

```
$ CREATE CONSTRAINT FOR (a:Airport) REQUIRE a.code IS UNIQU...
```

```
neo4j$ CREATE CONSTRAINT FOR (a:Airport) REQUIRE a.code IS U... ✓
```

```
neo4j$ CREATE CONSTRAINT FOR (f:Flight) REQUIRE f.id IS UNIQU... ✓
```

```
neo4j$ LOAD CSV WITH HEADERS FROM "file:///Users/meghanaava..."
```



Table

row



Text



Code

```
{
  "TaxiOut": "8",
  "WeatherDelay": "NA",
  "CRSArrTime": "2225",
  "Cancelled": "0",
  "Origin": "IAD",
  "Month": "1",
  "DayOfWeek": "4",
  "Year": "2008",
  "Diverted": "0",
  "LateAircraftDelay": "NA",
  "ArrTime": "2211",
  "AirTime": "116",
  "ArrDelay": "-14",
  "DayOfMonth": "3",
  "CRSElapsedTime": "150",
```

neo4j\$ MATCH (:Flight) RETURN count(*)

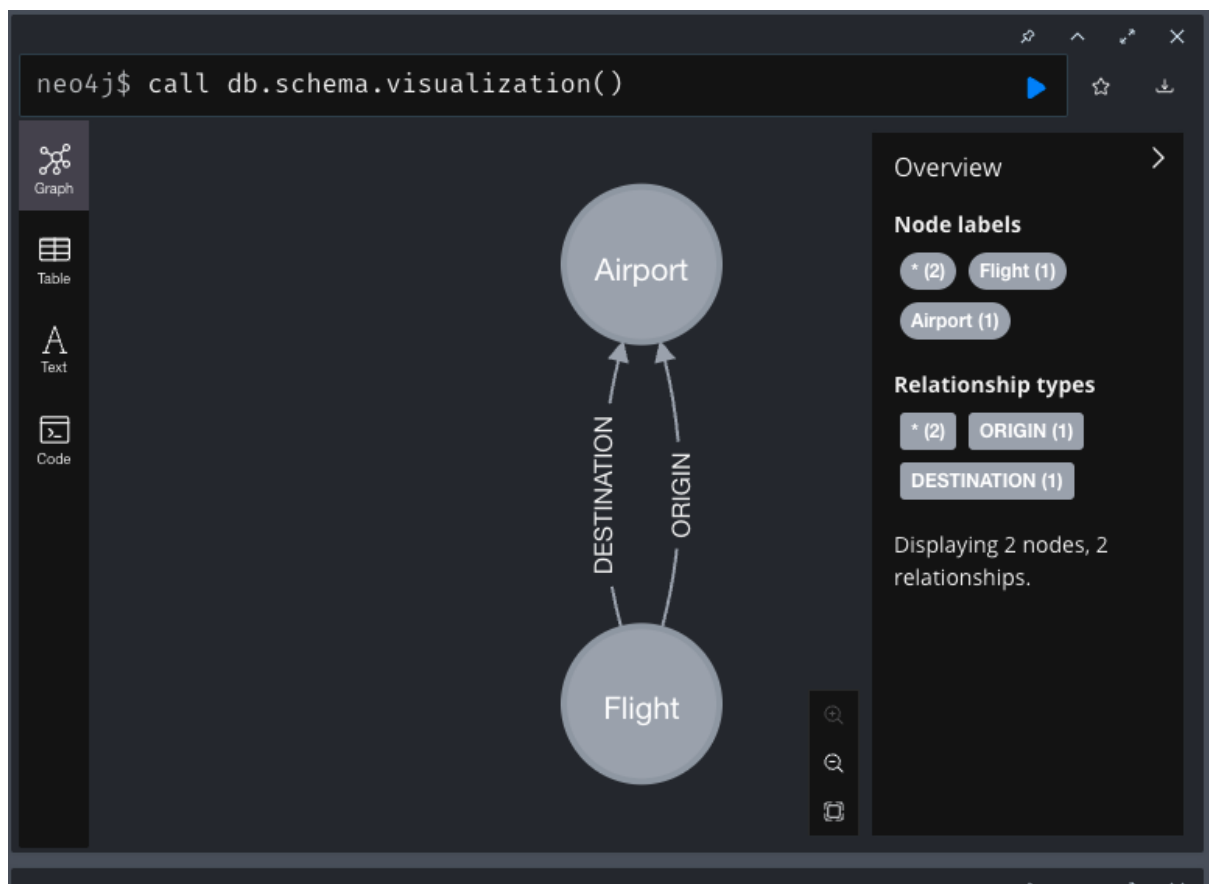
	count(*)
1	10000

Started streaming 1 records after 1 ms and completed after 2 ms.

neo4j\$ LOAD CSV WITH HEADERS FROM "file:///Users/meghanaava..."

Added 10064 labels, created 10064 nodes, set 80064 properties, created 20000 relationships, completed after 1549...

Step 4



Step 5

The image shows the Neo4j Desktop interface. At the top, a query editor contains the Cypher query: `neo4j$ MATCH (flight:Flight) WHERE flight.distance > 500 RE...`. Below the query editor is a sidebar with icons for Graph, Table, Text, and Code. The main area displays a graph visualization with numerous nodes and edges. On the right, an 'Overview' panel shows 'Node labels' with a button for 'Flight (300)'. A warning message states: '⚠ Not all return nodes are being displayed due to Initial Node Display setting. Only first 300 nodes are displayed.' At the bottom, a second query editor shows: `neo4j$ MATCH (flight:Flight) SET flight.distance = toIntege...`. Below this, a status bar indicates: 'Set 10000 properties, completed after 57 ms.'

Step 6

The image displays the Neo4j Desktop application interface. At the top, a query editor shows the Cypher query: `neo4j$ MATCH (flight:Flight) WHERE flight.cancelled RETURN ...`. Below the query editor, the main workspace is divided into three sections. On the left is a sidebar with icons for Graph, Table, Text, and Code. The center section shows a graph visualization with 163 nodes, represented as small grey dots, arranged in a circular pattern. On the right is an 'Overview' panel with the heading 'Node labels' and two buttons: '* (163)' and 'Flight (163)'. Below these buttons, it states 'Displaying 163 nodes, 0 relationships.' At the bottom of the interface, a second query editor shows the query: `neo4j$ MATCH (flight:Flight) SET flight.cancelled = CASE WH...`. Below this query editor, a status bar indicates 'Set 10000 properties, completed after 27 ms.'

Querying

Step 1

neo4j\$ PROFILE MATCH path = (origin:Airport {code: "LAS"}) ...

Graph

Table

Text

Plan

Code

▼ NodeUniqueIndexSeek@neo4j

destination

UNIQUE destination:Airport(code)

WHERE code = \$autostring_1

248 memory (bytes)

2,331 pagecache hits

0 pagecache misses

1 estimated rows

2 db hits

1 row

▼ Expand(All)@neo4j

destination, anon_1, flight

(destination)←[anon_1:DESTINATION]

-(flight)

156 estimated rows

664 db hits

661 rows

▼ Filter@neo4j

destination, anon_1, flight

flight.date = \$autostring_2 AND

flight:Flight

8 estimated rows

Cypher version: , planner: COST, runtime: PIPELINED. 3242 total db hits in 120 ms.

Step 2

neo4j\$ MATCH ()-[:CONNECTED_TO]→() RETURN COUNT(*)

Table

Text

Code

COUNT(*)

15247

Started streaming 1 records after 2 ms and completed after 3 ms.

neo4j\$:auto LOAD CSV WITH HEADERS FROM "file:///Users/megh..."

Table

Code

Created 10494 nodes, set 26235 properties, created 5247 relationships, completed after 18947 ms.

Step 3

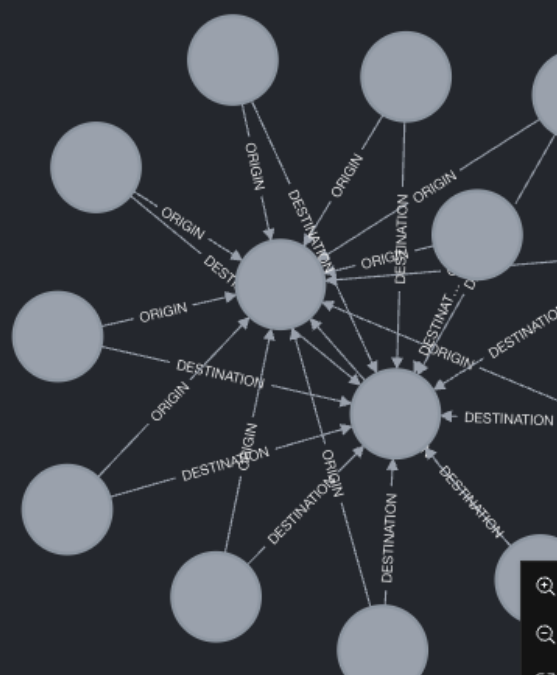
neo4j\$ MATCH path = (origin:Airport {code: "LAS"})←[:ORIGI...

Graph

Table

Text

Code



Overview

Node labels

* (14) Airport (2) Flight (12)

Relationship types

* (24) ORIGIN (12) DESTINATION (12)

Displaying 14 nodes, 24 relationships.