Bases de Données spécialisées - TP 2
Master 2 Informatique et Maths/Info 2023-2024
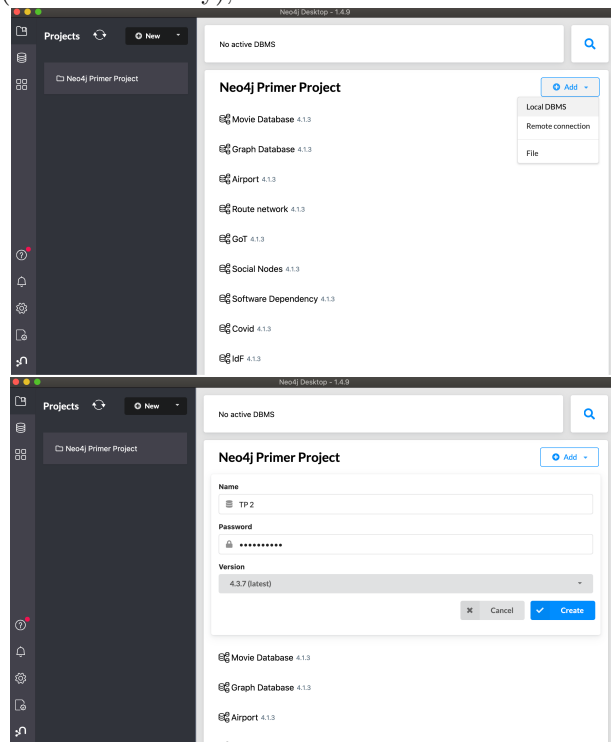

Neo4J and Cypher queries

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1 Getting started with Neo4J Desktop
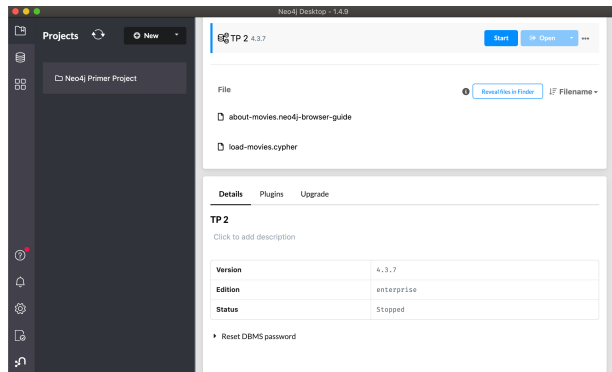
1.1 Create your database

The desktop version is the common way to install Neo4j. Download it from `https://neo4j.com/download/` and install it on your machine.
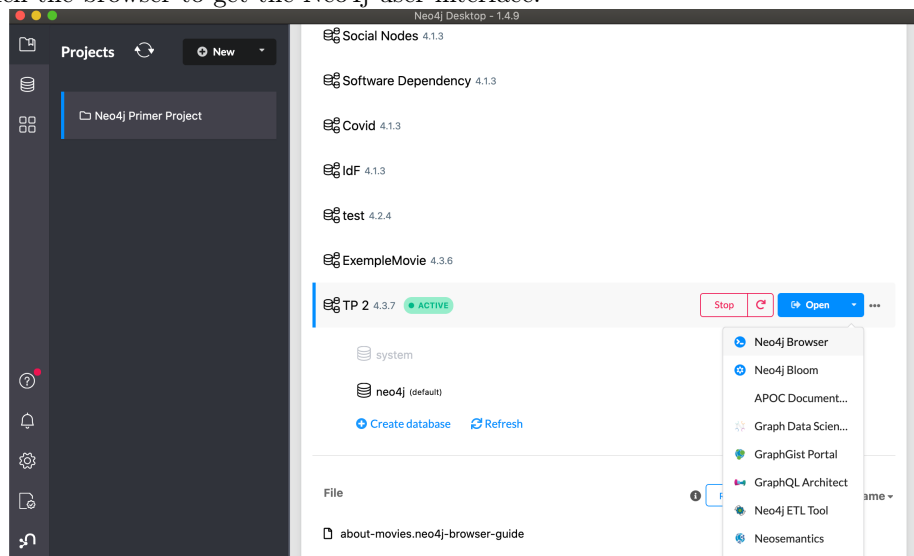
To create your database you need to :
— Launch Neo4j desktop,
— Create a new project or select an existing project,
— **Add** a new database in the project : give it a name, type your favorite password and select the latest version (5.14.0 as of today),
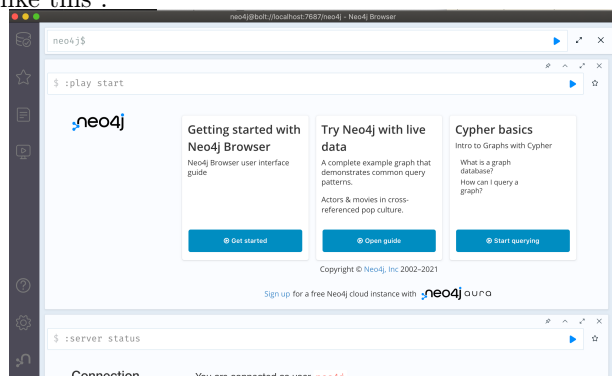

— **Start** the database (if necessary, click on "fix the problems" to change the listening ports),

— Launch the browser to get the Neo4j user interface.

It should look like this :

2   First manipulations with Cypher

Open the Neo4J Browser on an empty database, then type :

```
:guide cypher
```

Follow the instructions to get familiarised with Cypher

3   First Cypher queries : the movie database

Open the Neo4J Browser on an empty database, then type :

```
:guide movie-graph
```

Follow the instructions to install the example movie database and to play with it.

4   Exercice : Write your own queries

Open the Neo4J Browser on the movie database that you just installed then type :

```
:play https://guides.neo4j.com/4.0-intro-neo4j-exercises/
```

Follow the instructions. For the moment only do exercices 1-4, 9-11. Write the queries yourself before pushing the "Next" button to get the solutions.

When asked to show the database schema you can use the commands CALL db.schema.visualization() to view the database labels and their connections, and CALL db.propertyKeys() to view the list of properies used in the database.