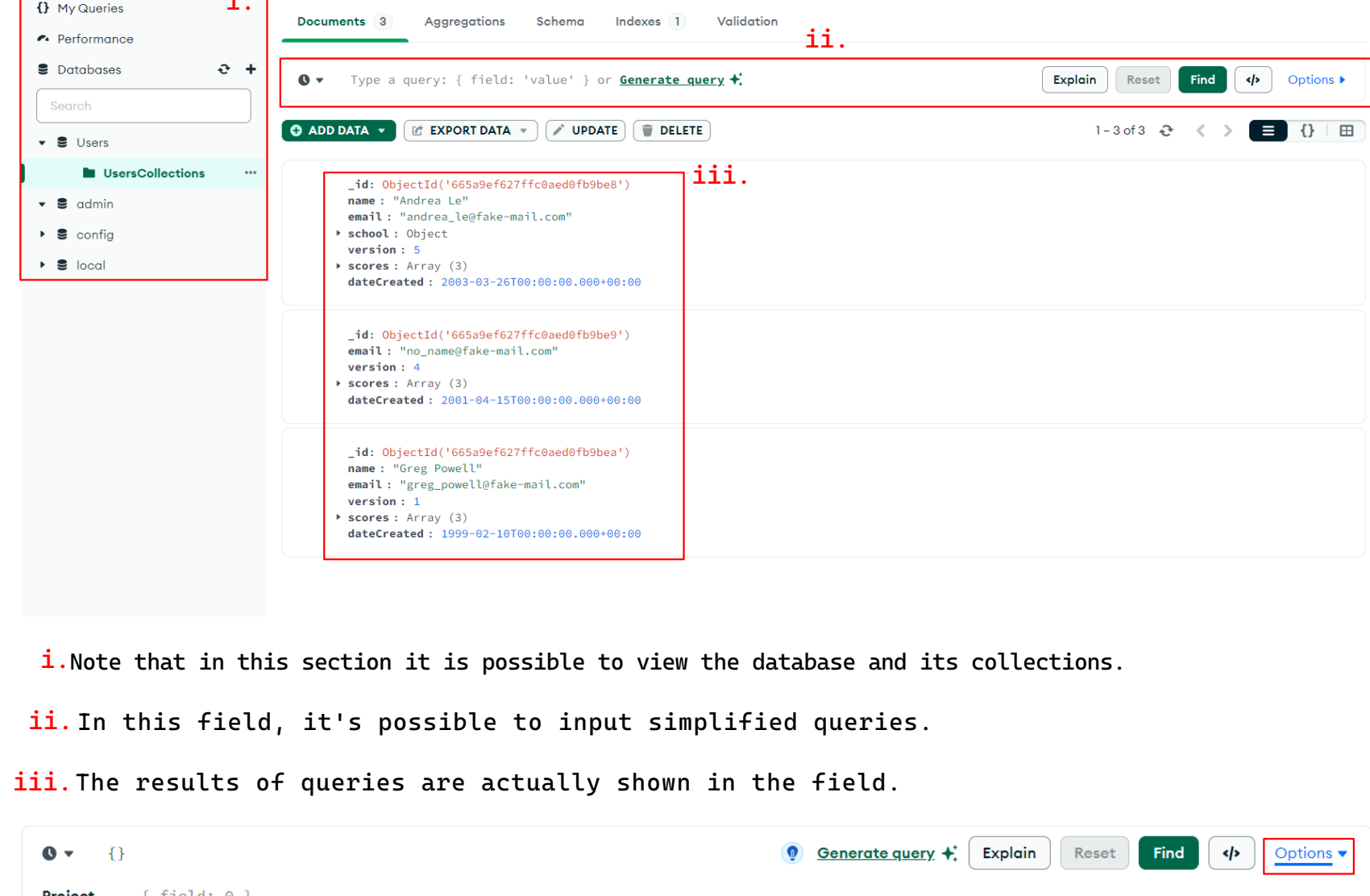


Mongo DB NoSQL

Task 1: Mongo DB GUI – Compass

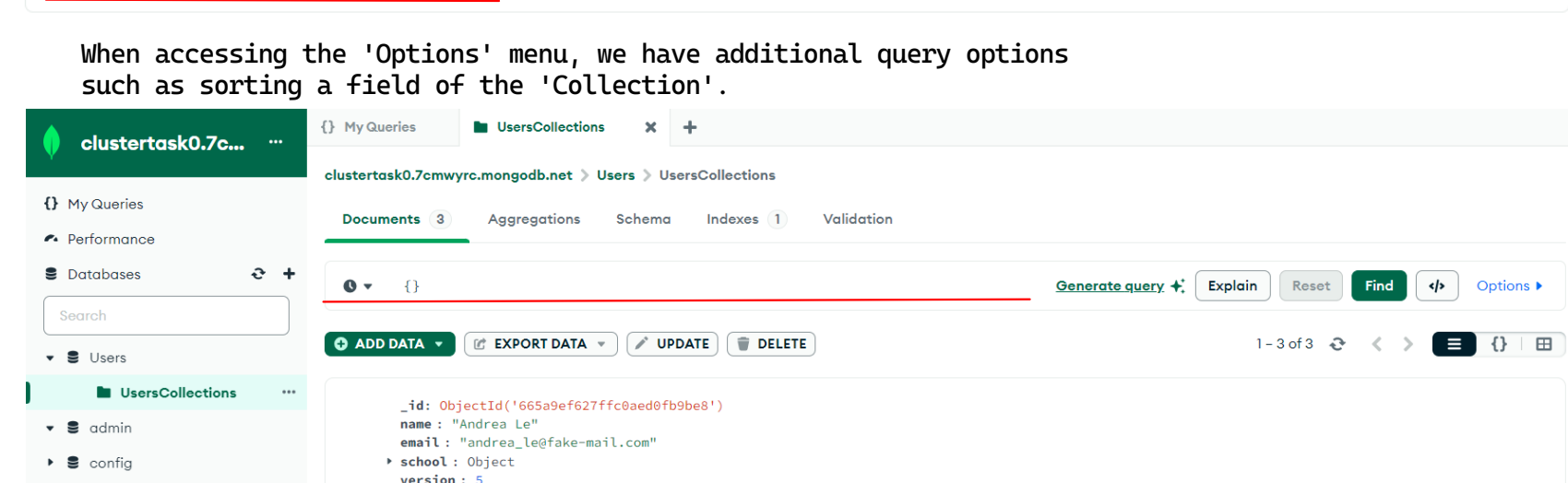
MongoDB Compass is a powerful Graphical User Interface for database operations such as queries, data visualization, and analysis.



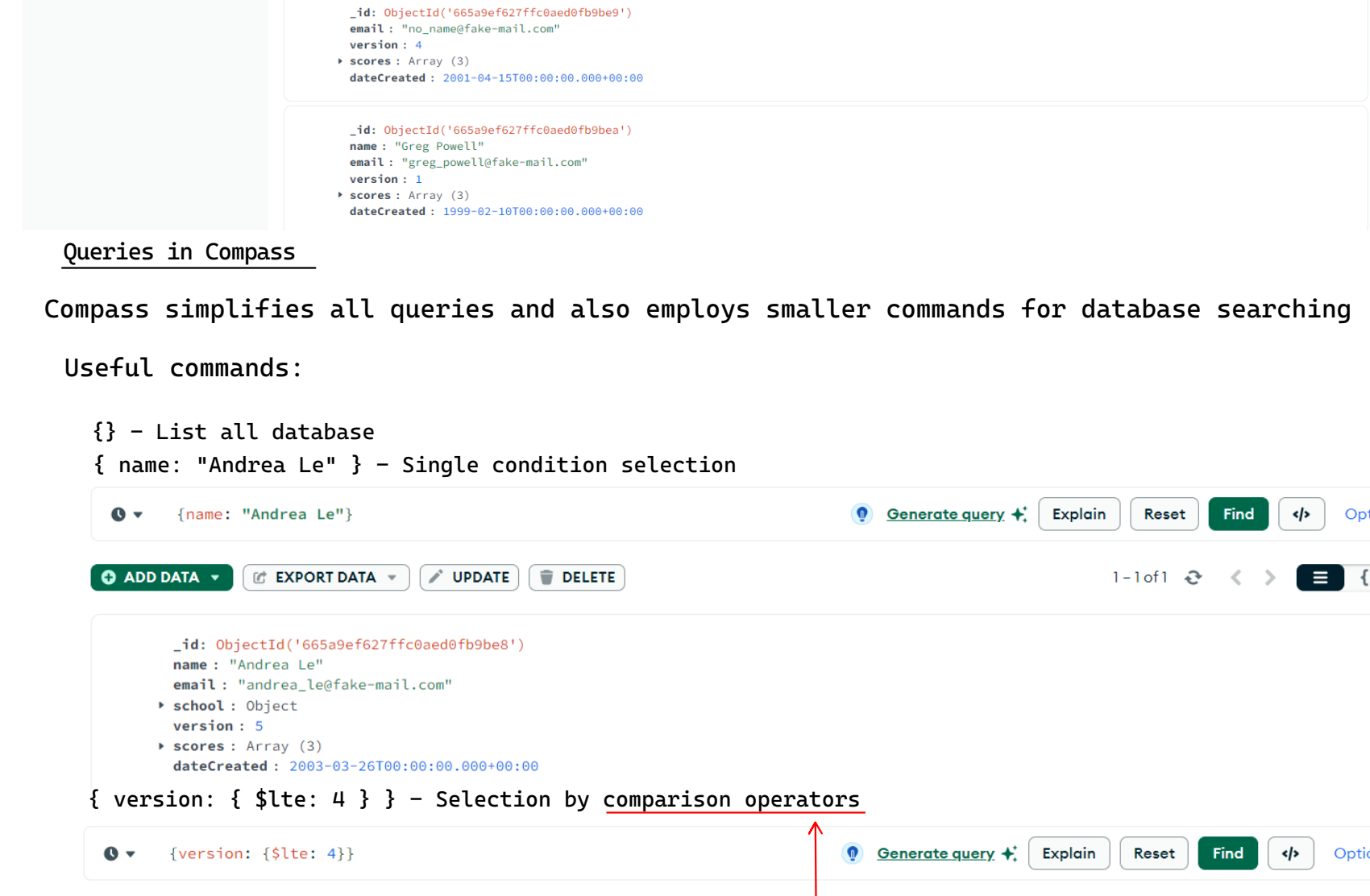
i. Note that in this section it is possible to view the database and its collections.

ii. In this field, it's possible to input simplified queries.

iii. The results of queries are actually shown in the field.



When accessing the 'Options' menu, we have additional query options such as sorting a field of the 'Collection'.



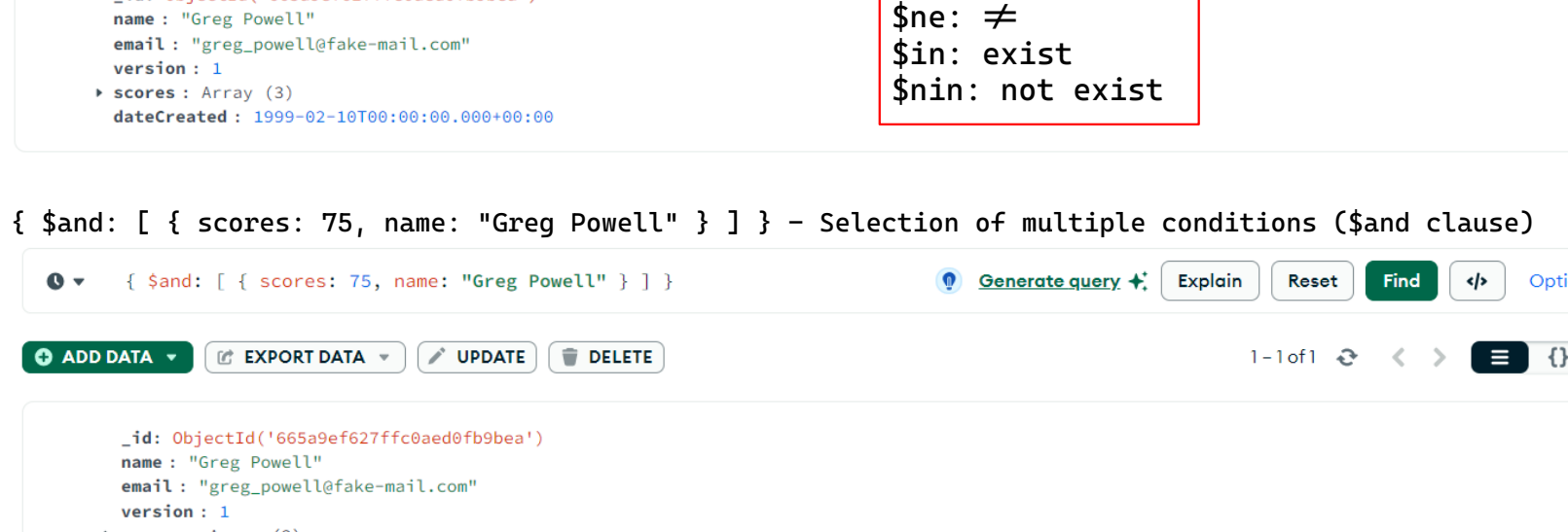
Queries in Compass

Compass simplifies all queries and also employs smaller commands for database searching

Useful commands:

{ } – List all database

{ name: 'Andrea Le' } – Single condition selection



{ version: { \$lte: 4 } } – Selection by comparison operators



{ \$and: [{ scores: 75, name: 'Greg Powell' }] } – Selection of multiple conditions (\$and clause)



{ \$or: [{ version: 4 }, { name: 'Andrea Le' }] } – Selection of multiple conditions (\$or clause)

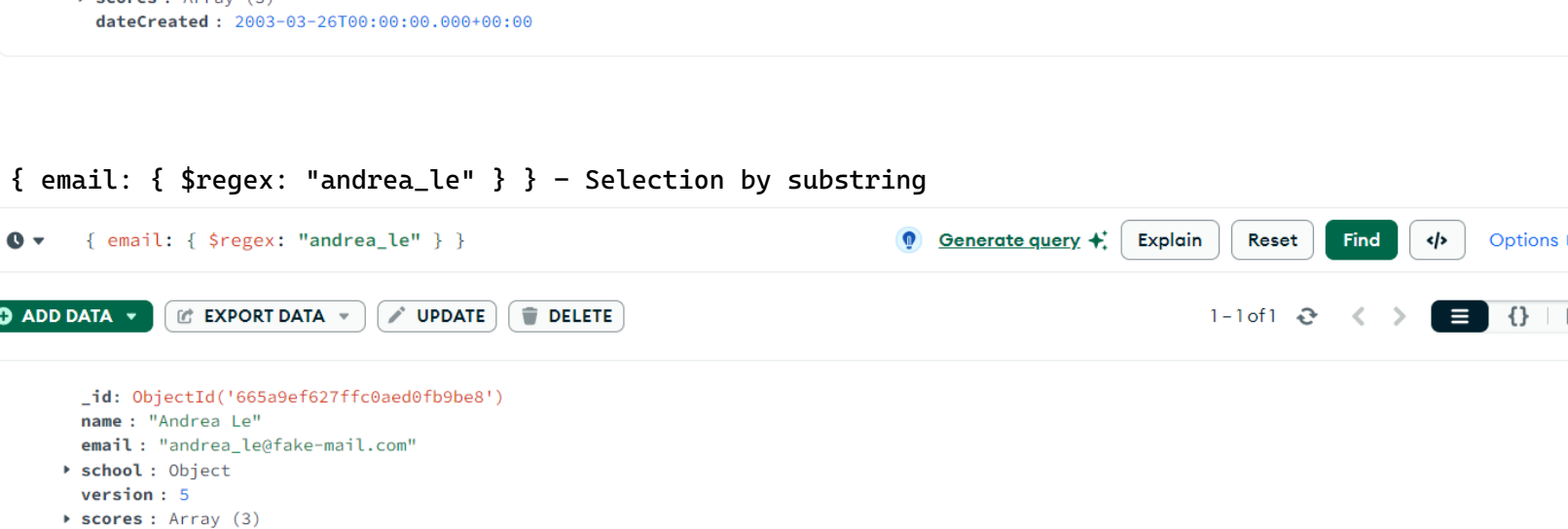


{ name: { \$not: { \$eq: 'Andrea Le' } } } – Inverse selection (\$not clause)

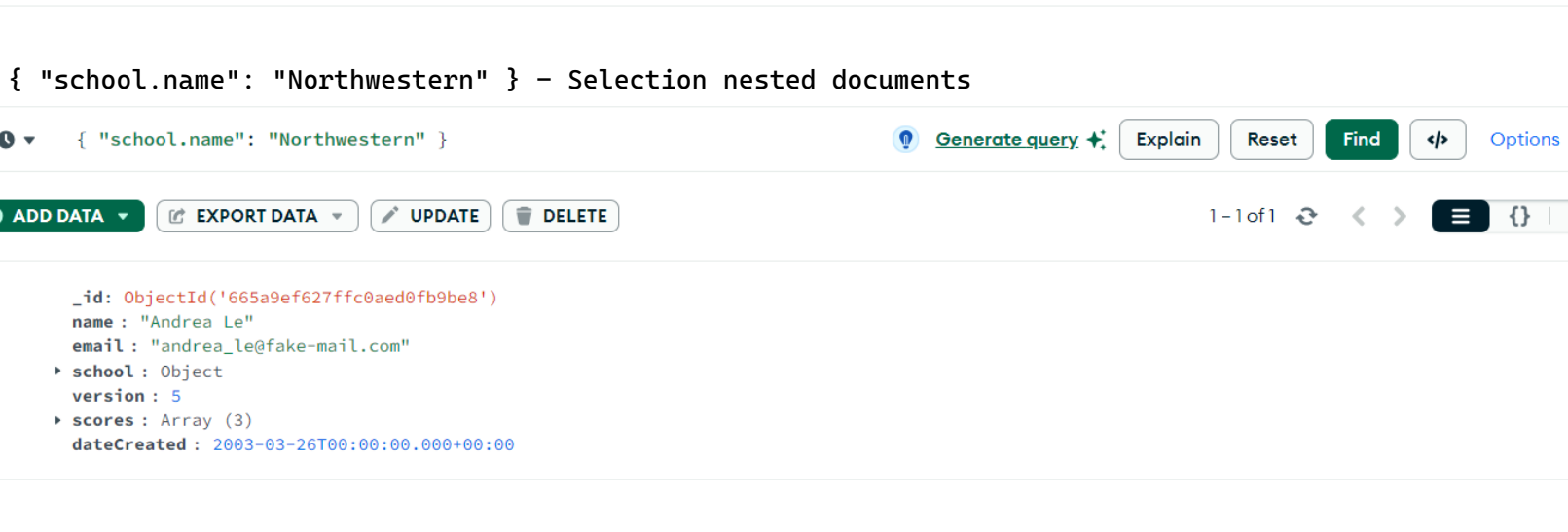


{ dateCreated: { \$gt: new Date('2000-06-22') } } – Selection by date.

Notice that the 'new' command is used to create a new instance of the Date class.



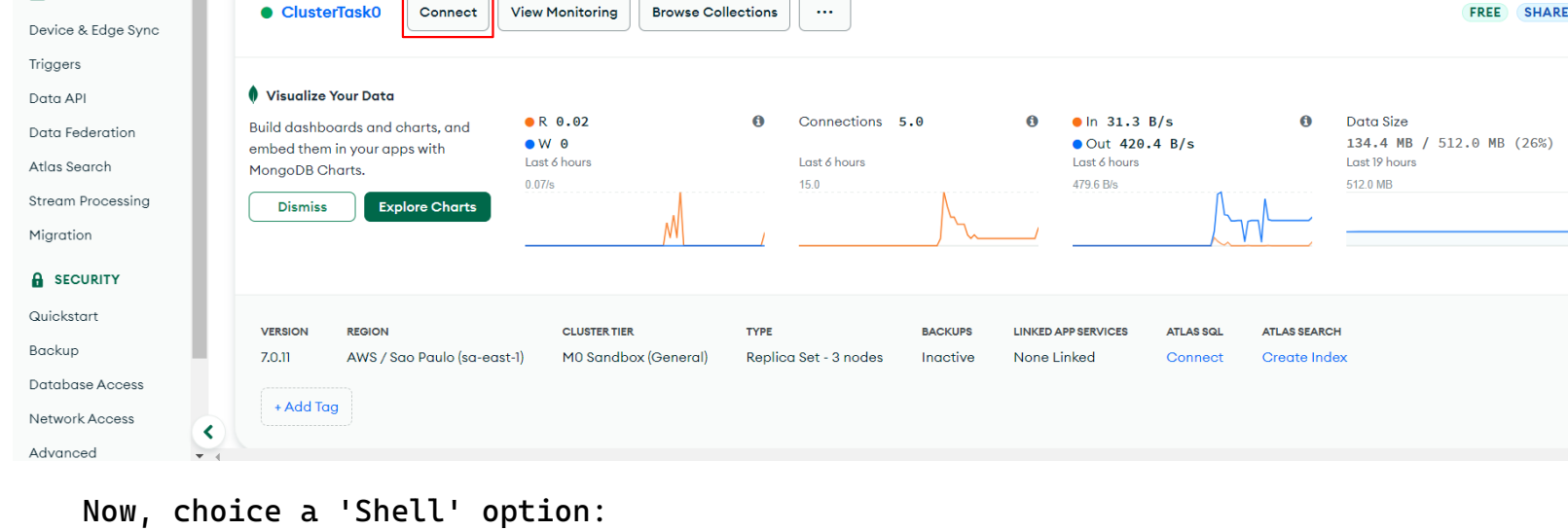
{ scores: { \$elemMatch: { \$gt: 80, \$lt: 90 } } } – Selection by array conditions



{ email: { \$regex: 'andrea_le' } } – Selection by substring



{ 'school.name': 'Northwestern' } – Selection nested documents



Task 2: Queries on MongoDB with Mongosh

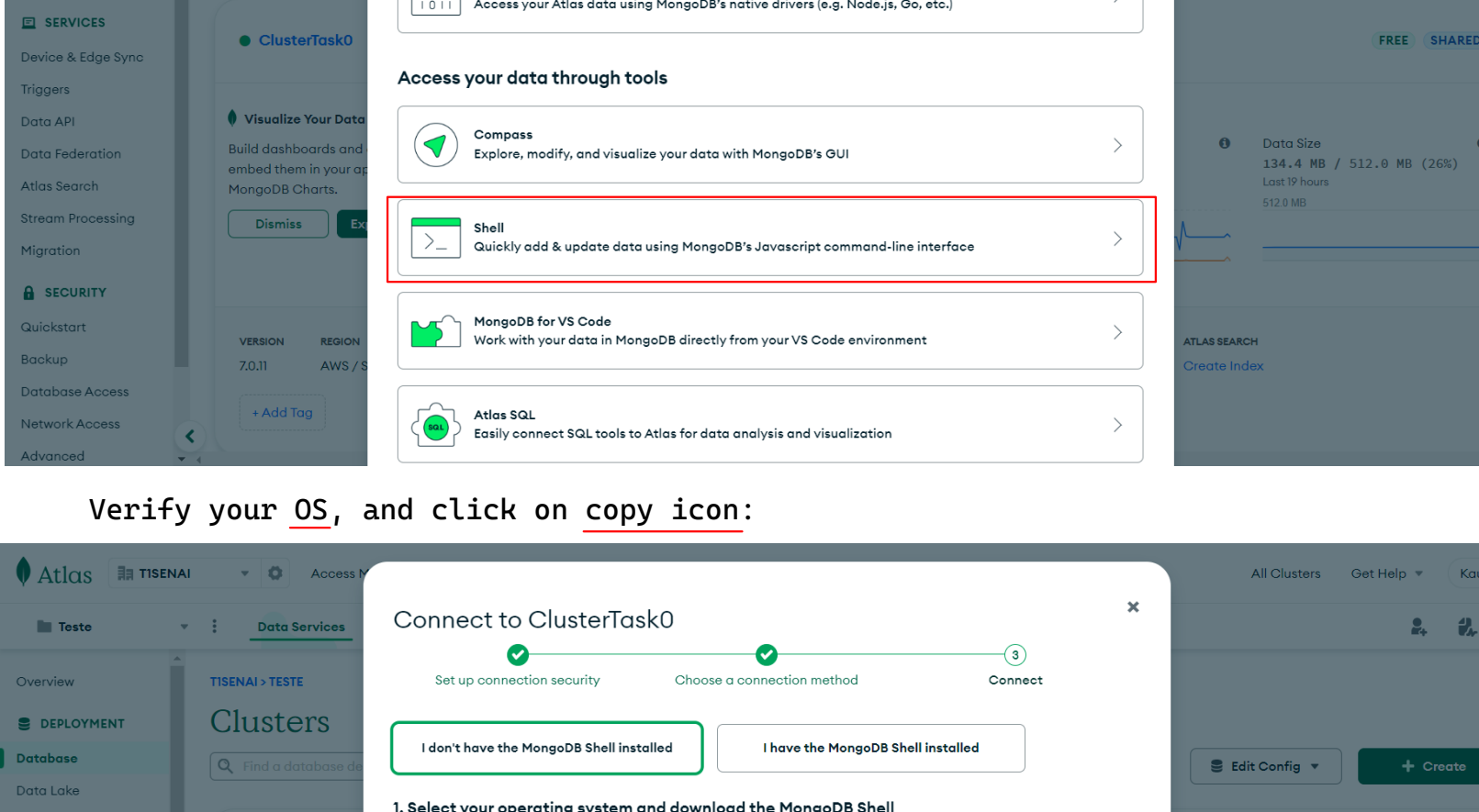
Mongosh can be accessed in two ways:

– Windows PowerShell

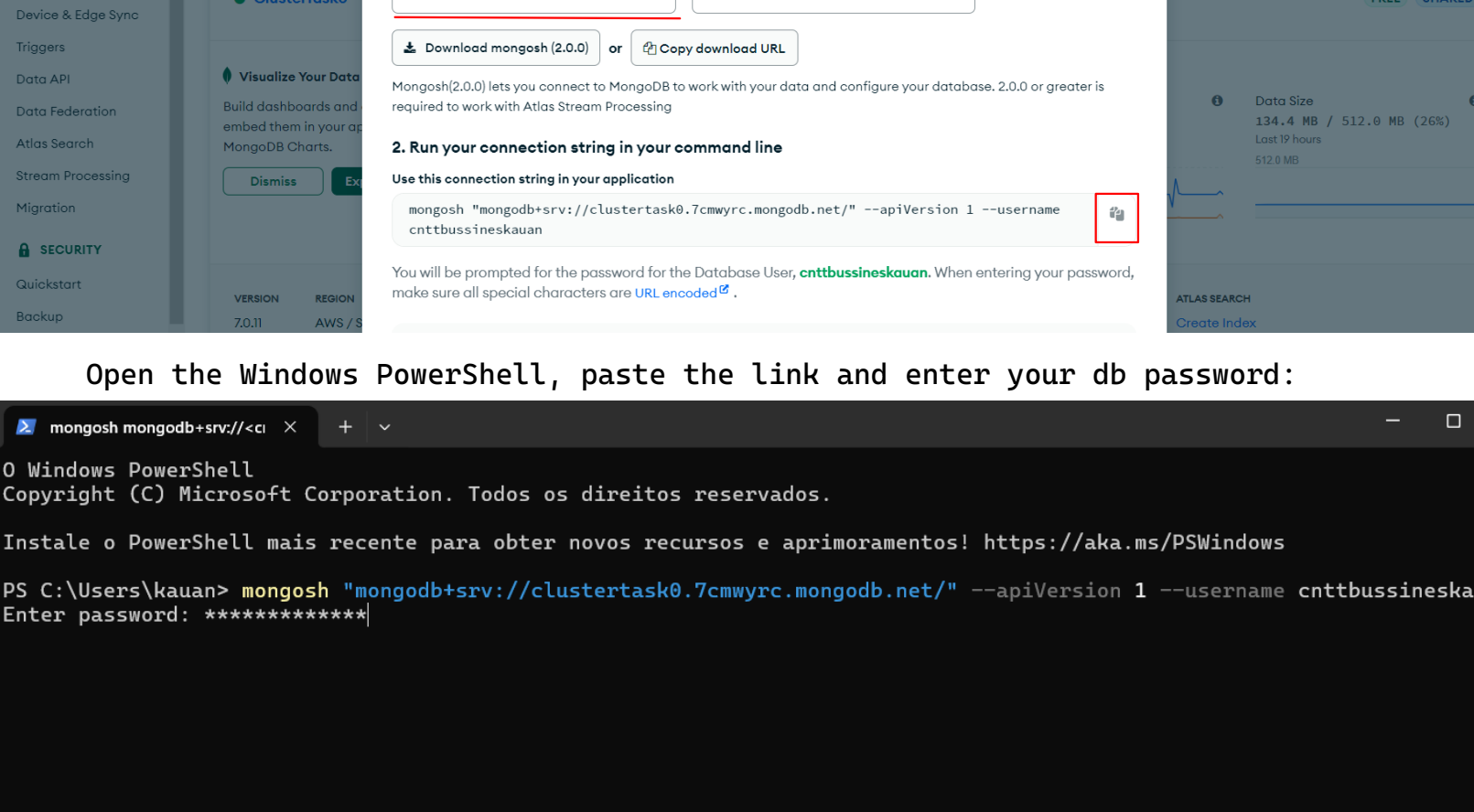
– Compass Mongosh

2.1 Windows PowerShell:

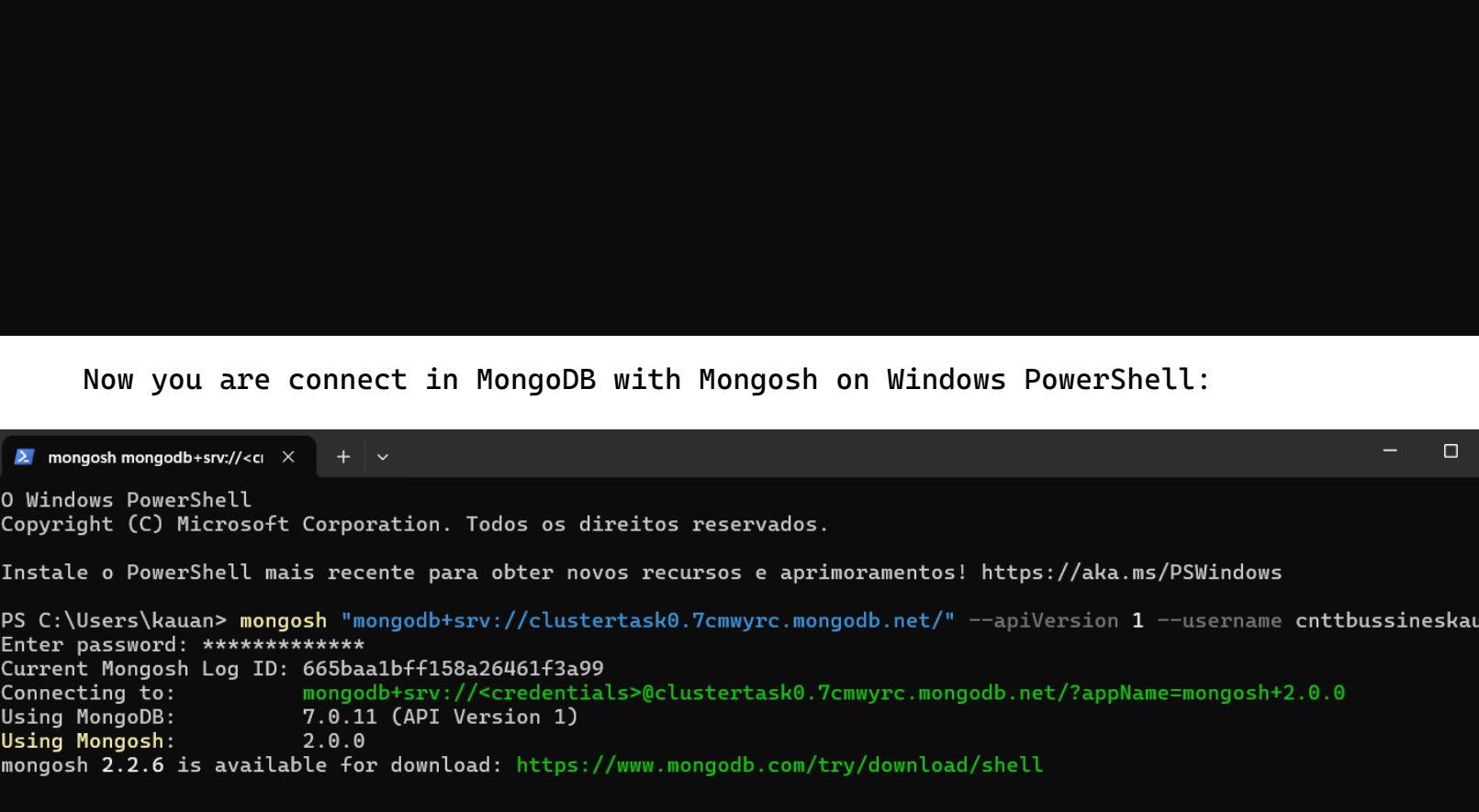
Click on 'Connect button':



Now, choose a 'Shell' option:



Open the Windows PowerShell, paste the link and enter your db password:



Now you can connect to MongoDB with Mongosh on Windows PowerShell:

