Cypher Shell Neo4j graph CLI

CONCEPTS

Statements typed in the shell must end with a semicolon; lines starting with : are shell commands and need none.

cypher-shell your terminal
↓ Bolt
Neo4j server port 7687
↓ routes to
Database neo4j / system
↓ holds
Graph nodes + relationships

Patterns are drawn in ASCII art: (node)-[:REL]→(node). Labels start with a colon, properties go in braces.

CONNECT

cypher-shell -u *<user>* **-p** *<password>*
Connect to localhost

cypher-shell -a *<uri>*
Connect to another server

cypher-shell -d *<database>*
Start in a given database

SHELL COMMANDS

:help
List shell commands

:exit
Quit the shell

:use *<database>*
Set the active database

:begin
Open an explicit transaction

:commit
Commit the open transaction

SCRIPT & OUTPUT

cypher-shell "*<cypher>***"**
Run one statement and exit

SCRIPT & OUTPUT (cont.)

cypher-shell -f *<file>*
Run a Cypher file and exit

cypher-shell --format plain
Minimal output for scripts

READ

MATCH (n) RETURN n LIMIT *<k>*
Sample some nodes

MATCH (n:*<Label>***) RETURN n**
Nodes with a label

MATCH (n:*<Label>* **{***<prop>***:** *<value>***}) RETURN n**
Match by property

MATCH (a)-[r:*<TYPE>***]→(b) RETURN a, r, b**
Follow a relationship type

WHERE n.*<prop>* **>** *<value>*
Filter matches

ORDER BY n.*<prop>* **DESC**
Sort the rows

WRITE

CREATE (:*<Label>* **{***<prop>***:** *<value>***})**
Create a node

MERGE (n:*<Label>* **{***<prop>***:** *<value>***})**
Create only if missing

SET n.*<prop>* **=** *<value>*
Set a property

DETACH DELETE n
Delete a node and its relationships

PIPELINES

WITH n, count(*) AS c
Pass results to the next part

SCHEMA & ADMIN

SHOW DATABASES
List databases