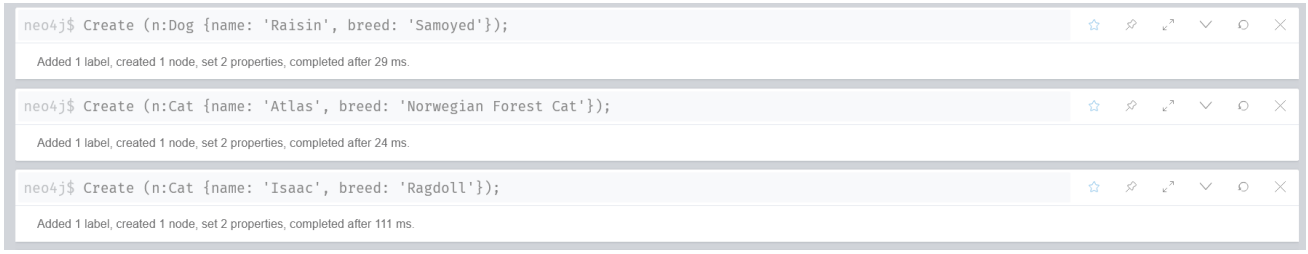
DBMS Lab 2 - Neo4j

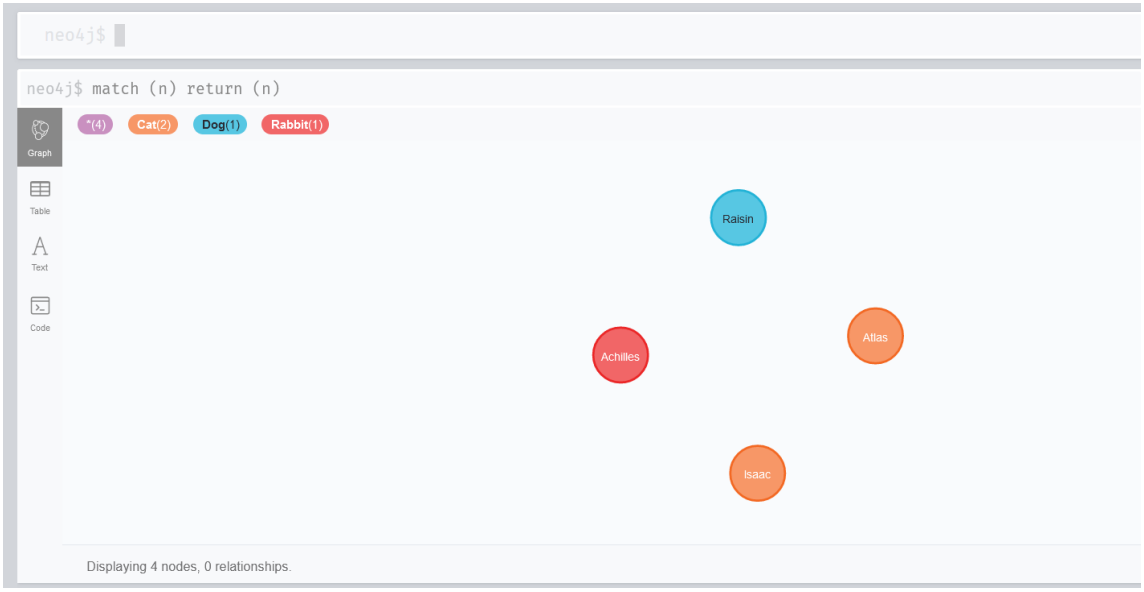
KARTIKA NAIR
PES1UG19CS213
11TH SEPTEMBER 2021

Creating nodes with varying fields

Creating different types of nodes with different properties:



Displaying all nodes in graph form:



Adding properties to nodes

The nodes in the graph above are detailed in the table below:

LABEL	PROPERTIES	
	NAME	BREED
Cat	Isaac	Ragdoll
Cat	Atlas	Norwegian Forest Cat
Dog	Raisin	Samoyed
Rabbit	Achilles	Holland Lop

Adding relationships between nodes

Adding the relationships:

```
neo4j$ match (n:Cat),(u:Dog) where n.name='Isaac' and u.name='Raisin' create(n)-[:Pats]→(u)
```

Created 1 relationship, completed after 9 ms.

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

```
neo4j$ match (n:Cat),(u:Rabbit) where n.name='Atlas' and u.name='Achilles' create(n)-[:Eats]→(u)
```

Created 1 relationship, completed after 7 ms.

```
neo4j$ match (n:Cat),(u:Dog) where n.name='Atlas' and u.name='Raisin' create(n)-[:Attacks]→(u)
```

Created 1 relationship, completed after 10 ms.

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

```
neo4j$ match (n:Cat),(u:Rabbit) where n.name='Isaac' and u.name='Achilles' create(n)-[:FriendsWith]→(u)
```

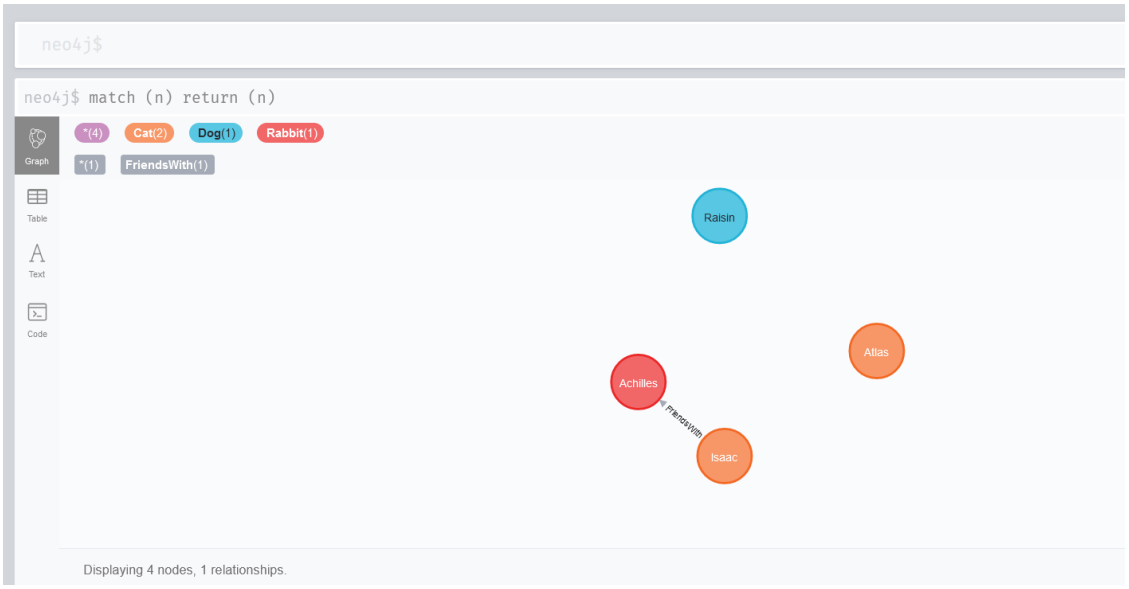
Created 1 relationship, completed after 17 ms.

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

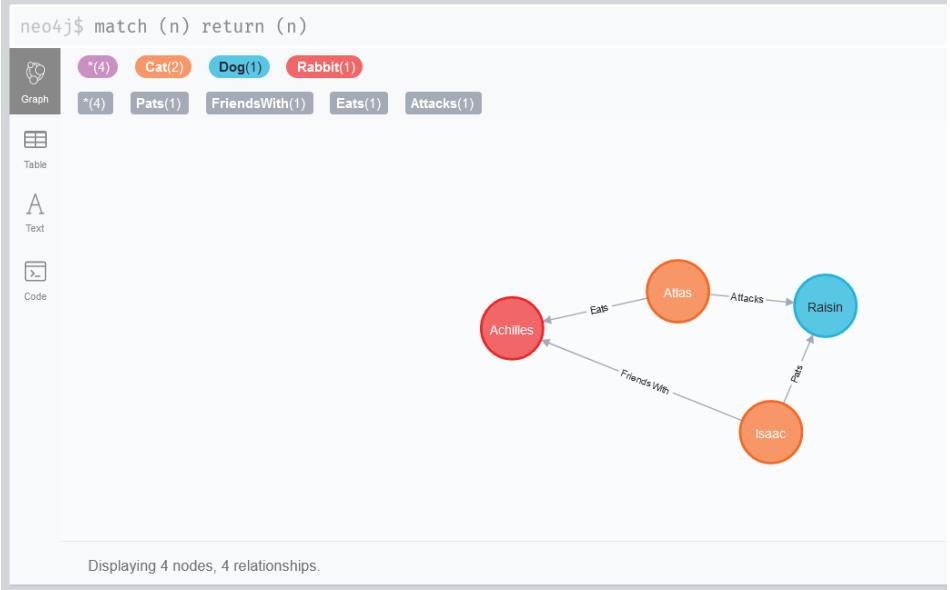
```
neo4j$ match (n:Cat),(n:Rabbit) where n.name='Isaac' and n.name='Achilles' create(n)-[:FriendsWith]→(n)
```

Completed after 7 ms.

Displaying the first relationship as a graph:



Displaying all relationships as a graph:



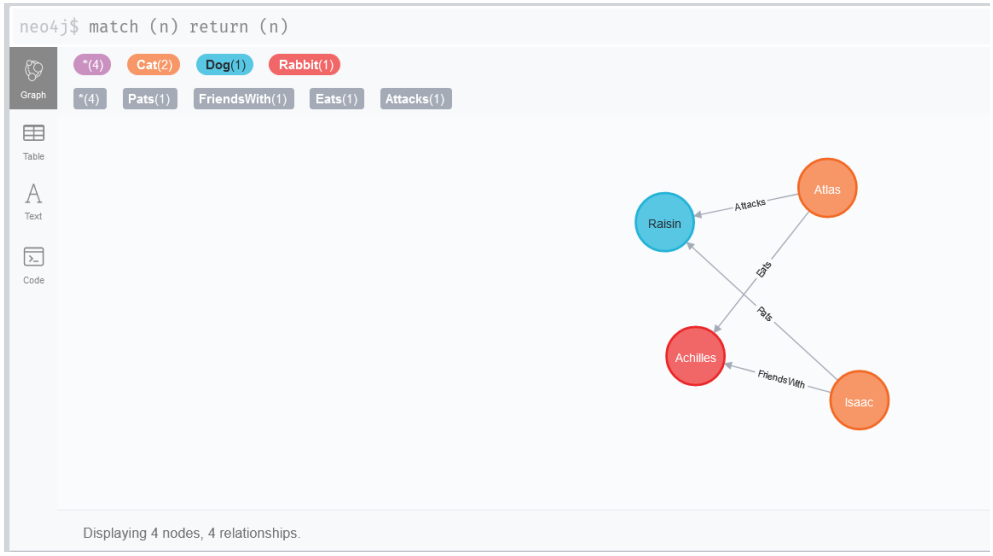
Retrieving nodes and relationships

Retrieving the nodes based on label

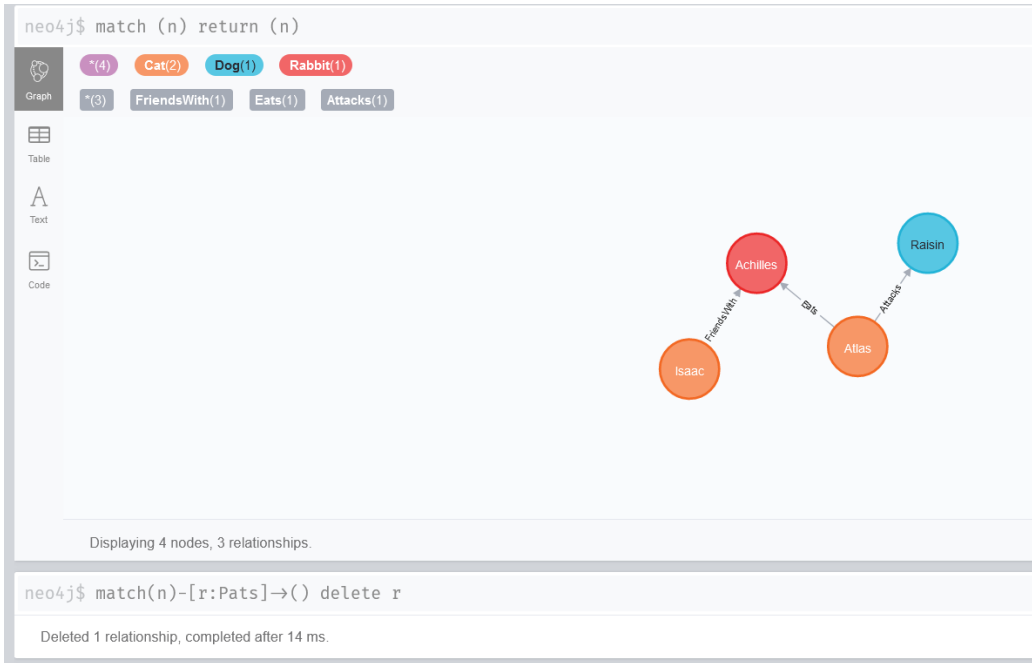
Retrieving the nodes based on filter

Deleting nodes and relationships

Deleting a certain relationship (graph before deletion):

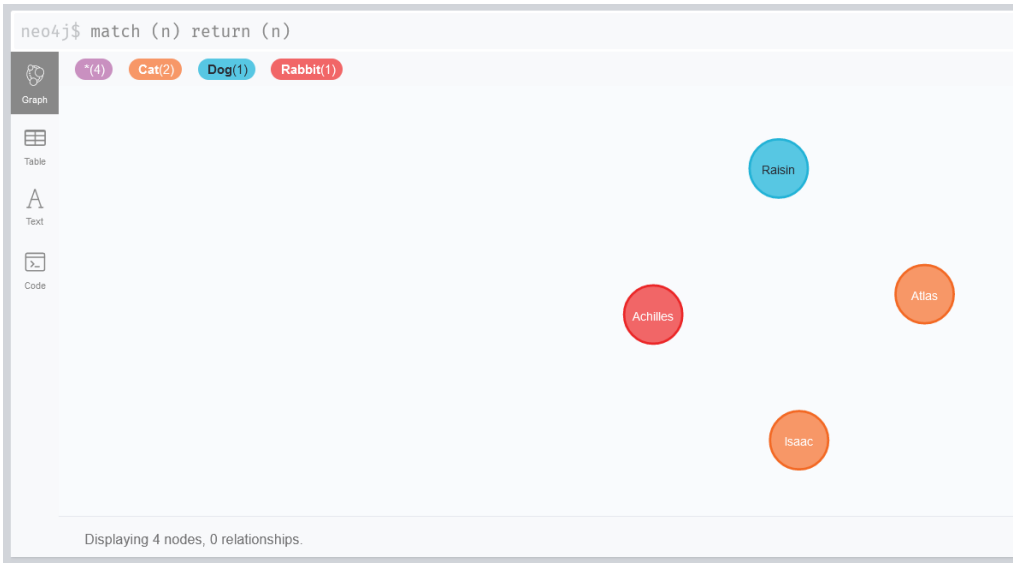


Deleting a certain relationship (command and graph after deletion):

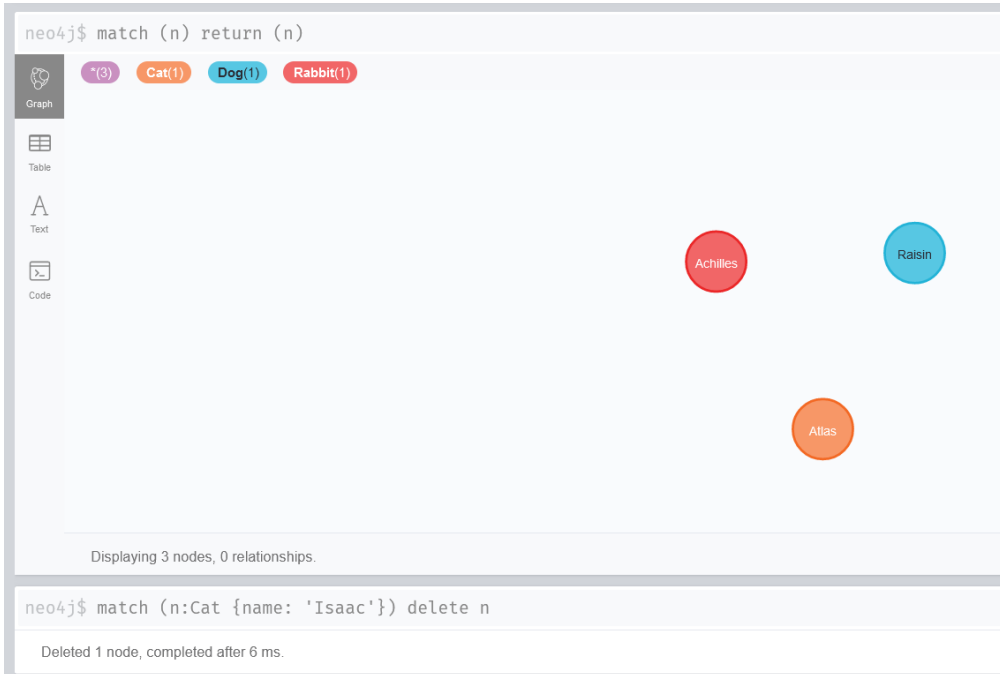


Deleting all relationships:

Deleting a specific node (graph before deletion):



Deleting a specific node (command and graph after deletion):



Deleting all nodes: