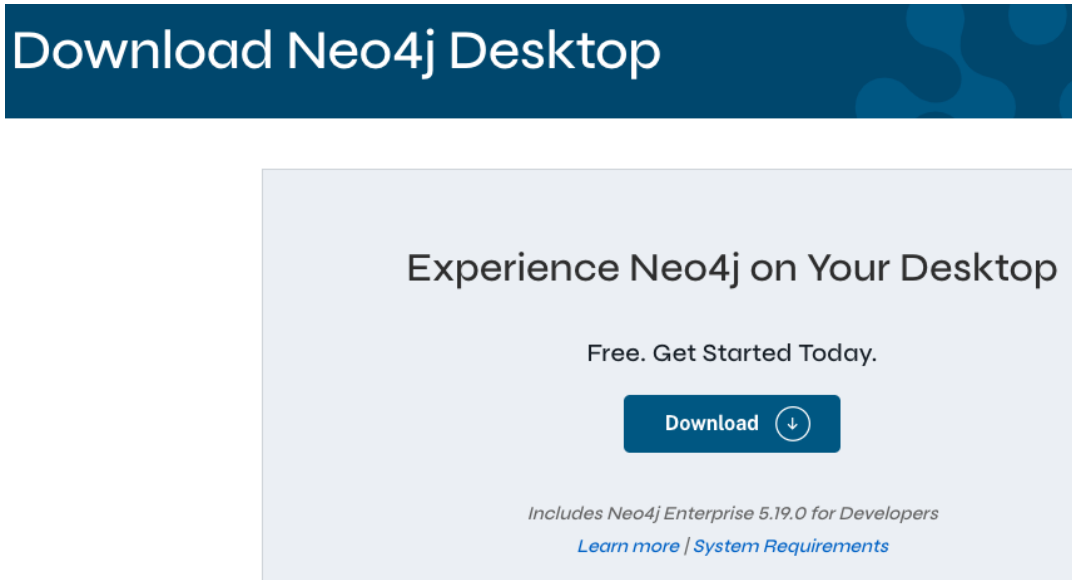


Instructions for installing Neo4j and creating an instance of the condensed KG

Part 1: Installation of Neo4j

Visit <https://neo4j.com/download>:



Click on the Download link as shown above. Complete Neo4j's form to gain access to a free version of Neo4j Desktop:

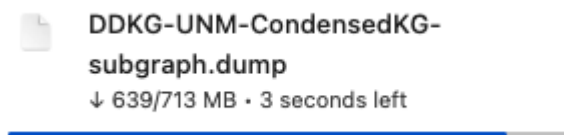
A screenshot of the Neo4j "Get Started Now" registration form. The top navigation bar includes the Neo4j logo and links for Products, Use Cases, Developers & Data Scientists, Learn, and Pricing. A dark blue banner reads "Get Neo4j Desktop". Below this, the heading "Get Started Now" is followed by the instruction "Please fill out this form to begin your download". The form itself is a light blue box containing several input fields: First Name, Last Name, Email (Business Preferred), Company Name, Job Title, Job Function (a dropdown menu), Phone Number, and Country/Territory (a dropdown menu). A blue button labeled "Download Desktop" is at the bottom of the form.

After successfully downloading the current version of Neo4j from <https://neo4j.com>, open the downloaded installation file and follow the installation guide. Neo4j Desktop is compatible with modern versions of MacOS, Windows, SuSE Enterprise Desktop, Ubuntu, and Debian.

Part 2: Downloading the Condensed KG dumpfile

The dumpfile for the resulting condensed KG is available for download here:
<https://unmtid-dbs.net/download/cfde/DDKG-UNM-CondensedKG-subgraph.dump>

To monitor the progress of the dumpfile download, navigate to your web browser's Downloads directory:

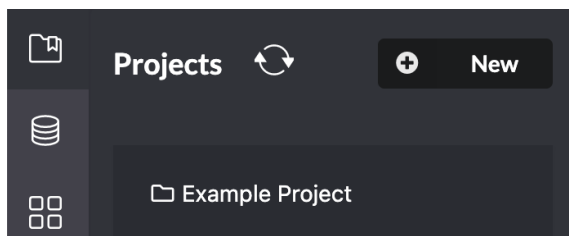


The total filesize of the condensed KG dumpfile is **713 MB**. When the download is complete, ensure the downloaded file has appropriate permissions to support interaction with both your operating system and neo4j.

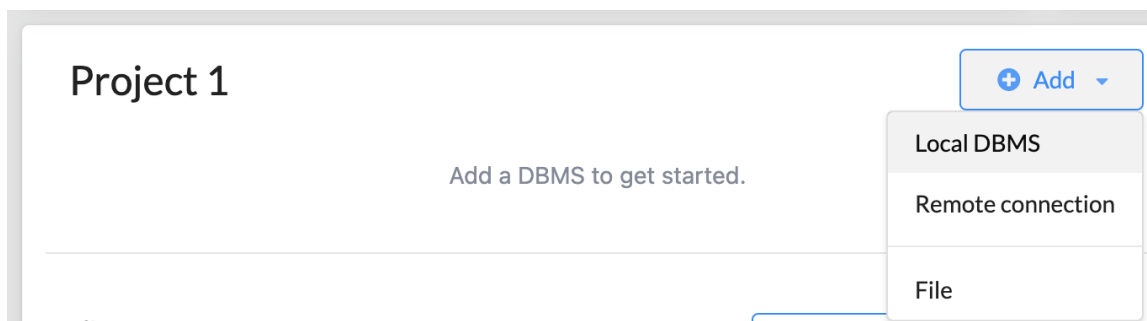
Part 3: Loading the condensed KG in Neo4j

Now that we have installed Neo4j and downloaded the condensed KG dumpfile, the next step is to load the dumpfile in Neo4j.

Open Neo4j and click "+ New" in the upper left corner to initiate a new Project (in this example named "Project 1"):



Next, click on the "+ Add" dropdown and select Local DBMS:

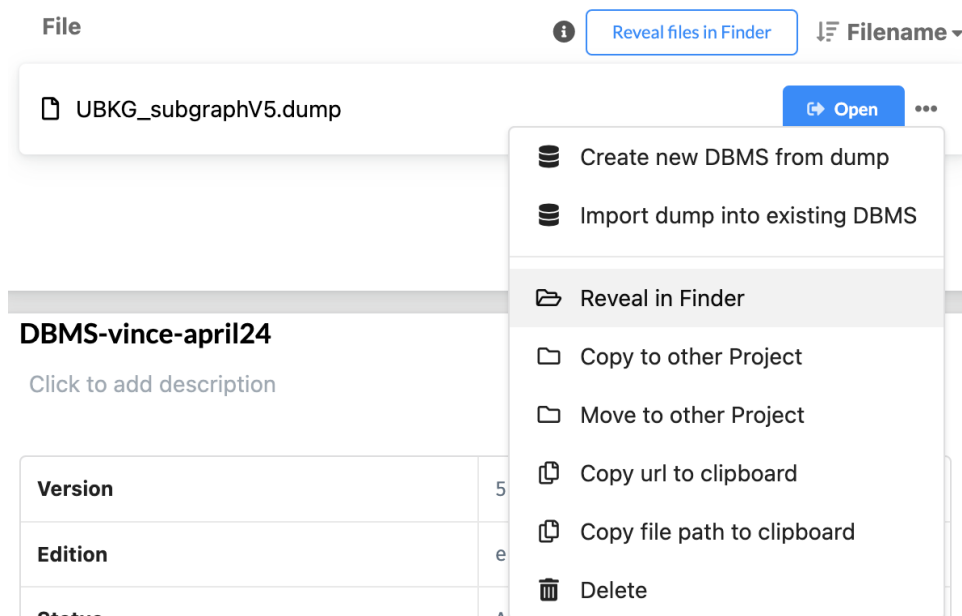


After clicking on Local DBMS, specify a Name, a Password, and a Neo4j Version as shown below:

The screenshot shows the 'Project 1' configuration form in the Neo4j UI. It includes three main input fields: 'Name' with the value 'DBMS-vince-april24', 'Password' with masked characters, and 'Version' with a dropdown menu set to '5.16.0 (latest)'. At the top right is a '+ Add' button. At the bottom right are 'Cancel' and 'Create' buttons.

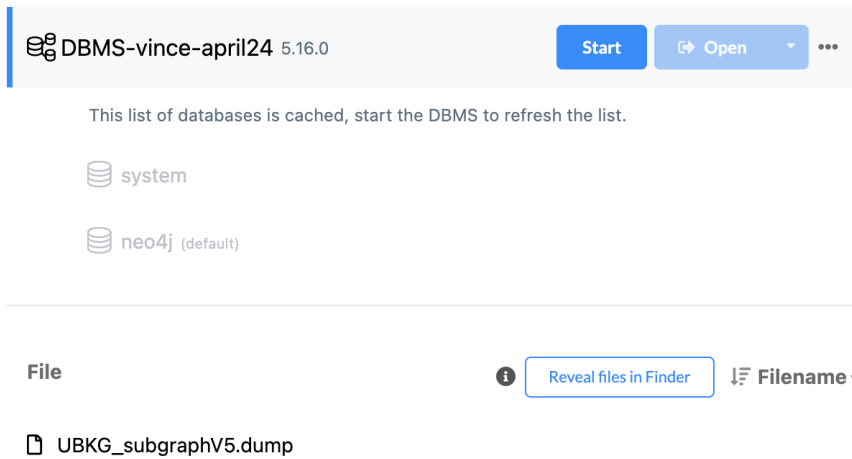
In this example, we selected a unique database instance name “DBMS-vince-april24.” A password is required so make sure this field is populated. Finally, ensure that **version 5.16** of Neo4j is selected from the dropdown of all supported versions. Click on the blue “Create” button.

Within the Neo4j UI, click on “Reveal in file manager” and copy the dump file to this location if it is not already there:

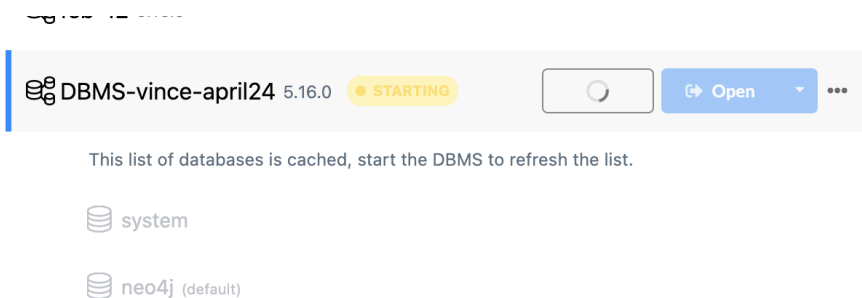


Next, click the blue “start” button to launch an instance of the desired DBMS

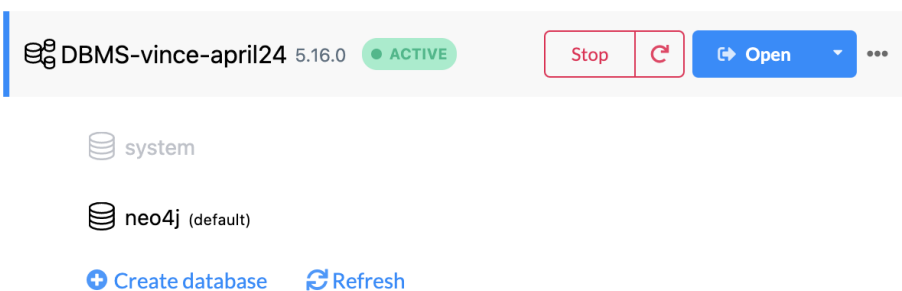
ISBDS-CFDE Training Course, 2024
Offered by the UNM SoM DoIM Translational Informatics Division



