

What is Neo4j?

This is a graph based database which requires a language called cypher. These are a few simple lines in cypher in creating and accessing a very simple and limited graph database. The graph database being used is called Neo4j.

```
CREATE (tay:Person {name: "TAYLOR", job: "Programmer", sal: 40000}),  
(ben:Person {name: "BENJAMIN", job: "Dentist", sal: 70000}),  
(ali:Person {name: "ALEXIS", job: "Vet", sal: 80000}),  
(tay)-[:KNOWS]->(ben), (tay)-[:KNOWS]->(ali), (ali)-[:KNOWS]->(tay)
```

Added 3 labels, created 3 nodes, set 9 properties, created 3 relationships, statement completed in 87 ms.

Brief Description

The CREATE statement allows you to create a new node or nodes with certain properties. The opening parentheses and closing parentheses represents the node. The {} are where the properties about the node are entered. The -> tells that it is a directed connection.

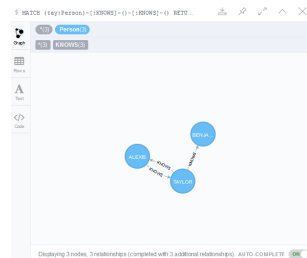
```
MATCH (tay:Person) WHERE tay.name = "TAYLOR" RETURN tay;
```



Brief Description

The MATCH keyword allows for a pattern search through the database.

```
MATCH (tay:Person)-[:KNOWS]-()-[:KNOWS]-() RETURN DISTINCT tay;
```



Brief Description

The DISTINCT added to the end makes the result return only the necessary nodes. Although in this case it is looking for all the nodes in the current database, so is irrelevant in this case.