CYPHer COMMANDS

#Delete all nodes

MATCH (n)

DETACH DELETE n;

Load the data from the .csv file, using “|” as a delimiter and with headers. Since the headers match the property names, we refrain from using them.

LOAD CSV WITH HEADERS FROM 'file:///neo4j\_papers.csv' AS r

FIELDTERMINATOR '|'

CREATE (p:Papers)

SET p = r;

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

CREATE (p:Paper {

    paperID: row.paperID,

    title: row.title,

    year: toInteger(row.year),

    abstract: row.abstract,

    pages: row.pages,

    doi: row.doi

});

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

WITH row, split(row.authorIDs, ';') AS authorIDs, split(row.authorNames, ';') AS authorNames

UNWIND range(0, size(authorIDs) - 1) AS i

MERGE (a:Author {authorID: authorIDs[i], name: authorNames[i]});

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

WITH row, split(row.fields, ';') AS fields

UNWIND fields AS field

MERGE (f:Field {name: field});

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

MERGE (j:Journal {name: row.journal\_name});

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

MERGE (v:PublicationVenue {id: row.publicationVenue\_id, name: row.publicationVenue\_name});

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

WITH row, split(row.authorIDs, ';') AS authorIDs

MATCH (p:Paper {paperID: row.paperID})

UNWIND authorIDs AS authorID

MATCH (a:Author {authorID: authorID})

CREATE (p)-[:WRITTEN\_BY]->(a);

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

WITH row, split(row.fields, ';') AS fields

MATCH (p:Paper {paperID: row.paperID})

UNWIND fields AS field

MATCH (f:Field {name: field})

CREATE (p)-[:IN\_FIELD]->(f);

**TO UPDATE**

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

MATCH (p:Paper {paperID: row.paperID})

MATCH (j:Journal {name: row.journal\_name})

CREATE (p)-[:PUBLISHED\_IN]->(j);

**TO UPDATE**

LOAD CSV WITH HEADERS FROM 'file:///papers.csv' AS row

FIELDTERMINATOR "|"

MATCH (p:Paper {paperID: row.paperID})

MATCH (v:PublicationVenue {id: row.publicationVenue\_id})

CREATE (p)-[:PUBLISHED\_IN\_VENUE]->(v);