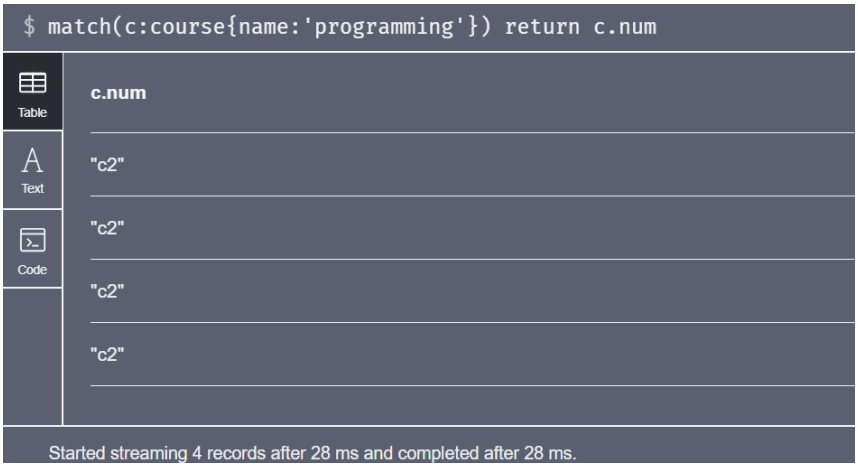
create constraint on (s:student) assert exists (s.id)



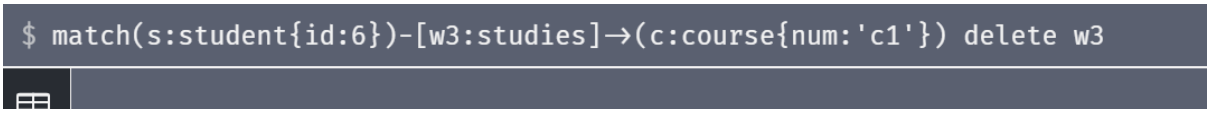
match(s:student),(c:course{name:'programming'}) create (s)-[w:studies]->(c) return s,w,c



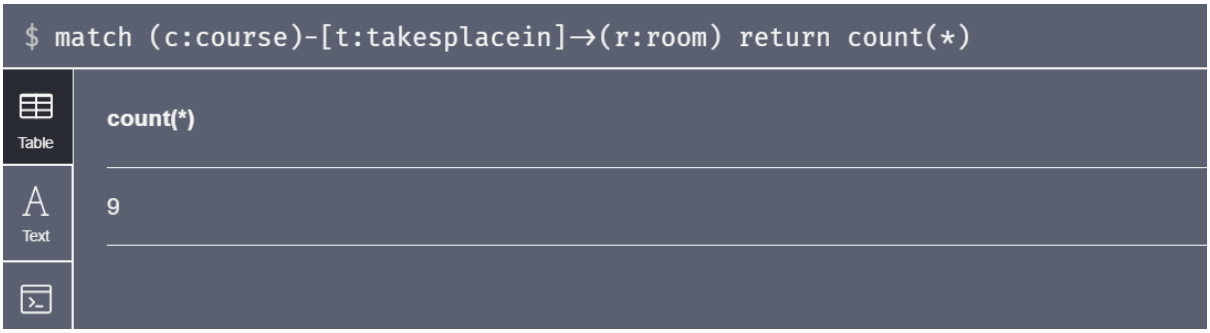
match(c:course{name:'programming'}) return c.num



match(s:student{id:6})-[w3:studies]->(c:course{num:'c1'}) delete w3



match (c:course)-[t:takesplacein]->(r:room) return count(*)



match (c:course{num:'c1'})-[t:takesplacein]->(r:room) return count(*)

```
$ match (c:course{num:'c1'})-[t:takesplacein]→(r:room) return count(*)
```

Table

count(*)
6

match(s:student)-[w3:studies]->(c:course) return count(*),s.id

```
$ match(s:student)-[w3:studies]→(c:course) return count(*),s.id
```

Table

count(*)	s.id
13	1
39	3
12	5
13	4
13	2

Started streaming 5 records after 84 ms and completed after 84 ms.

match(s:student)-[w3:studies]->(c:course) return count(*),c.num

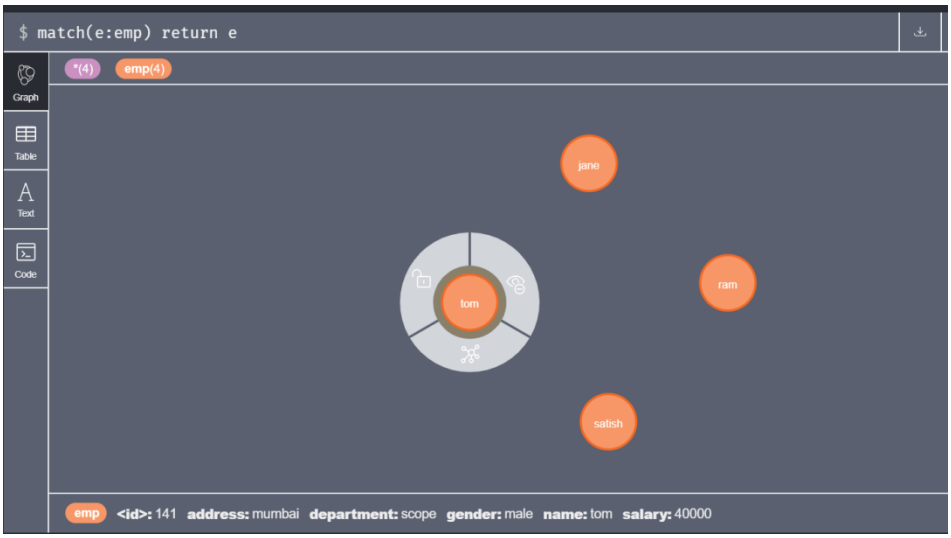
```
$ match(s:student)-[w3:studies]→(c:course) return count(*),c.num
```

Table

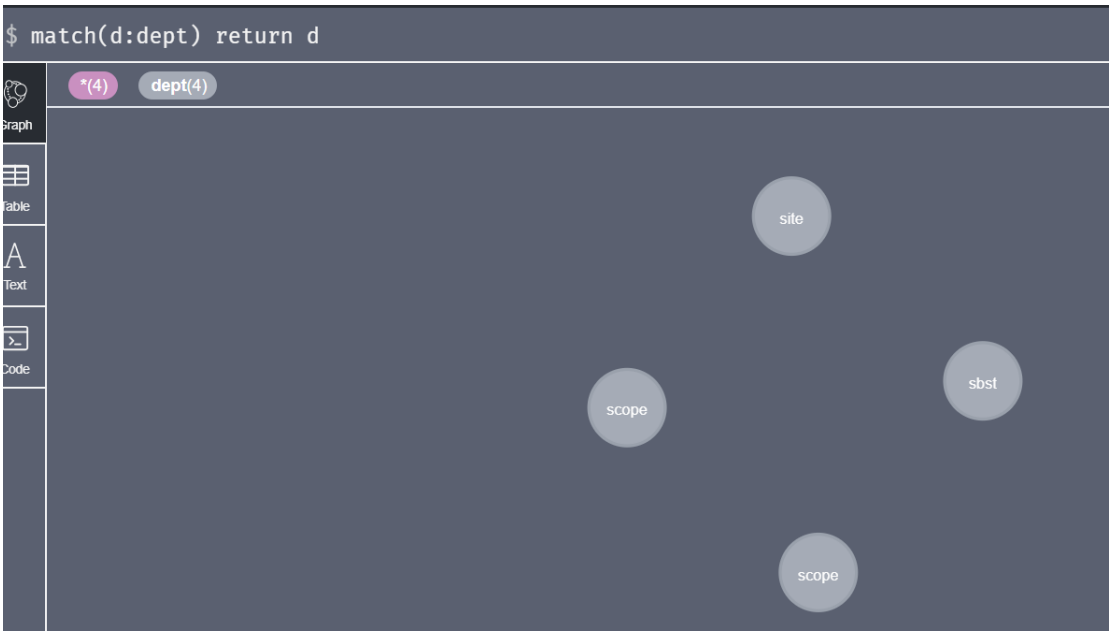
count(*)	c.num
88	"c2"
2	"c1"

match(s:student)-[w3:studies]->(c:course{num:'c2'}) where s.fname starts with 'd' return s

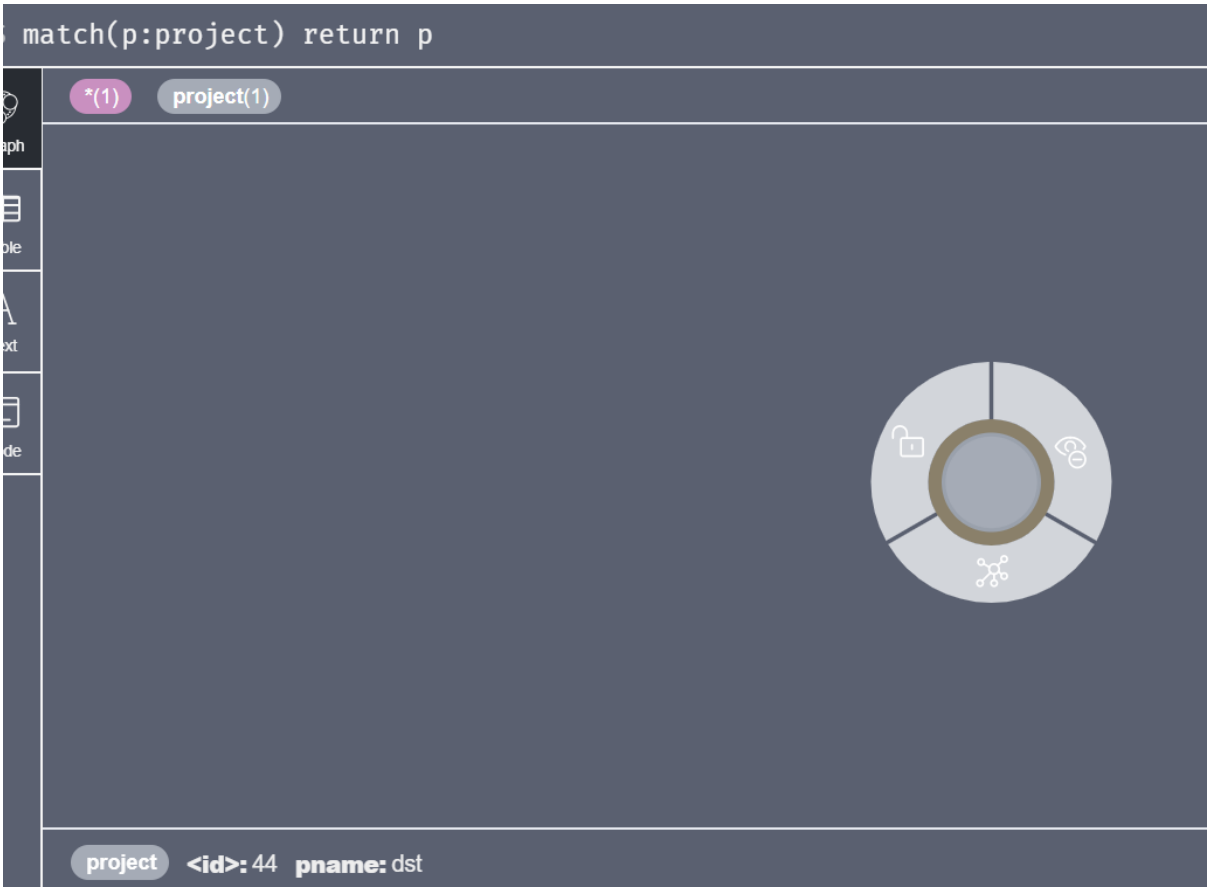
match(e:emp) return e



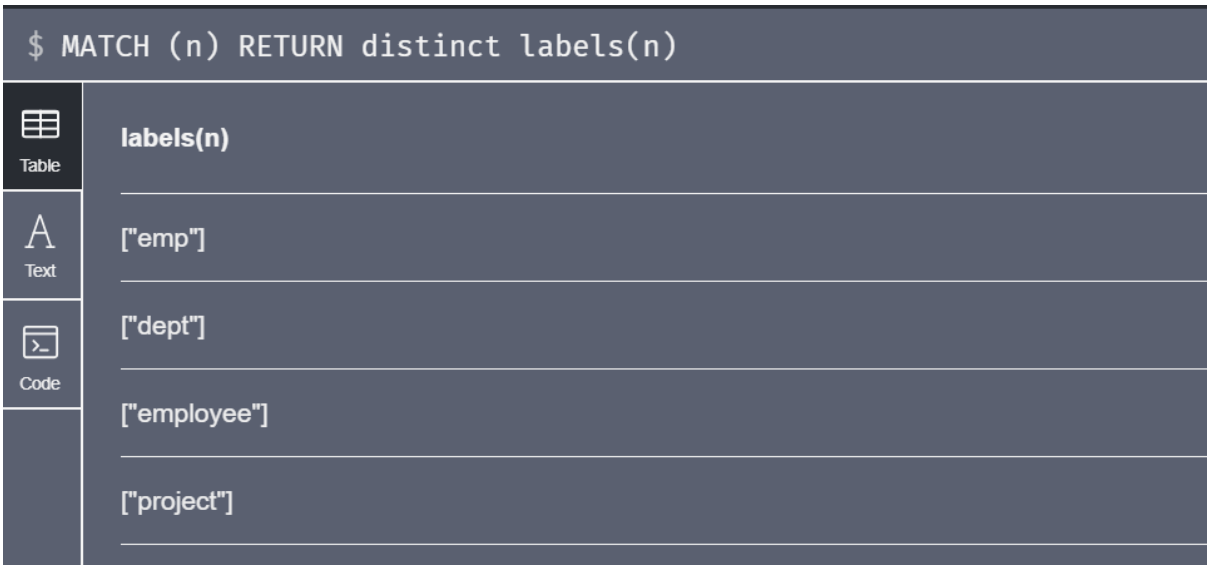
match(d:dept) return d



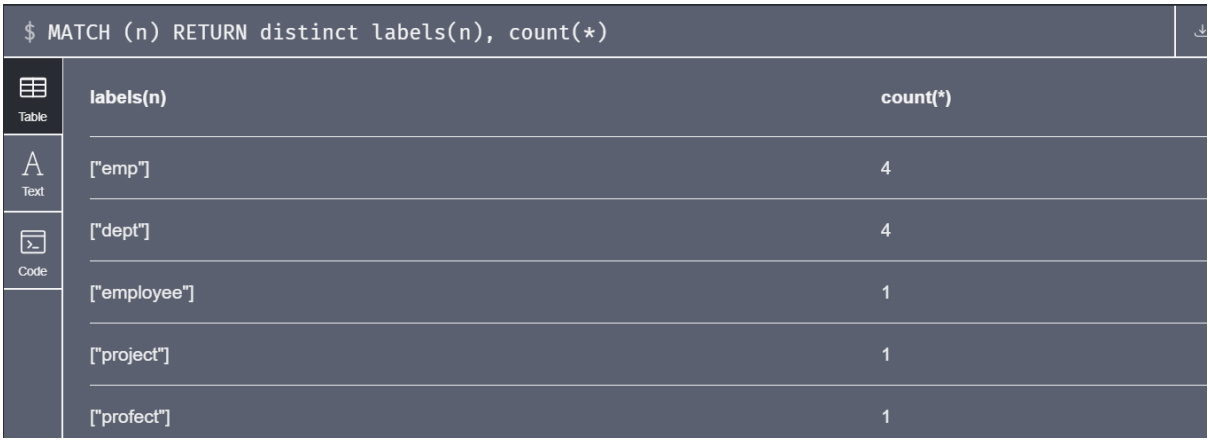
match(p:project) return p



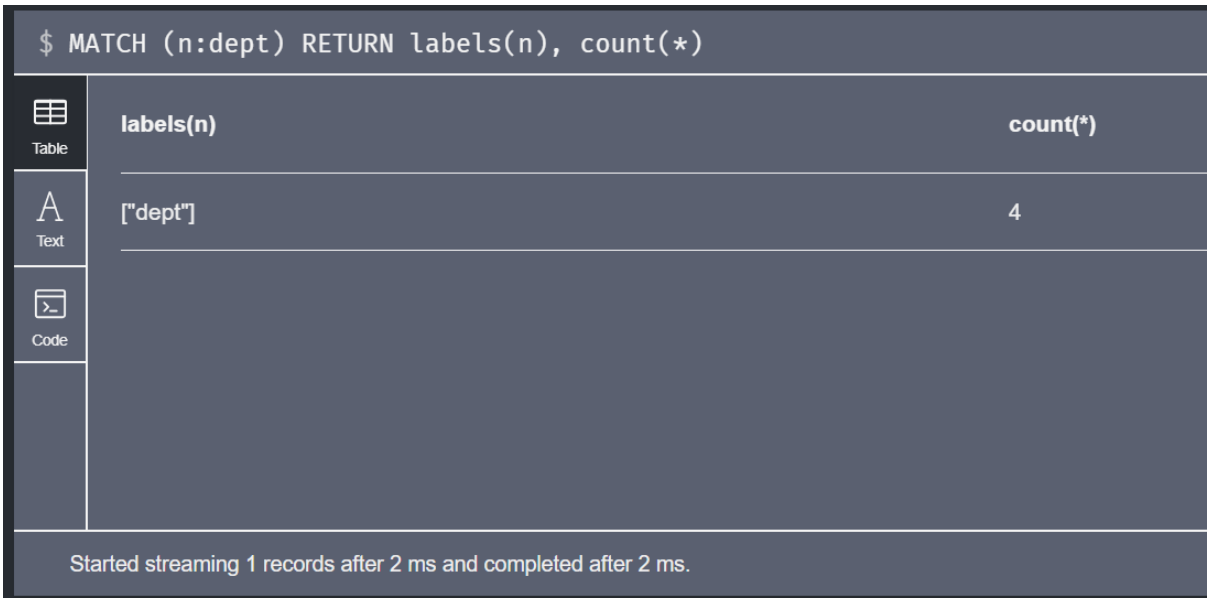
MATCH (n) RETURN distinct labels(n)



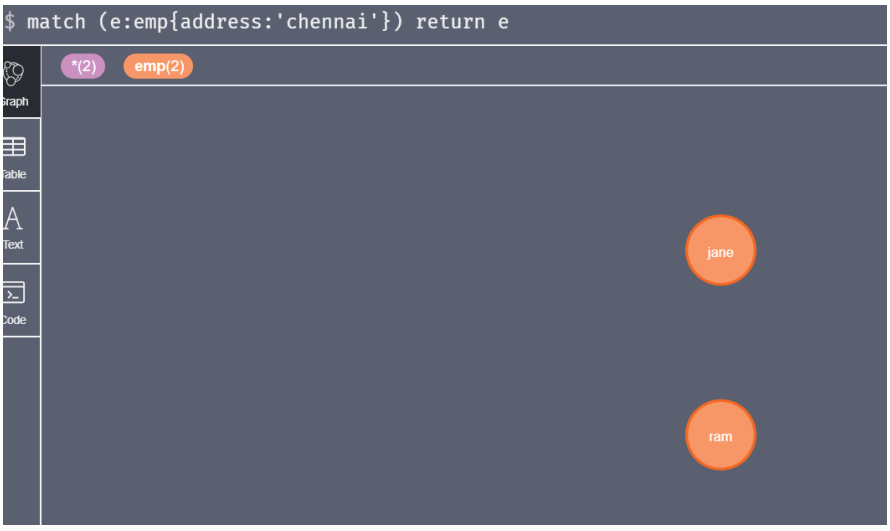
MATCH (n) RETURN distinct labels(n), count(*)



MATCH (n:dept) RETURN labels(n), count(*)



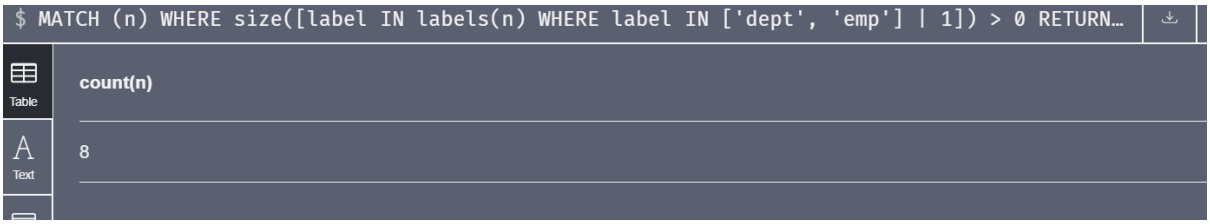
match (e:emp{address:'chennai'}) return e



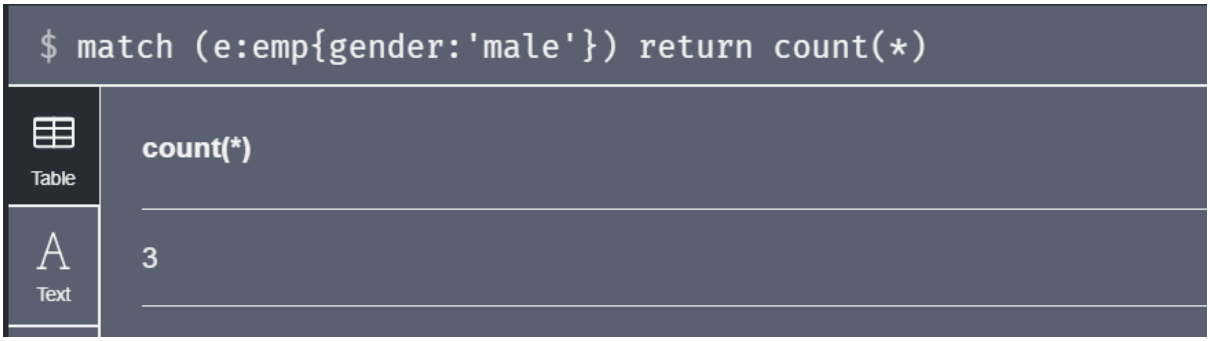
MATCH (n)

WHERE size([label IN labels(n) WHERE label IN ['dept', 'emp'] | 1]) > 0

RETURN count(n)



match (e:emp{gender:'male'}) return count(*)



match(e:emp) where e.address in ['vellore','chennai'] return e

match(e:emp) where e.address in ['vellore','chennai'] return e.salary

```
$ match(e:emp) where e.address in ['vellore','chennai'] return e.salary
```

Table | Text | Code

e.salary
20000
60000
30000

match(e:emp) where e.department in ['scope'] return e

```
$ match(e:emp) where e.department in ['scope'] return e
```

Graph | Table | Text | Code

*(2) emp(2)

match(e:emp) where e.department in ['sbst'] return e.gender,e.department

```
$ match(e:emp) where e.department in ['sbst'] return e.gender,e.department
```

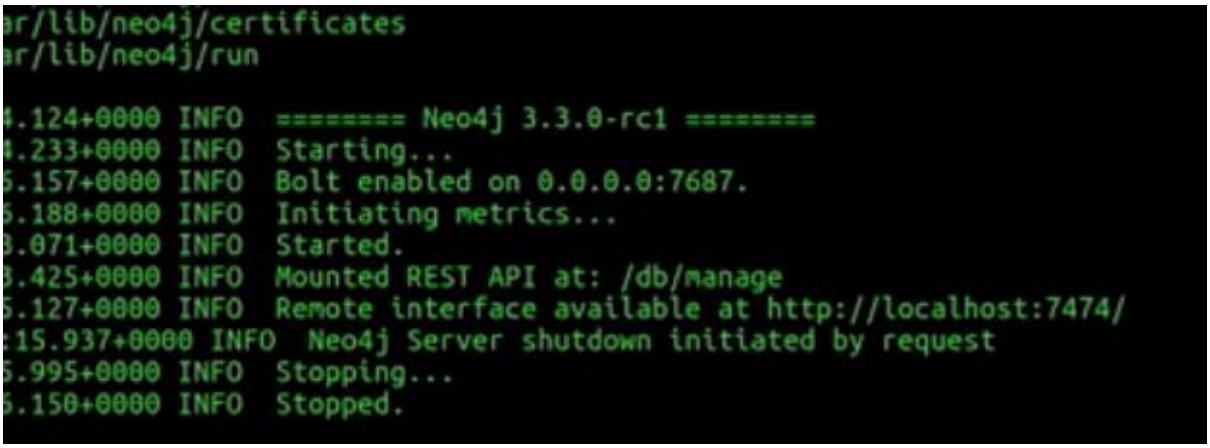
Table | Text | Code

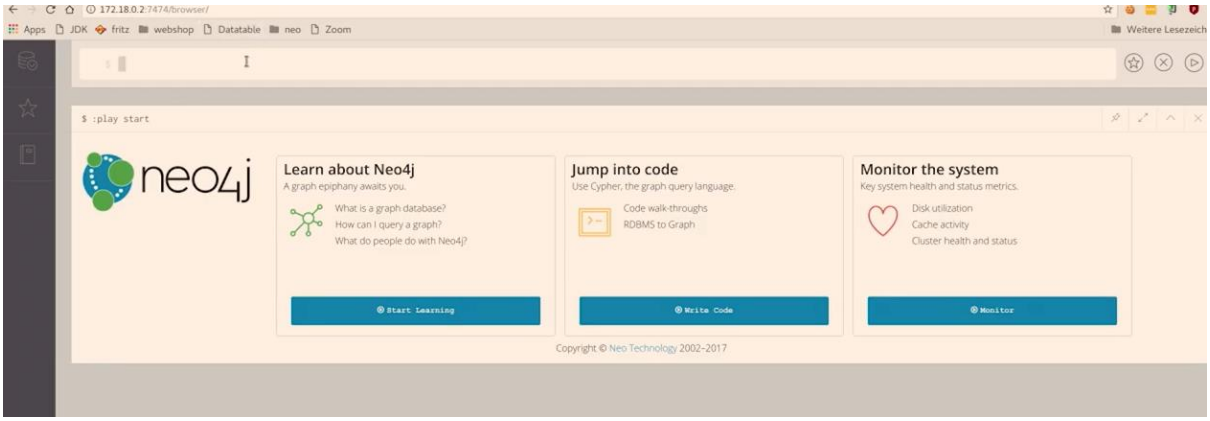
e.gender	e.department
"male"	"sbst"

Started streaming 1 records after 1 ms and completed after 3 ms.

match(e:emp) where e.salary > 25000 and e.department in ['scope'] return e

CASUAL CLUSTERS






$:sysinfo
Store Sizes
Array Store 8.00 KiB
Logical Log 90 B
Node Store 0 B
Property Store 0 B
Relationship Store 0 B
String Store 8.00 KiB
Total Store Size 136.31 KiB
ID Allocation
Node ID 0
Property ID 0
Relationship ID 0
Relationship Type ID 0
Page Cache
Faults 62
Evictions 0
File Mappings 93
Bytes Read 327650
Flushes 20
Eviction Exceptions 0
File Unmappings 76
Bytes Written 196598
Transactions
Last Tx Id 2
Current 2
Peak 2
Opened 15
Committed 10
Causal Cluster Members
Roles Addresses Actions
LEADER bolt://core1:7687, http://core1:7474, https://core1:7473 Open
FOLLOWER bolt://core2:7687, http://core2:7474, https://core2:7473 Open
FOLLOWER bolt://core3:7687, http://core3:7474, https://core3:7473 Open
READ_REPLICA bolt://rr1:7687, http://rr1:7474, https://rr1:7473 Open
$:play start