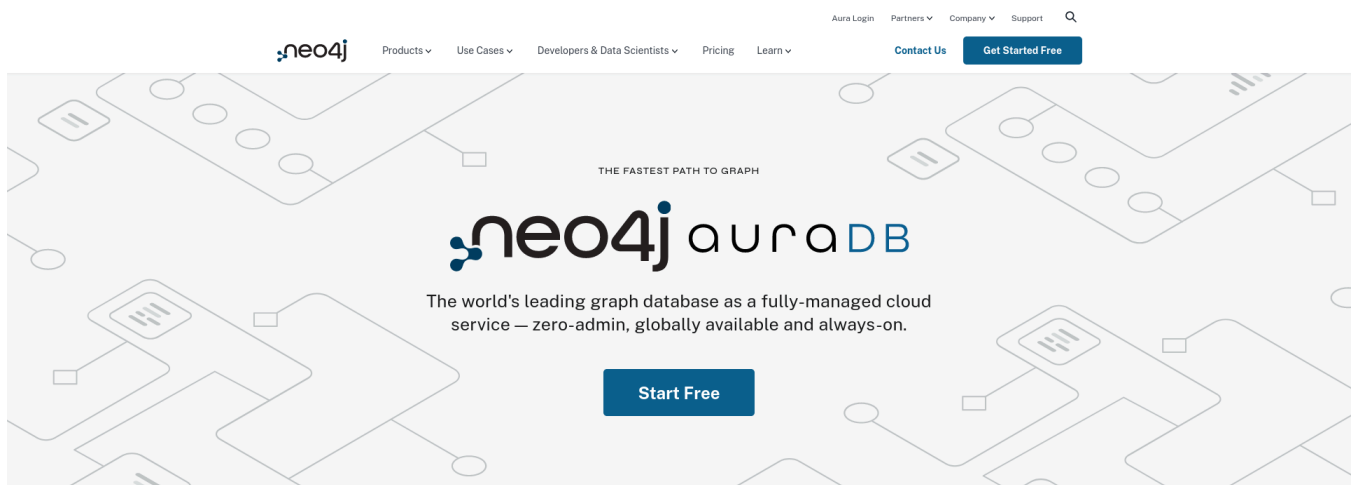


CIS 5500: Database and Information Systems

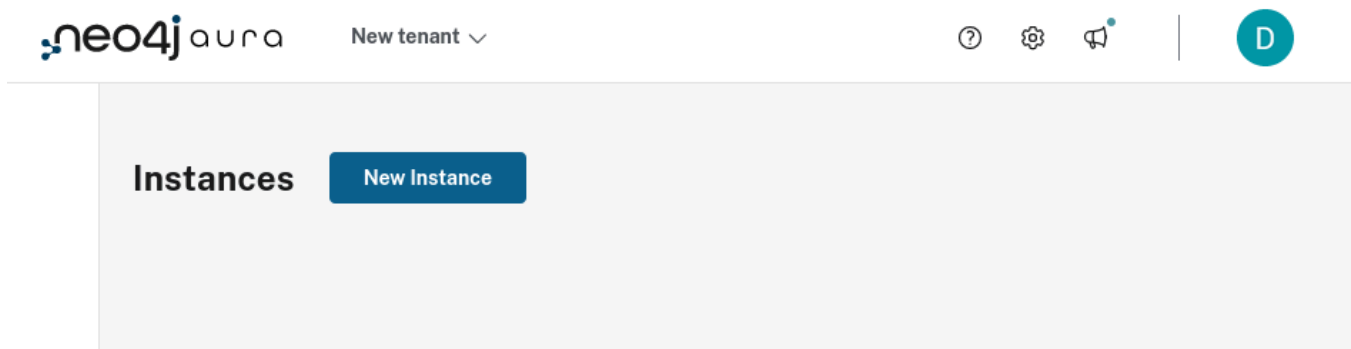
Neo4j Aura Handout

1. Creating an Instance

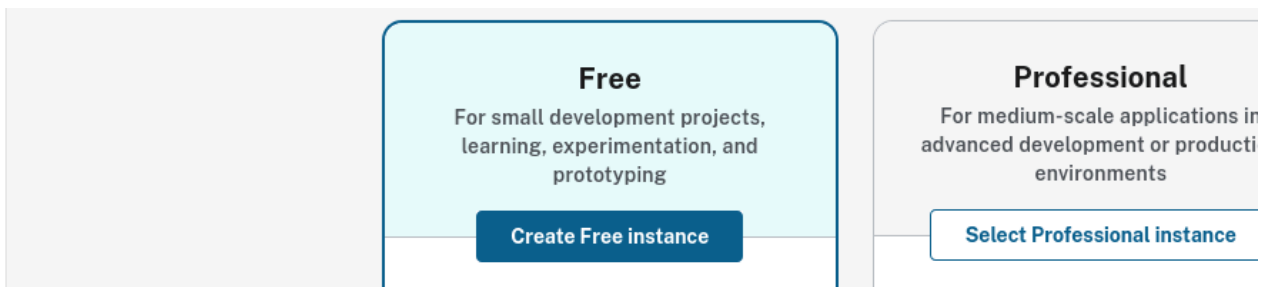
1. Head over to the official [Neo4j Aura site](#) and create an account (click on Start Free).



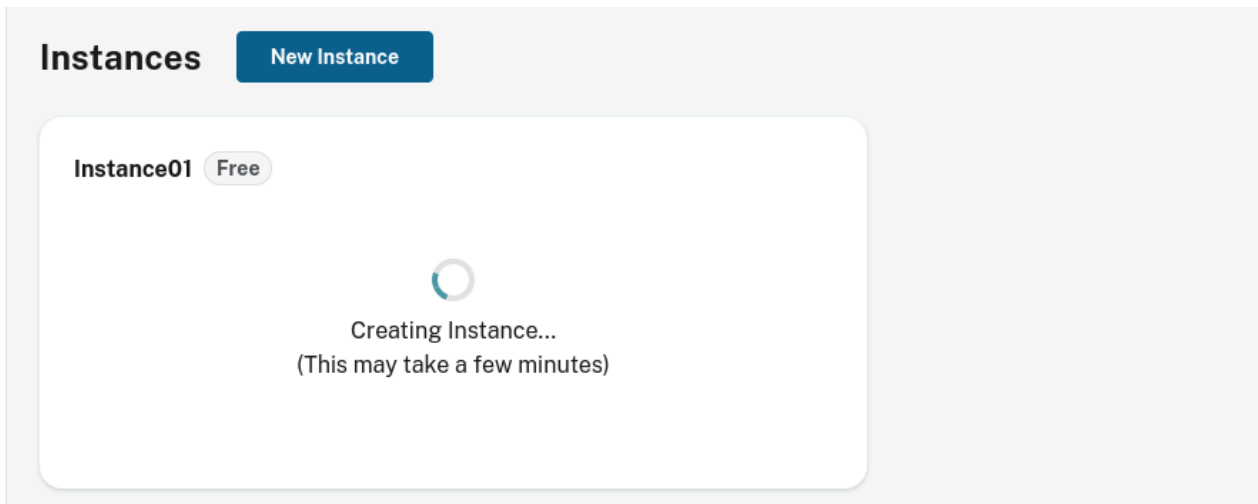
2. Click on “New Instance”



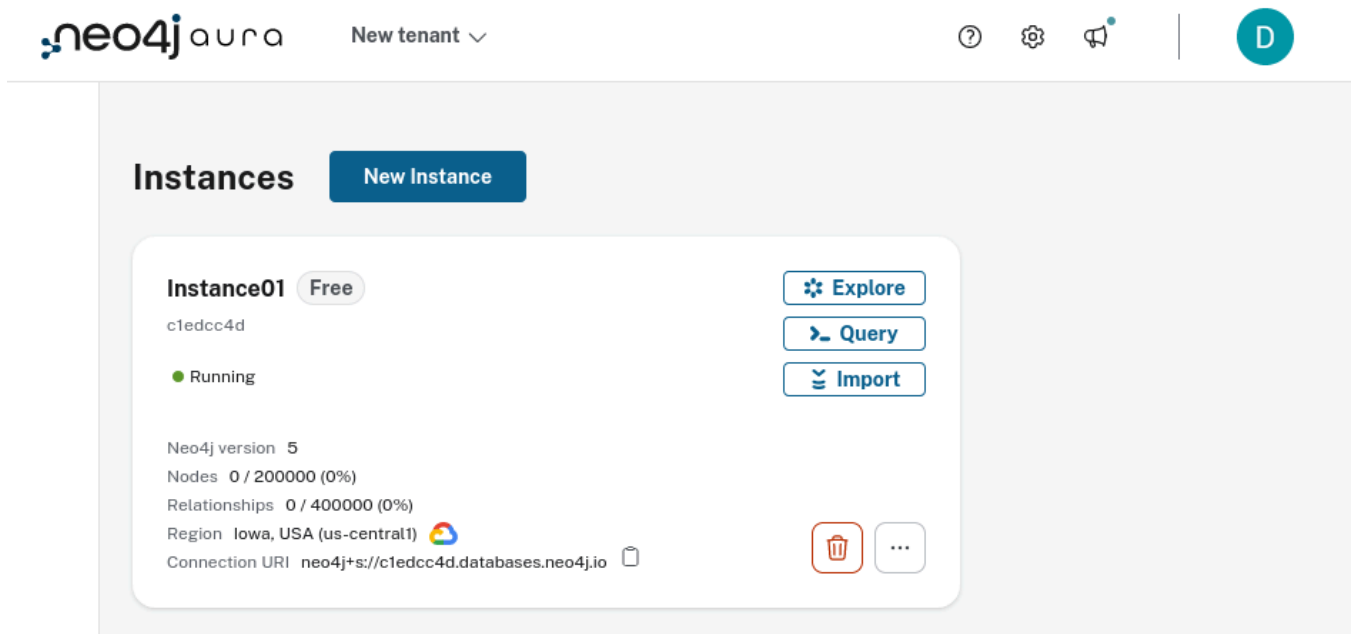
3. Select “Create Free Instance”. Make sure to save the password that is given after creation. You’ll need this for entering your credentials in part 3.




4. A new instance is being set up.



5. After a few minutes, the instance will start







6. Click on the instance to see the instance options.


 New tenant ▾ ? ⚙️ 🔊 D

[< Back to Instances](#)

Instance01

● Running   [⚙️ Explore](#) [➤ Query](#) [≡ Import](#)

Instance ID **c1edcc4d**  Neo4j version **5** Region **Iowa, USA (us-central1)**  Nodes **0 / 200000 (0%)**

Relationships **0 / 400000 (0%)** Connection URI **neo4j+s://c1edcc4d.databases.neo4j.io** 

[Snapshots](#) [Import Database](#) [Logs](#)

Take a snapshot of your data at any point to download.
The last snapshot you take will be listed and available here.

No snapshots available.

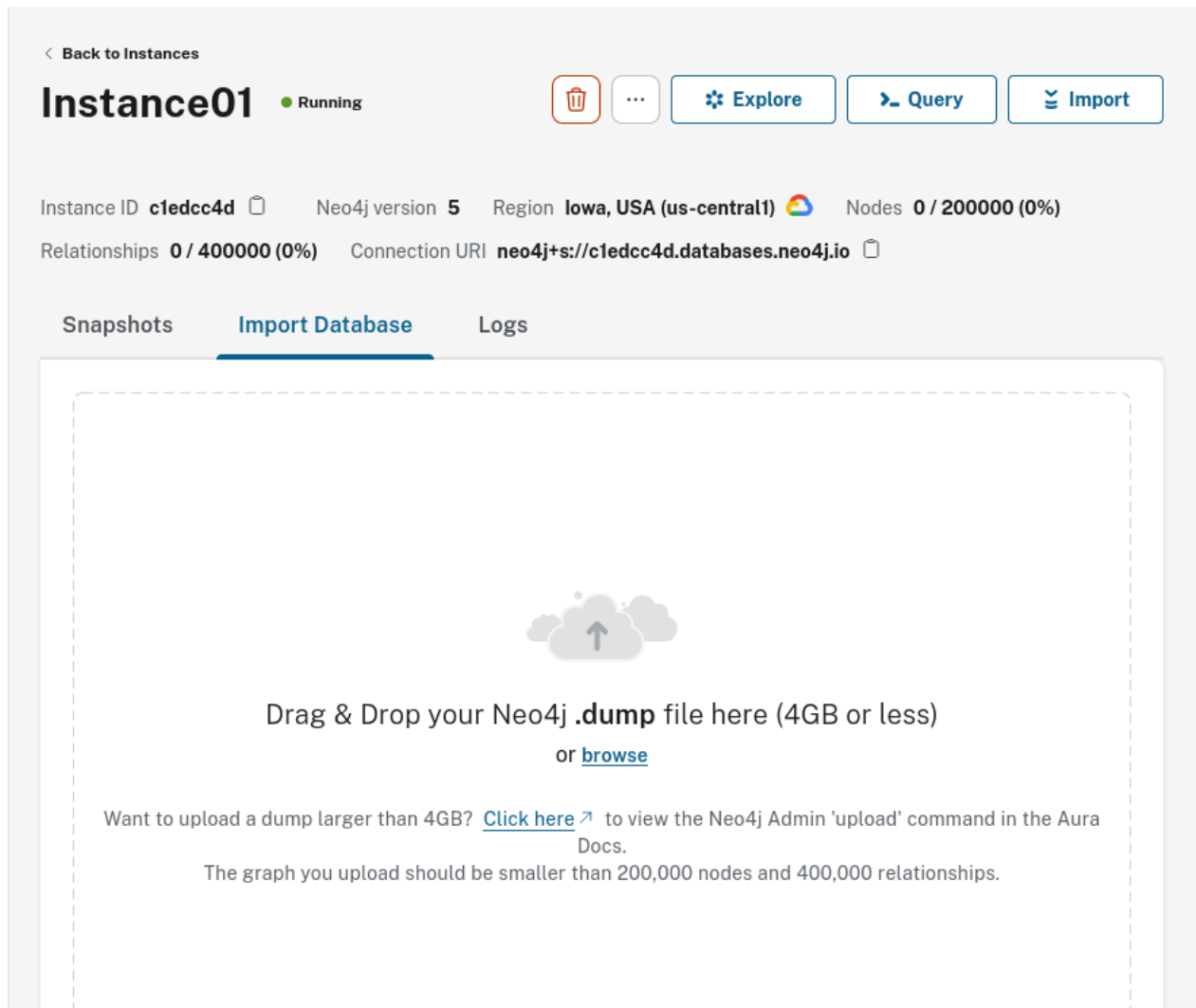
[Take snapshot](#)

2. Data Loading

2.1. Method 1-Dump File

While this is the more straight-forward method, we recommend you still take a look at the [flights.cyp](#) file that is used in method 2 to get an idea of the queries that are occurring to create the relations.

7. Click on the “Import Database” tab and drag in the “flights.dump” file into space and choose the “upload” option.



8. You should see a confirmation and on the instance page, the database should enter a loading state. Wait for the loading to complete and proceed to part 2.3.

The top screenshot shows the Neo4j instance page for 'Instance01' in a 'Running' state. The instance ID is 'c1edcc4d', Neo4j version is '5', and the region is 'Iowa, USA (us-central1)'. The instance has 0 nodes and 0 relationships. The 'Import Database' tab is selected, and a green message box states: 'Upload complete! Your database will go in to a 'loading' state as the dump is being applied.'

The bottom screenshot shows the same instance page, but the status has changed to 'Loading'. The instance ID is now '8ad0ceae', and the node and relationship counts remain at 0.

2.2. Method 2-Manually Running CREATE Queries

9. Connect to the instance (see instructions in part 3)
10. Open “flights.cyp” and run the CREATE queries in the query console. Neo4j has rate-limiting issues that prevent you from running all of the queries at once so please run them chunk by chunk. The chunks are separated with newlines in the file for your convenience.

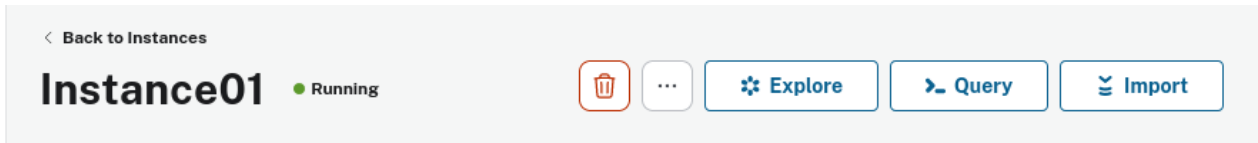
2.3. Check Import Success

11. The instance should have 105 nodes and 180 relationships after importing all data.

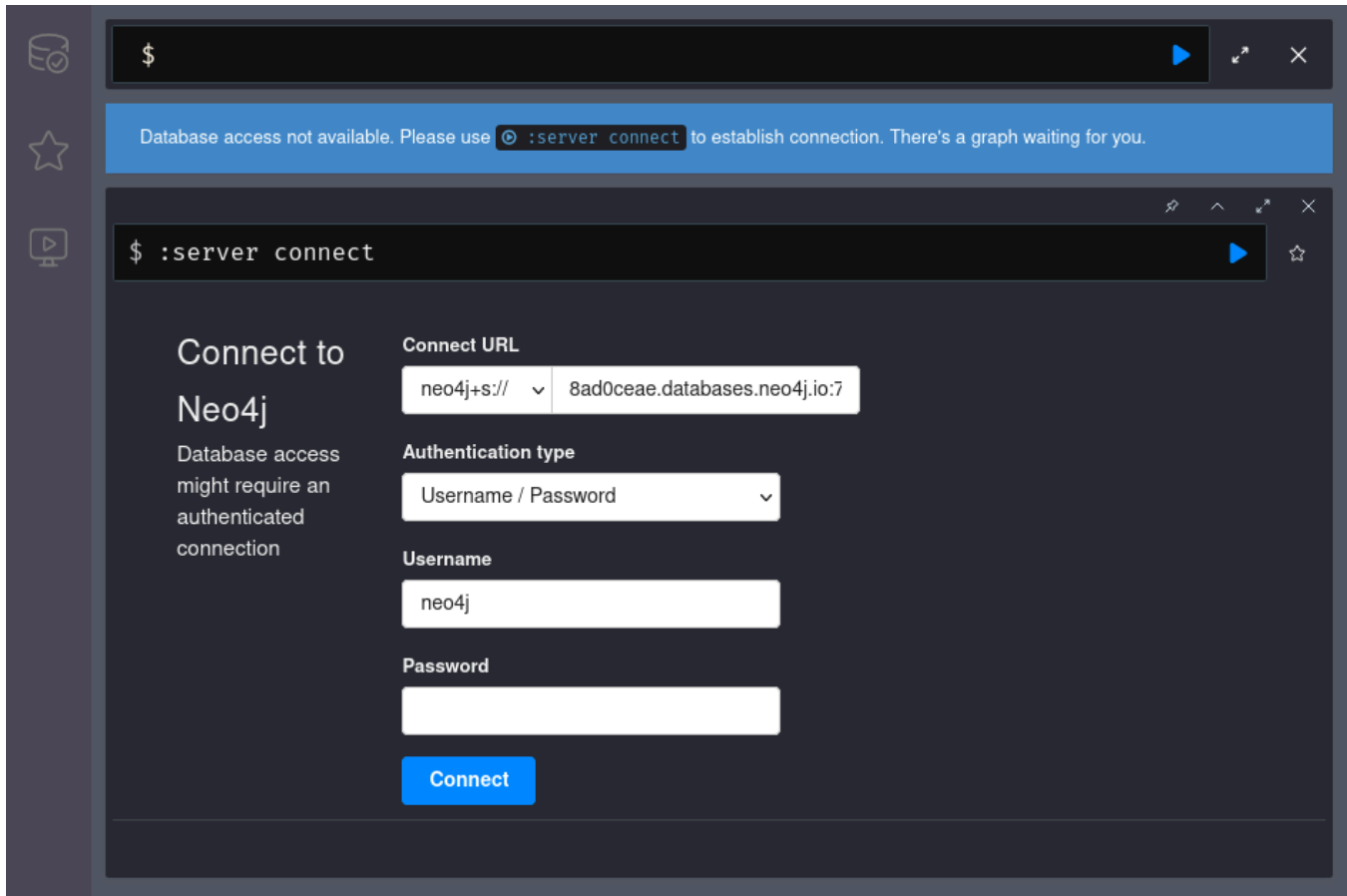
The screenshot shows the Neo4j instance page for 'Instance01' with the instance ID '8ad0ceae'. The instance is now in a 'Running' state and has successfully imported data, showing 105 nodes and 180 relationships. The instance ID is '8ad0ceae', Neo4j version is '5', and the region is 'Iowa, USA (us-central1)'. The connection URI is 'neo4j+s://8ad0ceae.databases.neo4j.io'.

3. Connecting to the Database

12. Once the instance status is “Running,” in the instance page press “Query” in the top right corner.



13. Fill in the database details and credentials and then connect to the database.



14. The console will now show up and you should be able to execute queries here.