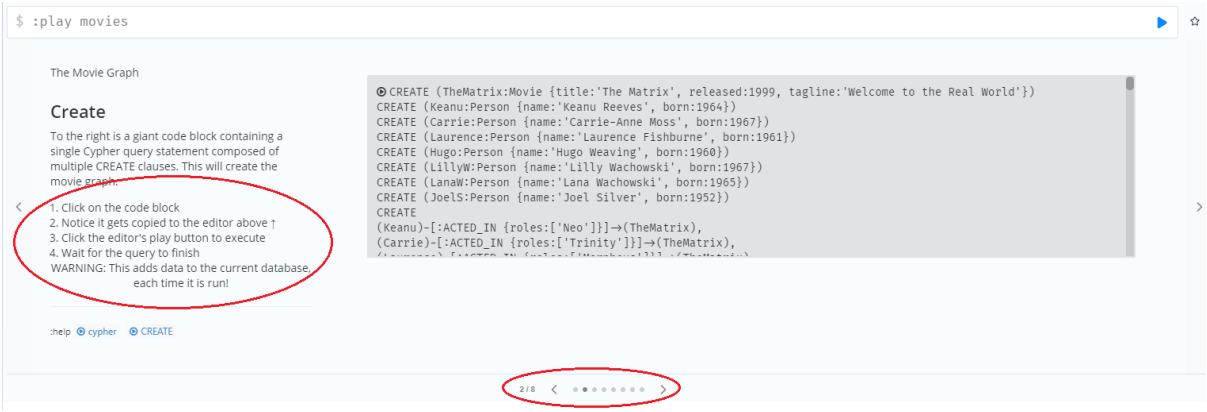
Applied Databases

Topic 10 Exercise Sheet

Update neo4j.conf with a new database name and type the following command:

```
tdb$ :play movies
```

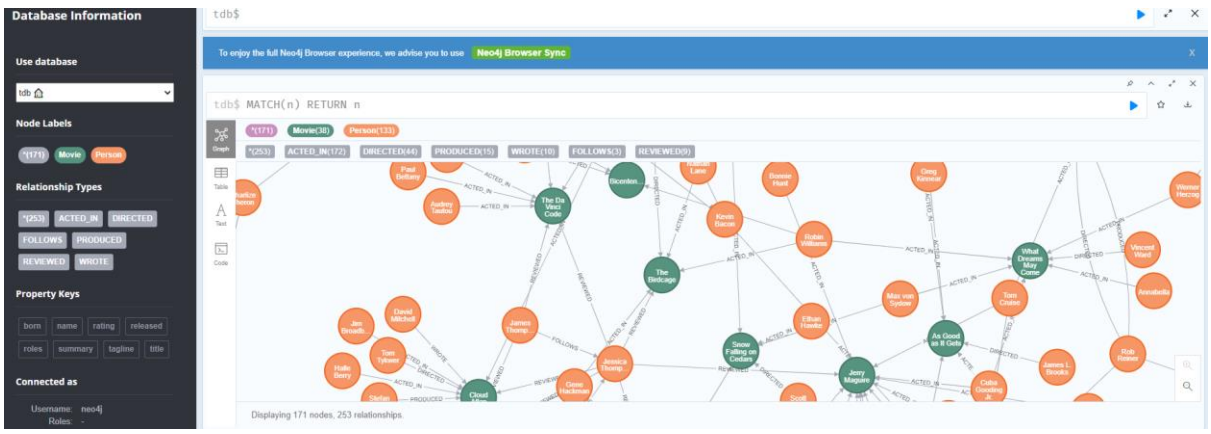
This will return the following:



Go to page 2 and follow steps 1 to 4.

A series of 171 nodes (representing Movies and People) and 253 relationships (such as ACTED_IN, DIRECTED etc.) between the nodes should now be created.

Type MATCH(n) RETURN n to see all nodes and relationships:



1. Write a Python programme that asks for 2 people's names from the command line. Then returns the *movie*, *released* and first 20 characters of the *tagline* properties of all movies both people have in common.
   e.g.1: Both *Tom Cruise* and *Jack Nicholson* both ACTED_IN "*A Few Good Men"*.
   e.g.2: *Tom Hanks* ACTED_IN "*The Da Vinci Code*" and "*Apollo 13*", while *Ron Howard* DIRECTED both those movies.

2. Add the following constraint to make the *title* property of *Movie* nodes unique:
   ```
   CREATE CONSTRAINT title_unique ON (m:Movie) ASSERT m.title IS UNIQUE
   ```

   Write a Python that allows a user to enter a Movie *title*, *released* (year movie was released, and *tagline* (short description of the movie).
   The movie details should then be added to the movie database.
   If a movie exists with the same title in the database the user should be informed of this, otherwise the user should be informed the movie has been successfully added.