

DBMS LAB WEEK 2

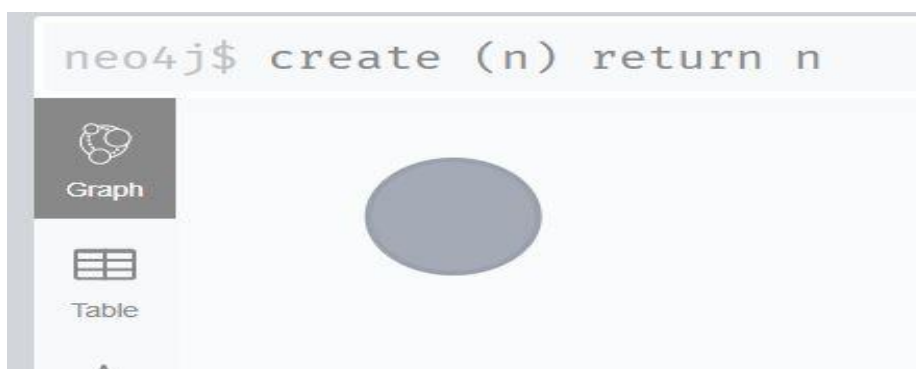
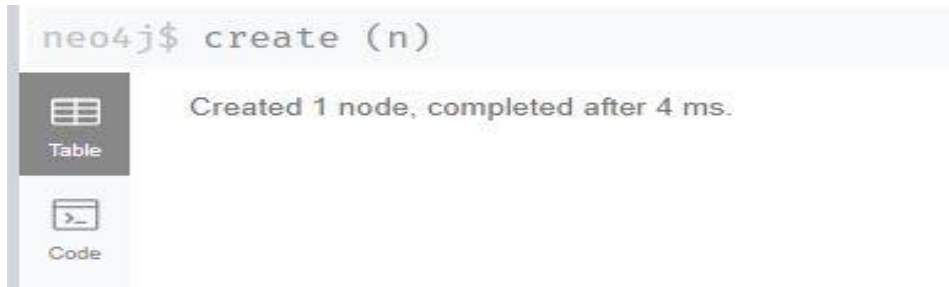
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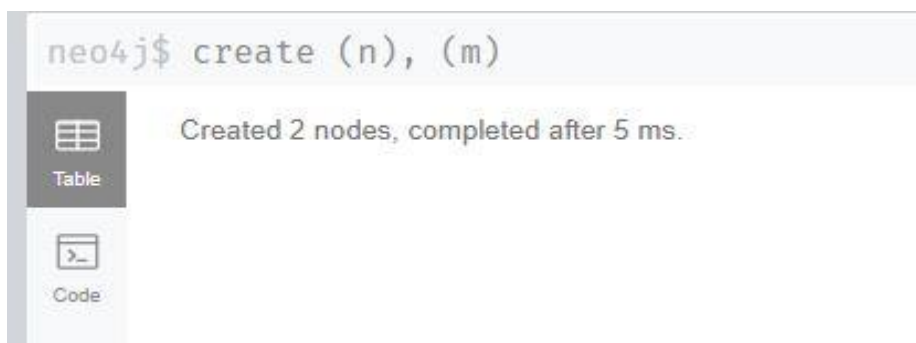
SECTION: D

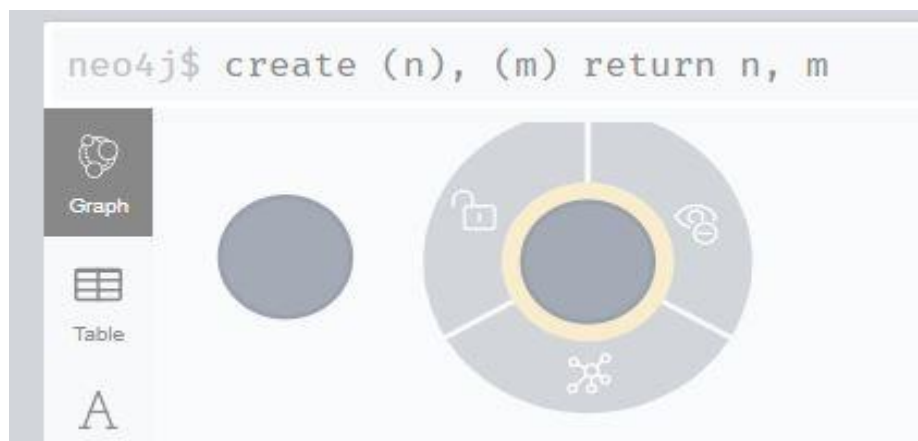
1. Create node with varying fields.

- Creating Single Node

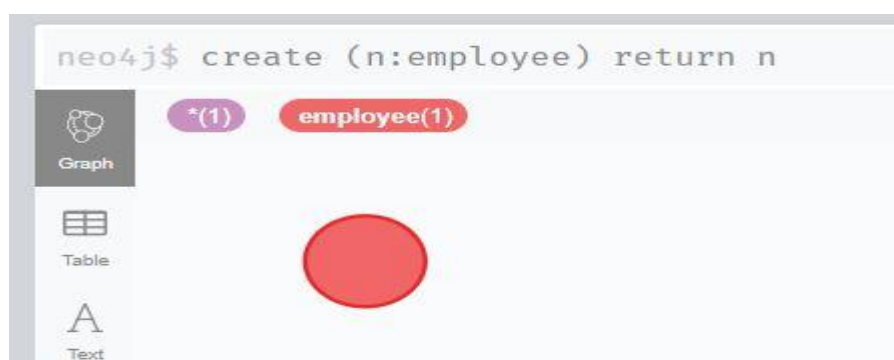
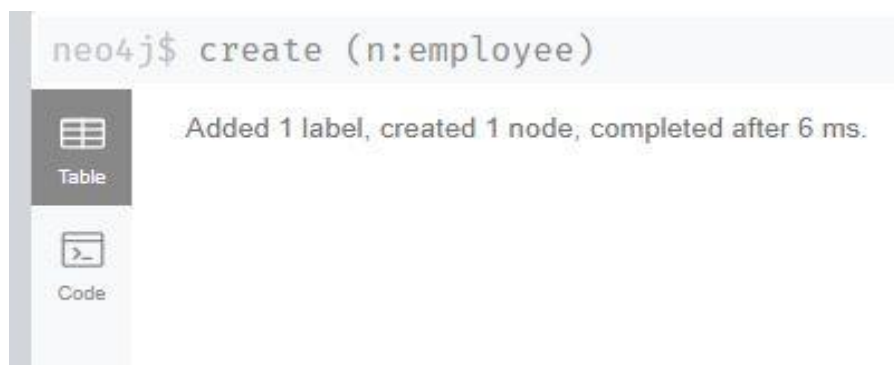


- Creating Multiple Nodes





- Creating Node with Label



- Creating Node with Multiple Labels

```
neo4j$ create (n:location:TCS)
```

Added 2 labels, created 1 node, completed after 11 ms.

Table

Code

```
neo4j$ create (n:location:TCS) return n
```

*(2) TCS(1) location(1)

Graph

2968

Table

Text

- Creating Node and Adding Labels and Properties

```
neo4j$ create (n:employee {ssn:'101', name:'ajit'})
```

Added 1 label, created 1 node, set 2 properties, completed after 9 ms.

Table

Code

```
neo4j$ create (n:employee {ssn:'101', name:'ajit'}) return n
```



The interface shows a sidebar on the left with three options: Graph (selected), Table, and Text. The main area displays a graph view with a single red circular node labeled 'ajit'. Above the graph, there are two labels: a purple circle with an asterisk and '(1)', and a red pill-shaped label with the text 'employee(1)'.

- Creating Node with Parameters as Properties

```
$ :params {"props" : {"ssn": "202", "name": "Aman"}}
```

```
{
  "props": {
    "ssn": "202",
    "name": "Aman"
  }
}
```

See [🔗 :help param](#) for usage of the :param command.

2. Add relationships between the nodes

```
neo4j$ create (n:Department {dept_name:'Testing', year:'4'})
```



Table



Code

Added 1 label, created 1 node, set 2 properties, completed after 36 ms.

```
neo4j$ create (n:Department {dept_name:'Testing', year:'4'}) return n
```



Graph



Table



Text



Code

*(1)

Department(1)



```
neo4j$ create (n:Department {dept_name:'Designing', year:'6'})
```



Table



Code

Added 1 label, created 1 node, set 2 properties, completed after 19 ms.



Graph



Table



Code

*(1)

Department(1)



```
neo4j$ match(e:employee),(d:Department) where e.name='ajit' and d.dept_name='Testing' create(e)-[emp:worksAt] → (d)
```



Created 6 relationships, completed after 82 ms.



Graph



Table



Text



Warn



Code

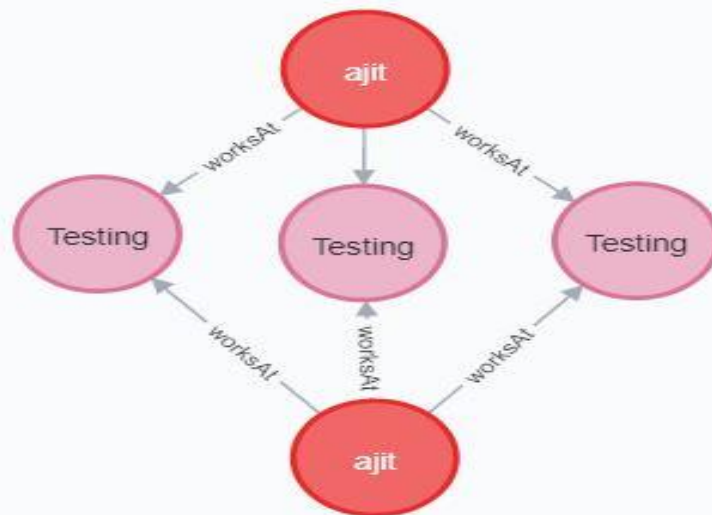
*(5)

employee(2)

Department(3)

*(6)

worksAt(6)



3. Retrieve nodes:

```
neo4j$ match(n:employee) return n.ssn
```

	n.ssn
1	<i>null</i>
2	"101"

```
neo4j$ match(Department {dept_name: 'Testing'}) -- (employee) return employee.name
```

	employee.name
1	"ajit"

4. Delete values:

```
neo4j$ match(n:employee {name:'ajit'})-[r:worksAt] → () delete r
```

Deleted 24 relationships, completed after 30 ms.

```
neo4j$ match (n:employee {name:'jack'}) delete n
```

Deleted 1 node, completed after 20 ms.