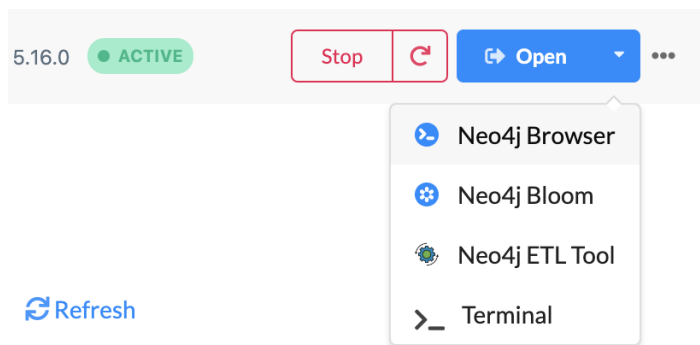
Upon clicking Start, Neo4j will begin loading the KG from the dumpfile. During this process, a yellow progress notification is displayed:



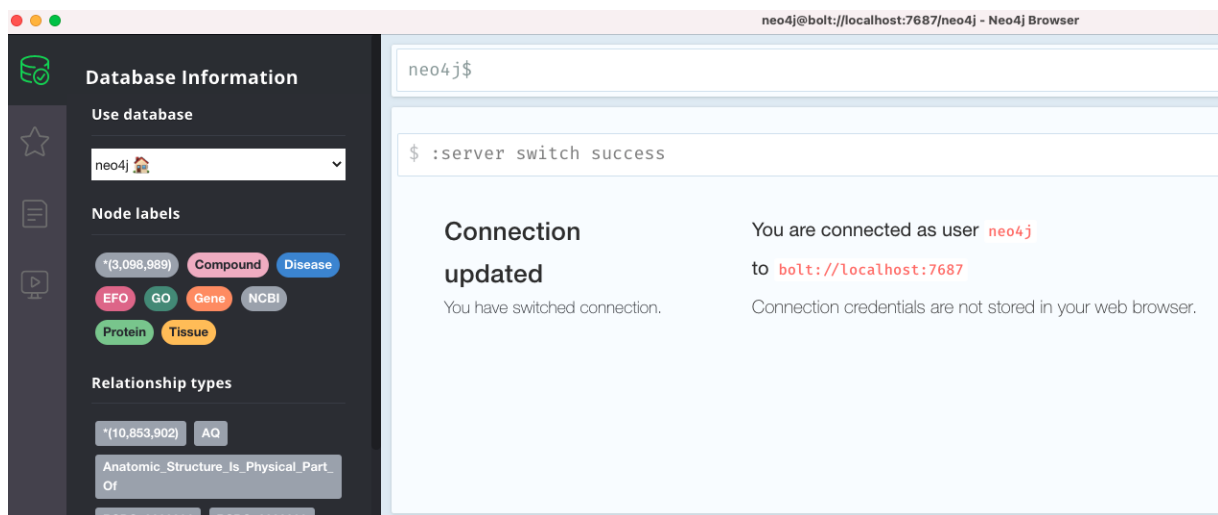
When complete, the database instance is shown in green as being “Active” as shown below:



To launch Neo4j Desktop, expand the blue “Open” tab, revealing several options including Neo4j Browser. Select Neo4j Browser from this drop-down:



Neo4j Browser will open in a new window. On the left is a list of the node types (color coded) and a list of relationship types. In the middle is a cypher terminal where cypher queries can be run on the condensed knowledge graph:



Within Neo4j browser, you can try a simple cypher query. Results default to “Graph” view (left of query area) but other options include Table, Text, or Code results:

