Exercise #7

Submission:

Submit your exercise as a SINGLE ZIP file on Canvas by the due date. Your submitted ZIP file must have the name: Exercise_7_Your_LastName.zip

Deliverables:

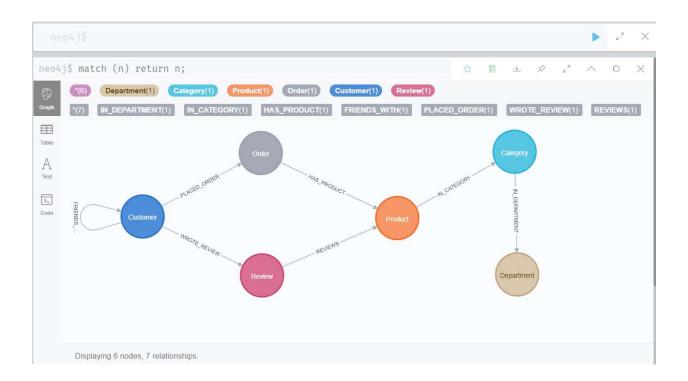
Your ZIP file for the exercise submission must include the following:

- All source code that you installed, compiled and built on your personal computer.
- Panopto video recording of a live run of your code on your personal development computer.

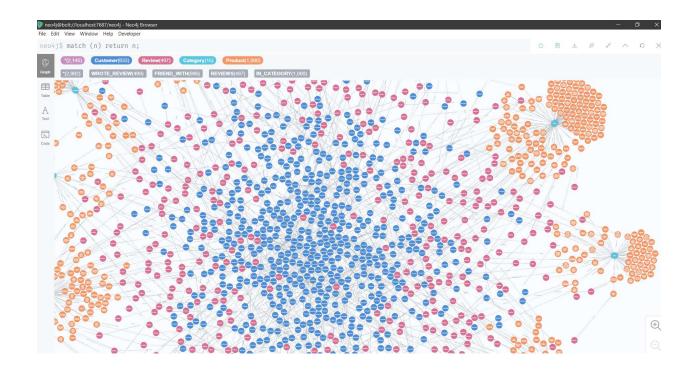
Requirements Specification:

Download, and install Neo4j 4.2.1 on your personal development computer.

After you install Neo4j on your personal development computer, you will create the following Customer-Friends-Product-Reviews Graph Database for OnMart Super Store and use the **PageRank** algorithm in order to find the **most influential reviewers** in its graph database (shown in next page) based on the following Graph Data Model:

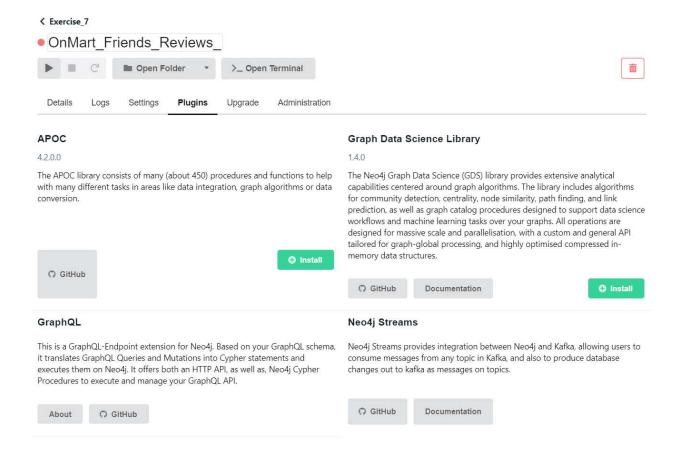


Graph Database



Create the Customer-Friends-Product-Reviews Graph Database for OnMart

- 1. Startup Neo4j
- Use Cypher to create the Customer-Friends-Product-Reviews graph database for OnMart
- 3. All Cypher code must be saved in a file with the name cypher.txt
- 4. After you create OnMart_Friends_Reviews_PageRank graph database, go to the plugin tab (see below screenshot) and install the following plugins
 - 1) APOC
 - 2) GDS Graph Data Science Library



- 5. Write and execute Cypher statements to create the customer label/nodes
- 6. Write and execute Cypher statements to create the FRIEND_WITH relationships/type
- 7. Write and execute Cypher statements to create the Review label/nodes
- 8. Write and execute Cypher statements to create the WROTE_REVIEW relationships/type
- 9. Write and execute Cypher statements to create the Product label/nodes
- 10. Write and execute Cypher statements to create the IN_CATEGORY relationships/type
- 11. Write and execute Cypher statements to create the REVIEWS relationships/type
- 12. Write and execute Cypher statements using **PageRank** to find most influential reviewers