

2024년 상반기 K-디지털 트레이닝

# MongoDB 개요

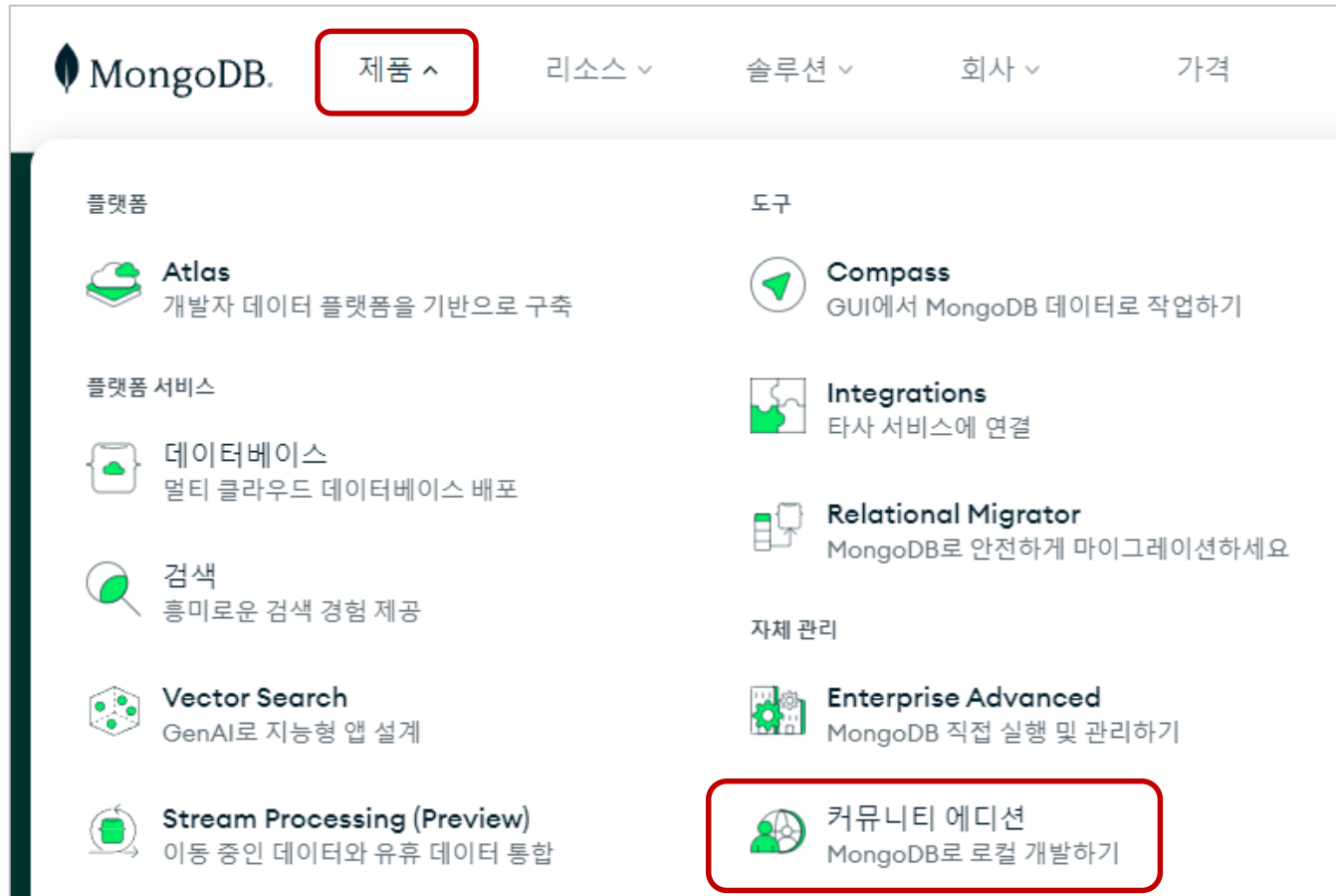
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[KB] IT's Your Life

# 1 MongoDB 설치

## ✓ MongoDB 다운로드

○ <https://www.mongodb.com/>



# 1 MongoDB 설치

## ✓ MongoDB 다운로드

### MongoDB Community Edition

MongoDB is a general-purpose document database. With the Community Edition you can self-manage and host it locally or in the cloud. You can also develop with MongoDB Atlas for free in your local environment, including local experiences for full-text and vector search, as well as in the cloud.

[Download Community](#)[Try Atlas](#) →

Version

7.0.8 (current) ▼

Platform

Windows x64 ▼

Package

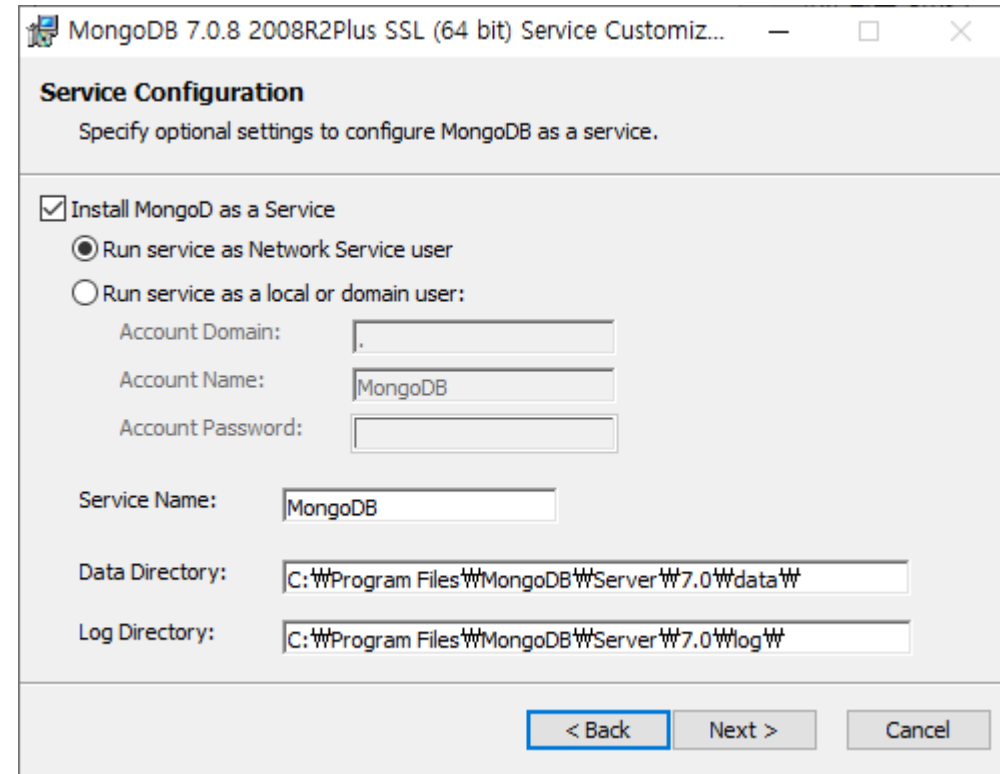
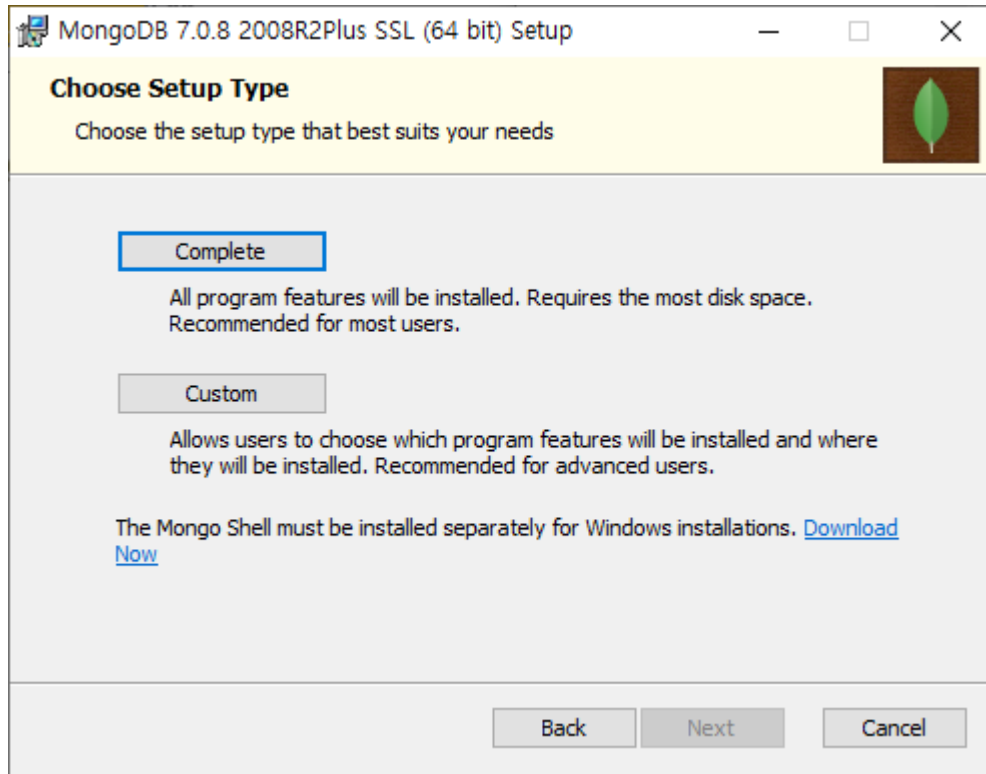
msi ▼

[Download](#) ↓[Copy link](#)[More Options](#) ...

# 1 MongoDB 설치

## ✓ MongoDB 설치

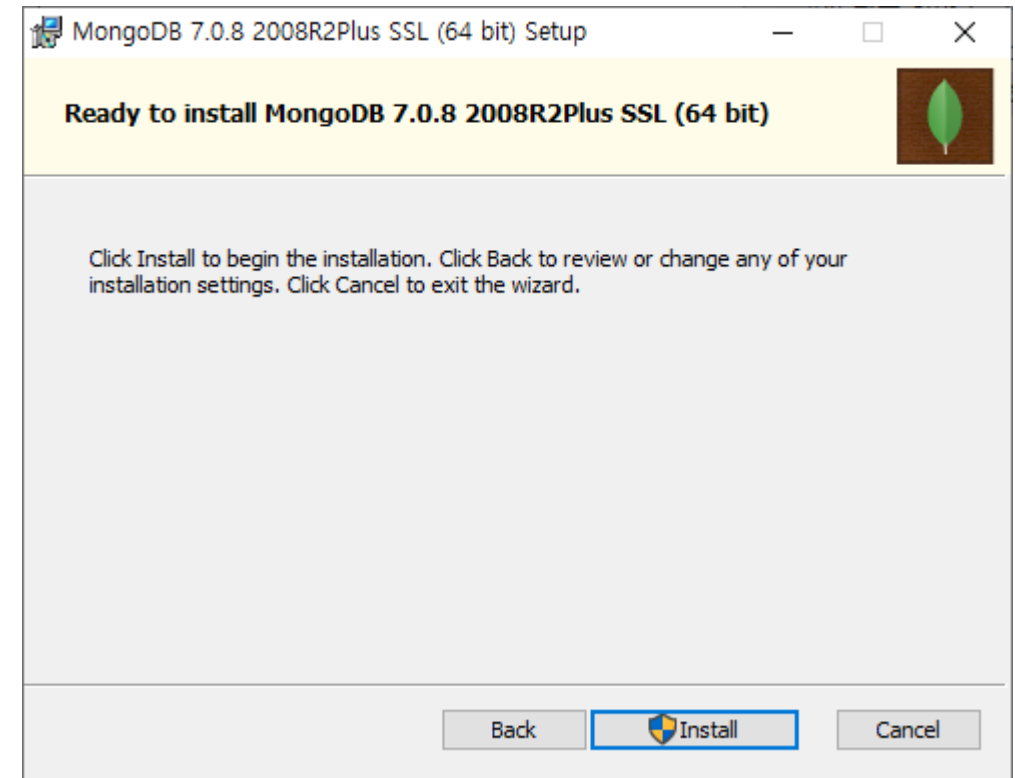
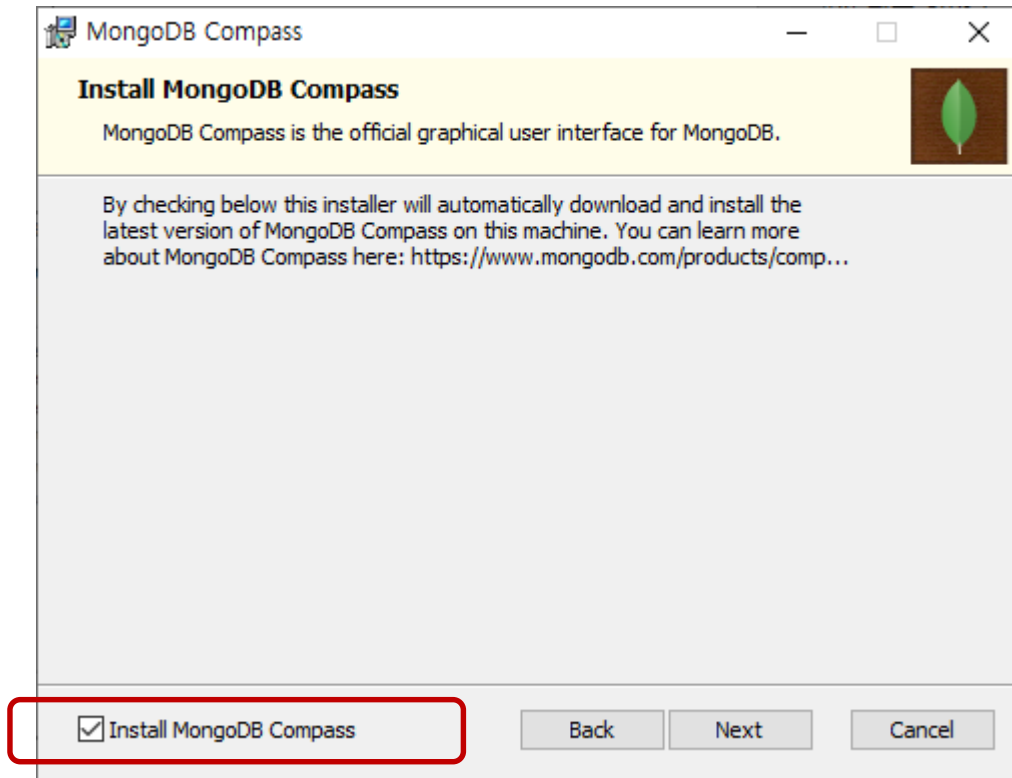
### ○ mongodb-windows-x86\_64-7.0.8-signed.msi 실행



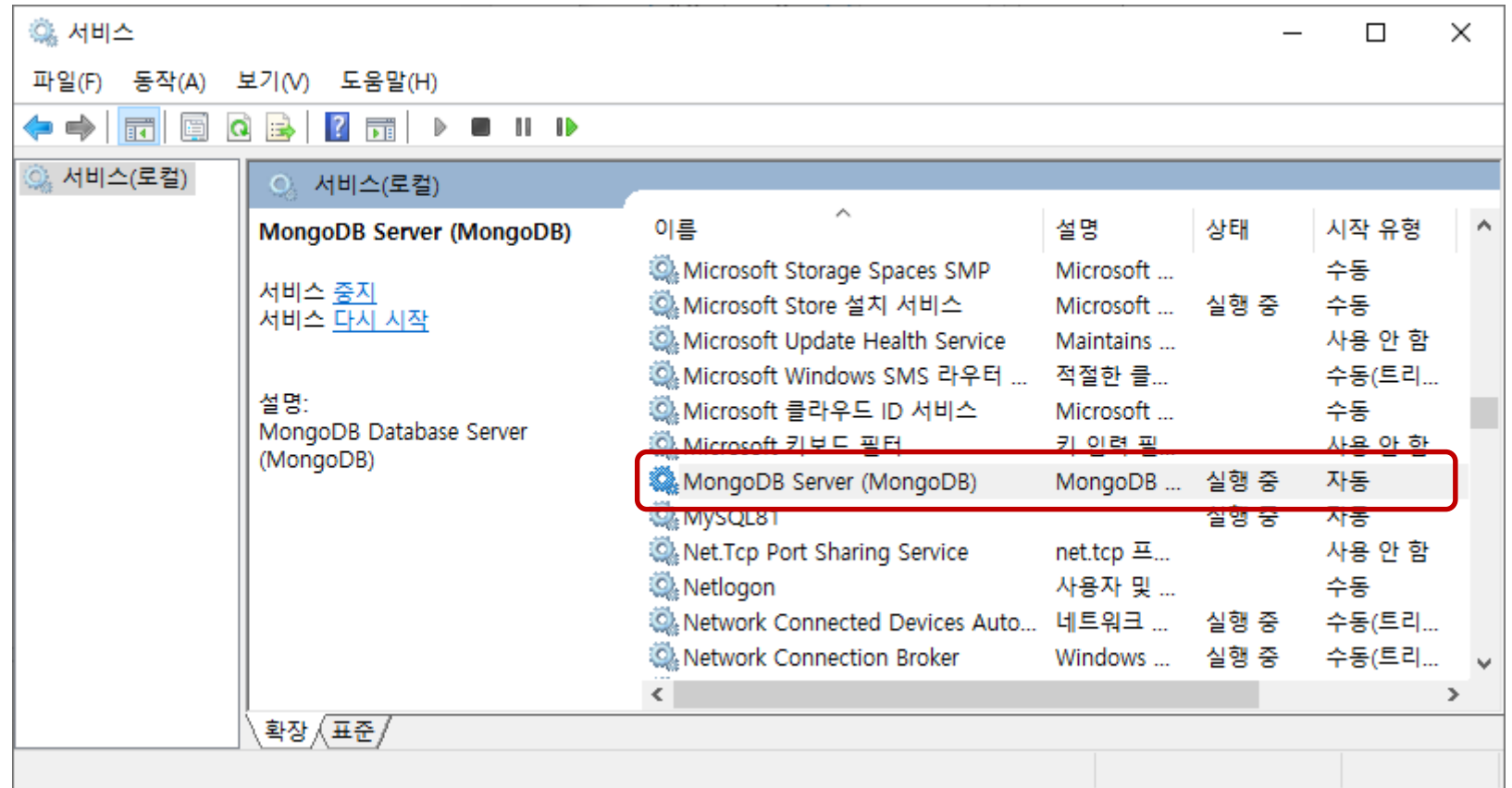
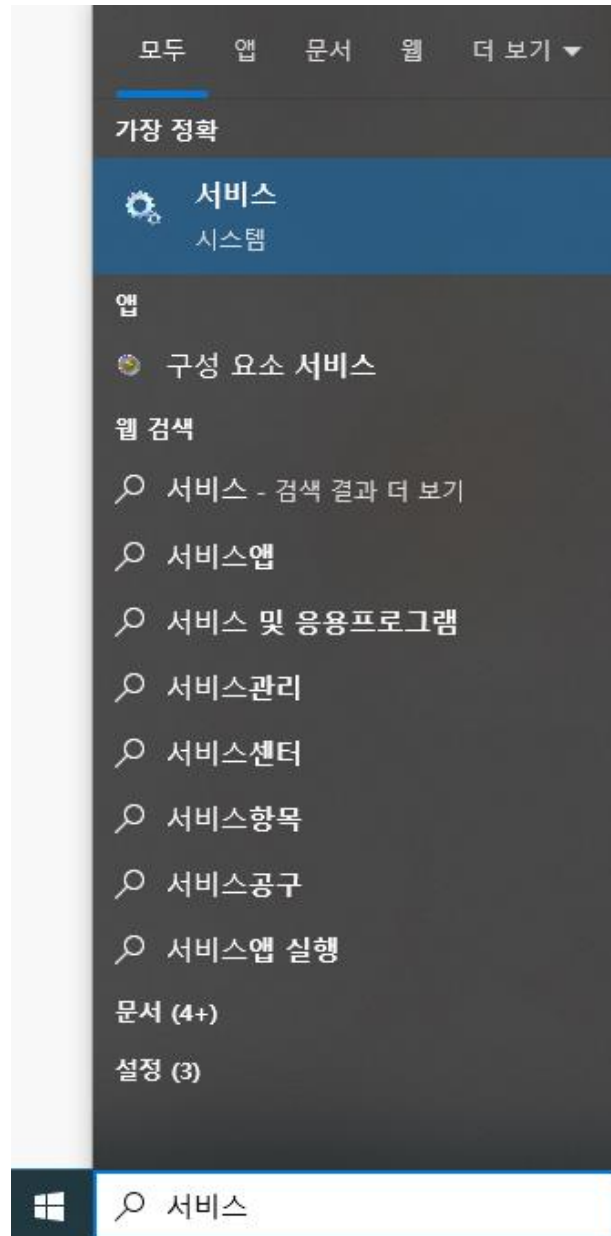
# 1 MongoDB 설치

## ✓ MongoDB 설치

- mongodb-windows-x86\_64-7.0.8-signed.msi 실행



# 1 MongoDB 설치



## 2 MongoDB Client

### ✓ MongoDB Shell 설치

The screenshot shows the MongoDB website's navigation and product selection interface. The left sidebar lists various MongoDB products and tools, with 'MongoDB Shell' highlighted by a red rectangular box. The main content area, titled 'Learn more', displays three dropdown menus for 'Version' (2.2.2), 'Platform' (Windows x64 (10+)), and 'Package' (zip). At the bottom of the main area, there is a green 'Download' button with a download icon, a 'Copy link' button with a document icon, and a 'More Options' link with a three-dot menu icon.

MongoDB. Products ▾ Resources ▾ Solutions ▾ Company ▾ Pricing

MongoDB Atlas

MongoDB Enterprise Advanced

MongoDB Community Edition

Tools

**MongoDB Shell**

MongoDB Compass (GUI)

Atlas CLI

Learn more

Version  
2.2.2 ▾

Platform  
Windows x64 (10+) ▾

Package  
zip ▾

Download ⬇

Copy link

More Options ...

## 2 MongoDB Client

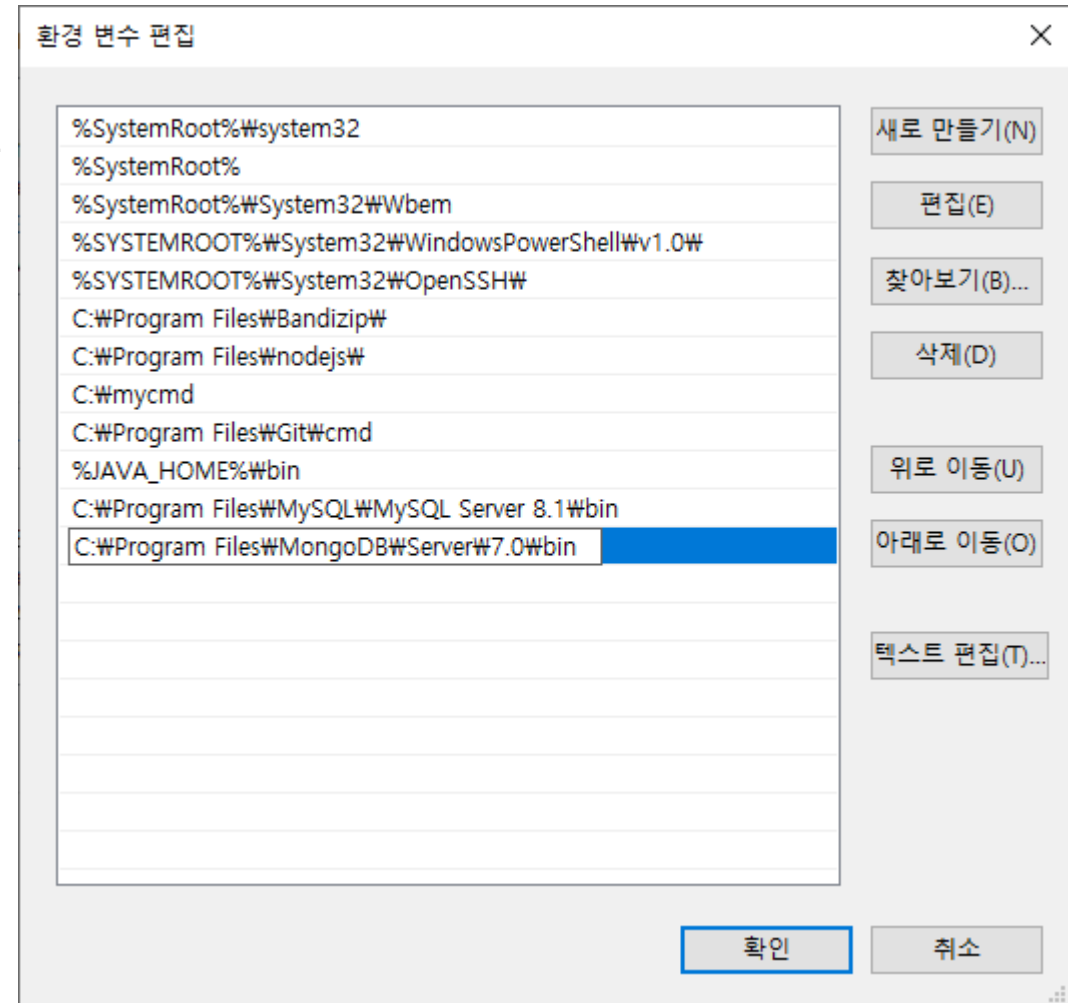
### ✓ MongoDB Shell 설치

#### ○ mongosh-2.2.2-win32-x64.zip

- bin 폴더의 내용을 C:\Program Files\MongoDB\Server\7.0\bin에 복사

#### ○ PATH 환경변수 수정

- C:\Program Files\MongoDB\Server\7.0\bin을 추가





## 2 MongoDB Client

### ✓ 몽고 shell 실행 확인

```
> mongosh
```

```
Please enter a MongoDB connection string (Default: mongodb://localhost/):
```

```
Current Mongosh Log ID: 660df366b9d4eae6259f9909
```

```
Connecting to:
```

```
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.2
```

```
Using MongoDB:      7.0.8
```

```
Using Mongosh:      2.2.2
```

```
For mongosh info see: https://docs.mongodb.com/mongodb-shell/
```

```
To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
```

```
You can opt-out by running the disableTelemetry() command.
```

```
-----
```

```
  The server generated these startup warnings when booting
```

```
  2024-04-04T09:16:00.291+09:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
```

```
-----
```

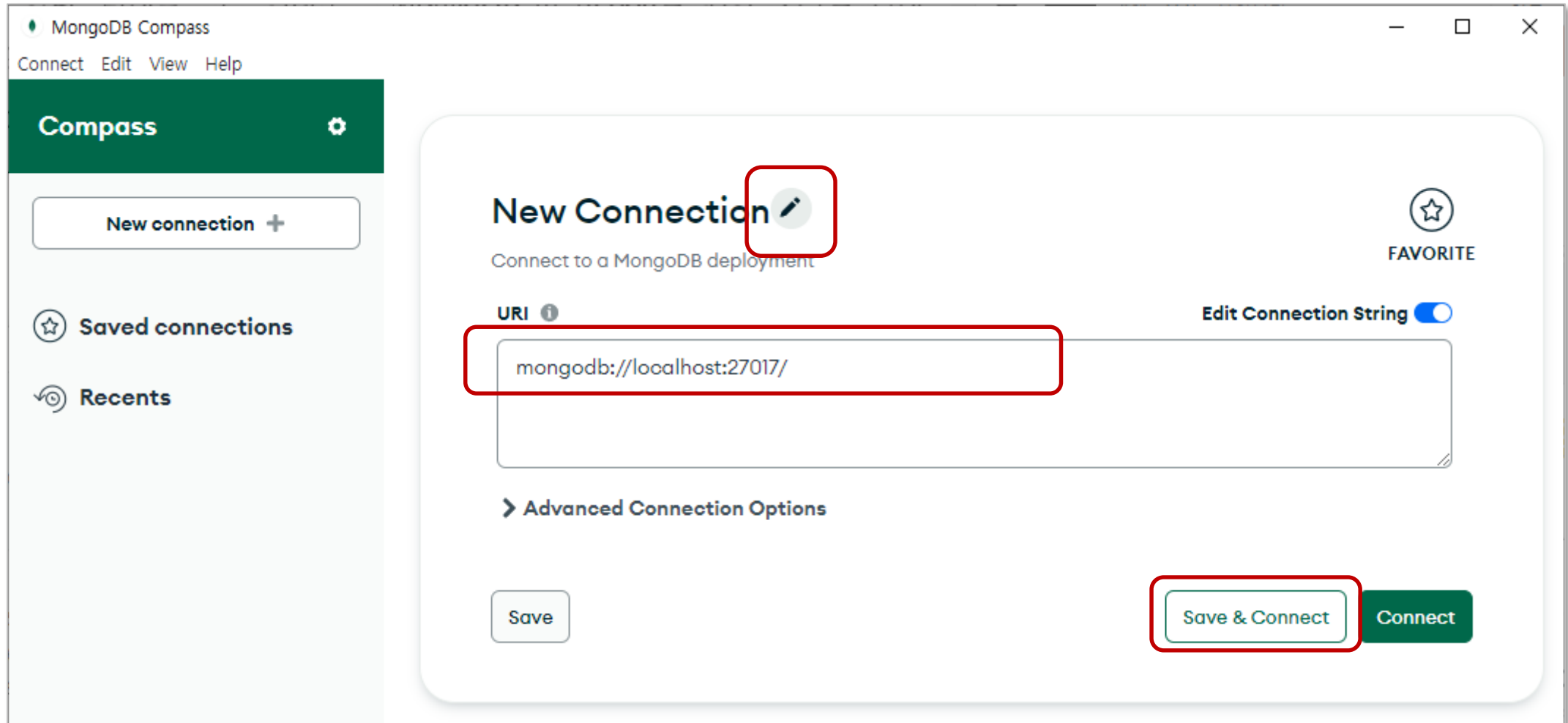
```
test>
```

## 2 MongoDB Client

```
test> use my_database
switched to db my_database
my_database> db.users.insert({name: "Kyle"})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('660df5956bc6400e4f9f990a') }
}
my_database> db.users.find()
[ { _id: ObjectId('660df5956bc6400e4f9f990a'), name: 'Kyle' } ]
```

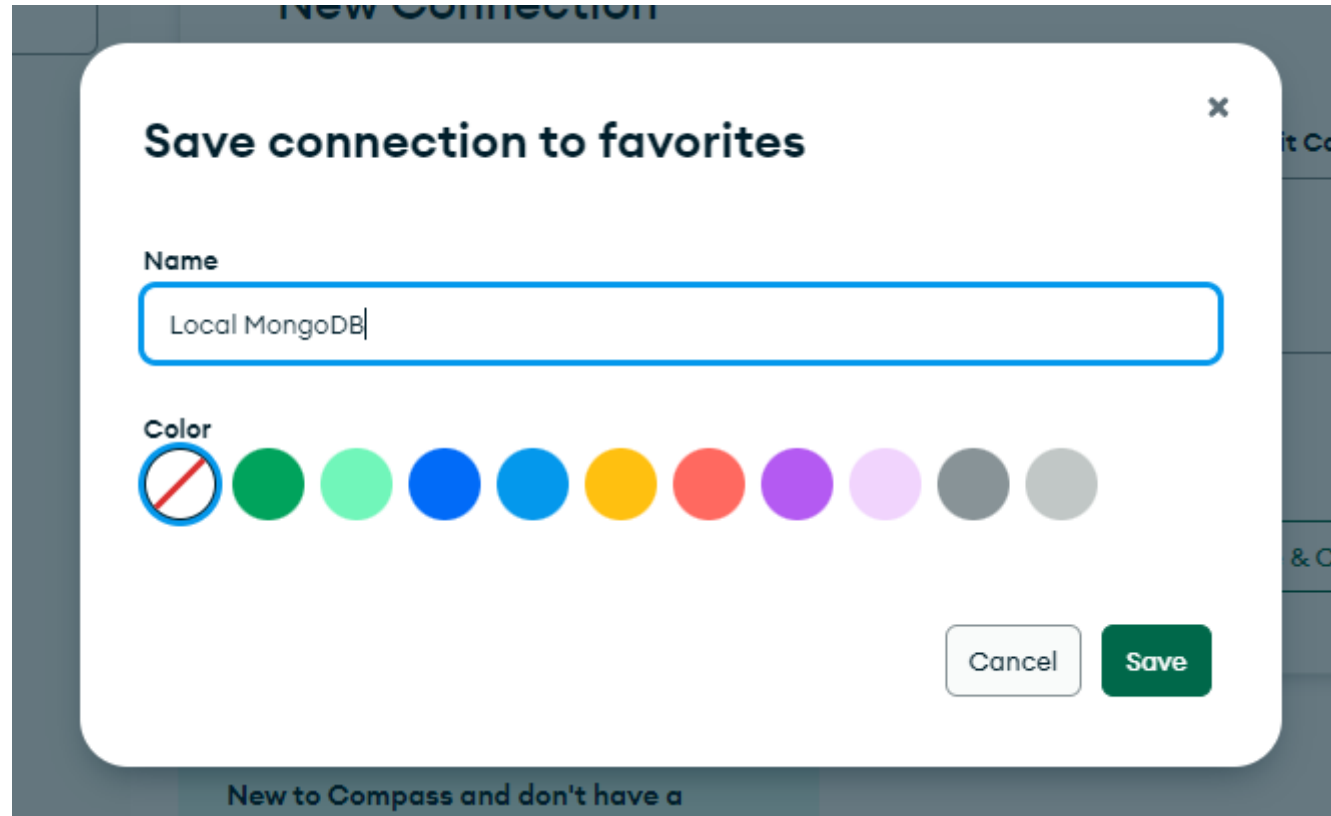
## 2 MongoDB Client

### ✓ MongoDB Compass

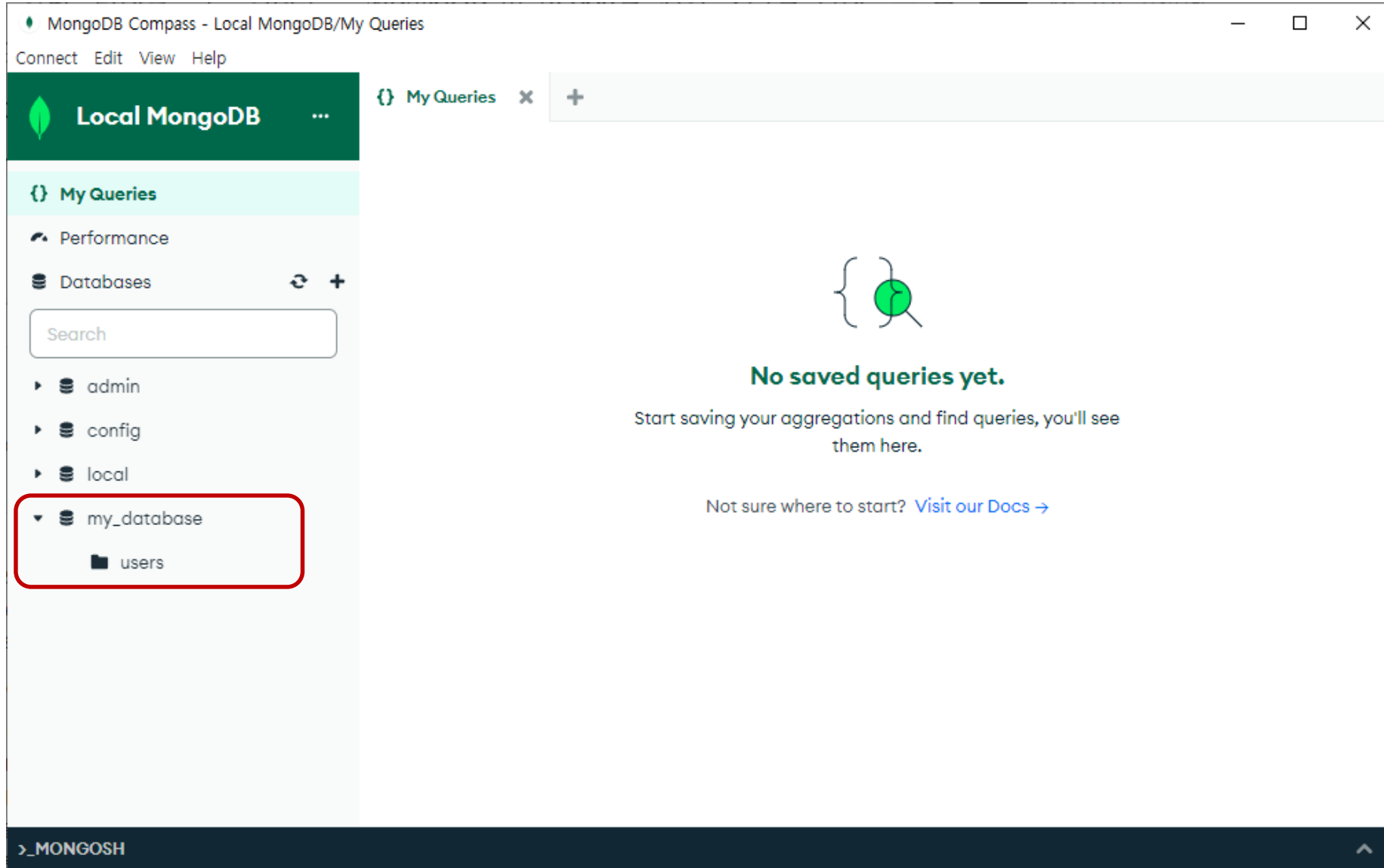


## 2 MongoDB Client

### ✓ MongoDB Compass



## 2 MongoDB Client



## 2 MongoDB Client

The screenshot shows the MongoDB Compass application window titled "MongoDB Compass - Local MongoDB/my\_database". The interface includes a sidebar on the left with a search bar and a list of databases: admin, config, local, and my\_database (selected). The main panel displays the "users" collection in the "my\_database" database. Above the collection details, there are buttons for "Create collection", "Refresh", and "View", along with a "Sort by" dropdown set to "Collection Name". The collection details are summarized in a table:

Storage size:	Documents:	Avg. document size:	Indexes:	Total index size:
20.48 kB	1	37.00 B	1	20.48 kB

The bottom status bar shows the command prompt prompt ">\_MONGOSH".

## 2 MongoDB Client

The screenshot displays the MongoDB Compass application window titled "MongoDB Compass - Local MongoDB/my\_database.users". The interface includes a sidebar on the left with a search bar and a list of databases: admin, config, local, and my\_database. The 'my\_database' database is expanded, showing the 'users' collection. The main panel shows the 'users' collection with a single document displayed: `{ "_id": ObjectId("660df5956bc6400e4f9f990a"), "name": "Kyle" }`. The 'Documents' tab is selected, and the 'ADD DATA' button is highlighted with a red box. A callout menu is shown, with the 'Insert document' option highlighted by a red box. The menu also includes 'Import JSON or CSV file' and 'EXPORT DATA' options.

MongoDB Compass - Local MongoDB/my\_database.users

Connect Edit View Collection Help

Local MongoDB

My Queries Performance Databases

Search

admin config local my\_database

users

My Queries

my\_database > users

Documents 1 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Get](#) Explain Reset Find </> Options

+ ADD DATA EXPORT DATA

1-1 of 1

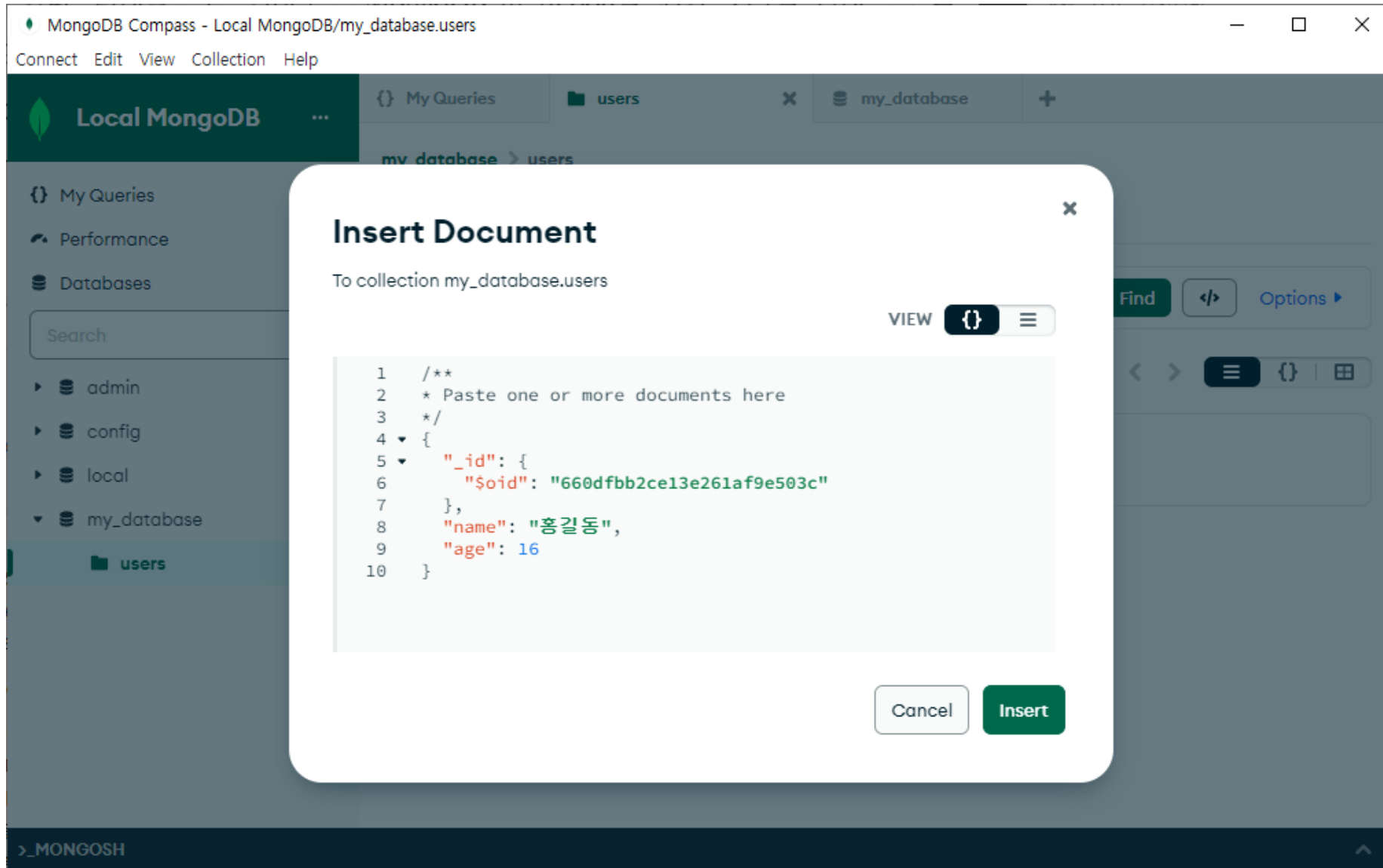
\_id: ObjectId("660df5956bc6400e4f9f990a")  
name: "Kyle"

Import JSON or CSV file

Insert document

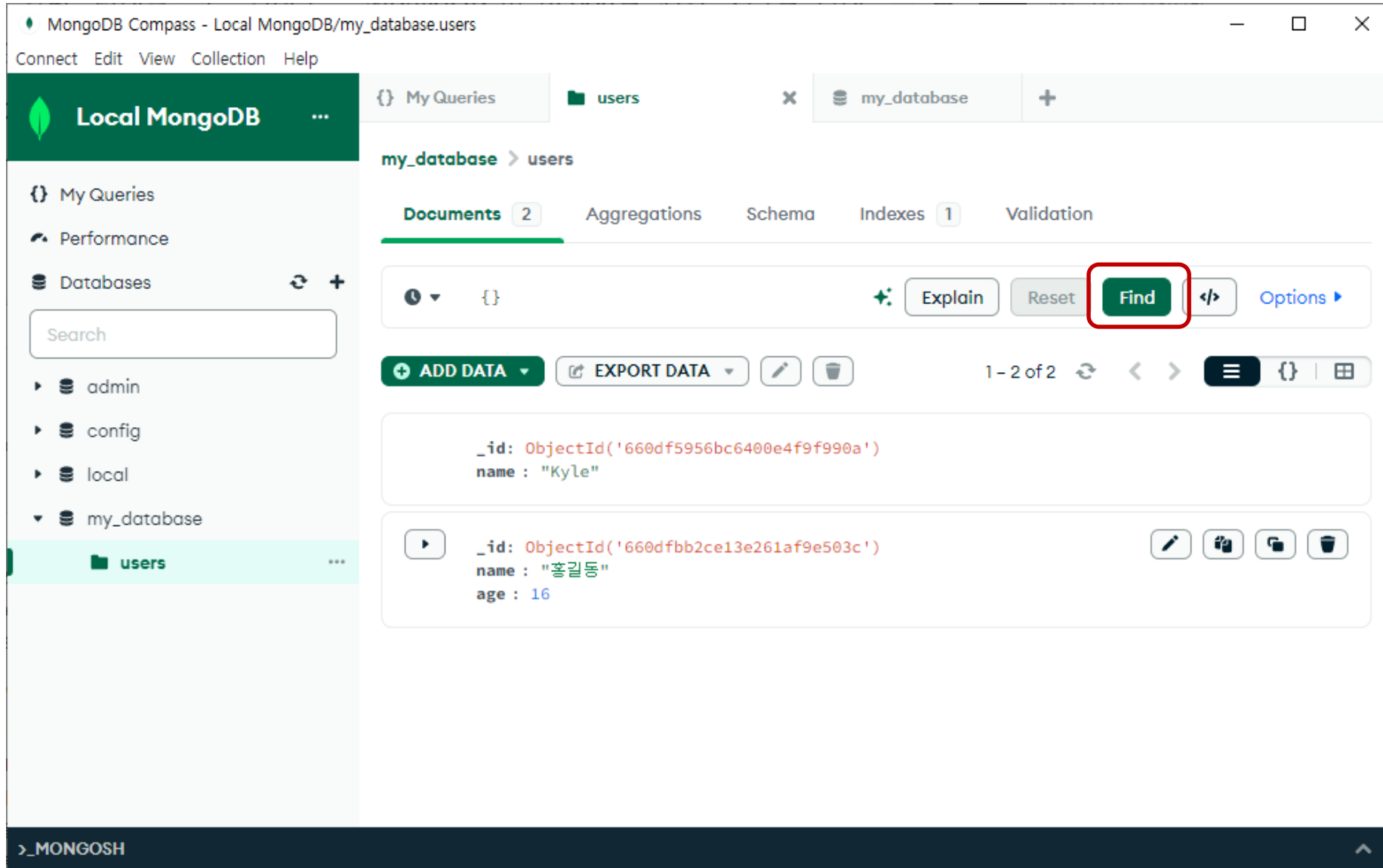
>\_MONGOSH

## 2 MongoDB Client





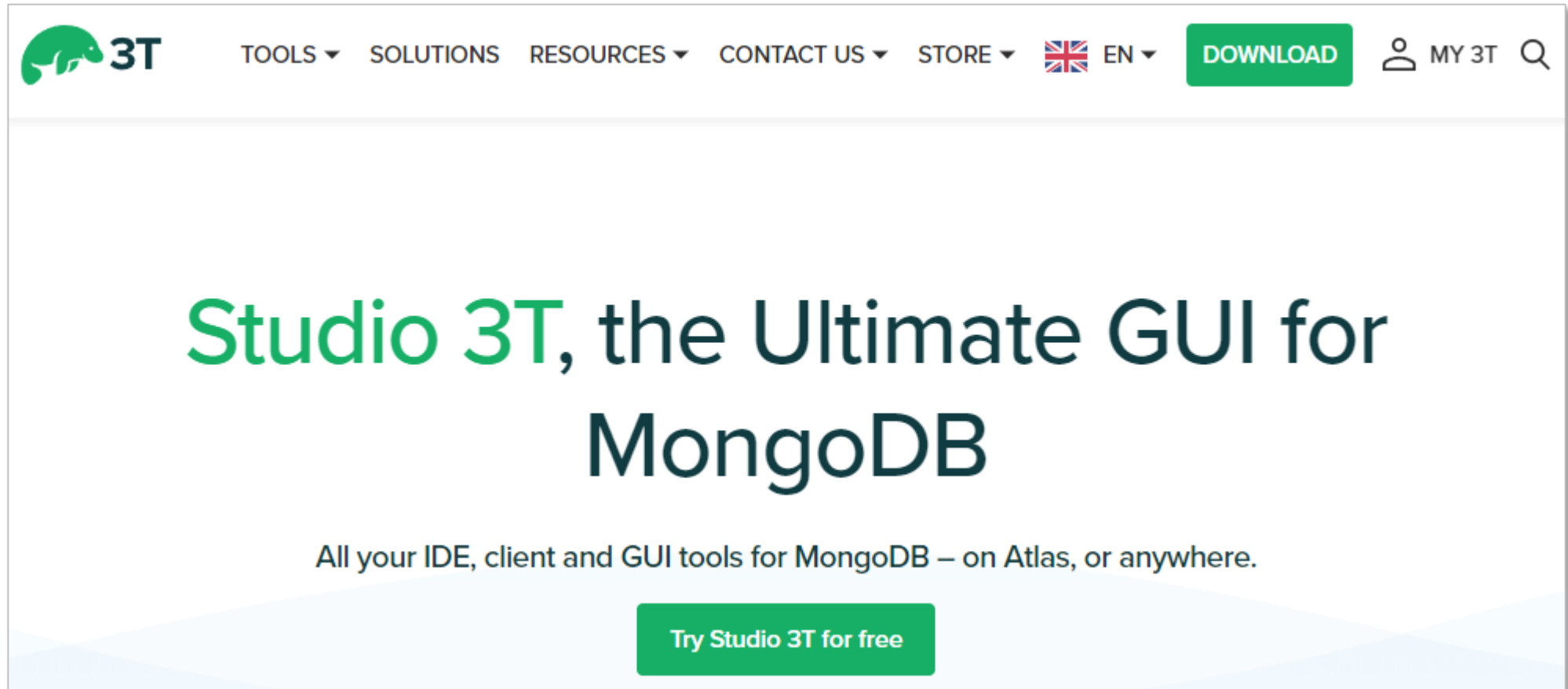
## 2 MongoDB Client



## 2 MongoDB Client

### ✓ Studio 3T

○ <https://studio3t.com/>



## 2 MongoDB Client

### ✓ Studio 3T

# Download Studio 3T

Delivering the ultimate GUI experience since 2014



Download for Windows (64-Bit)



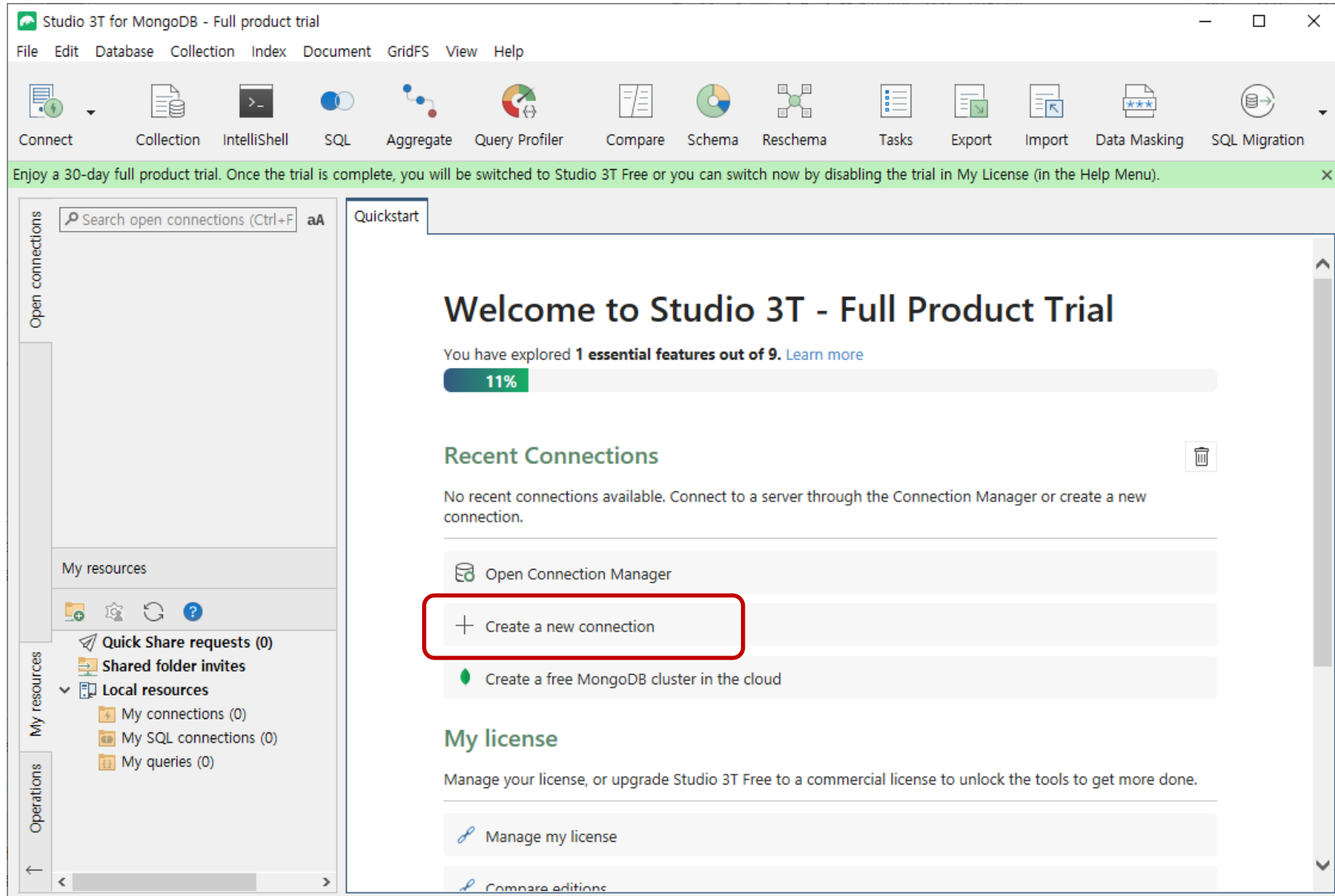
Other platforms

## 2 MongoDB Client

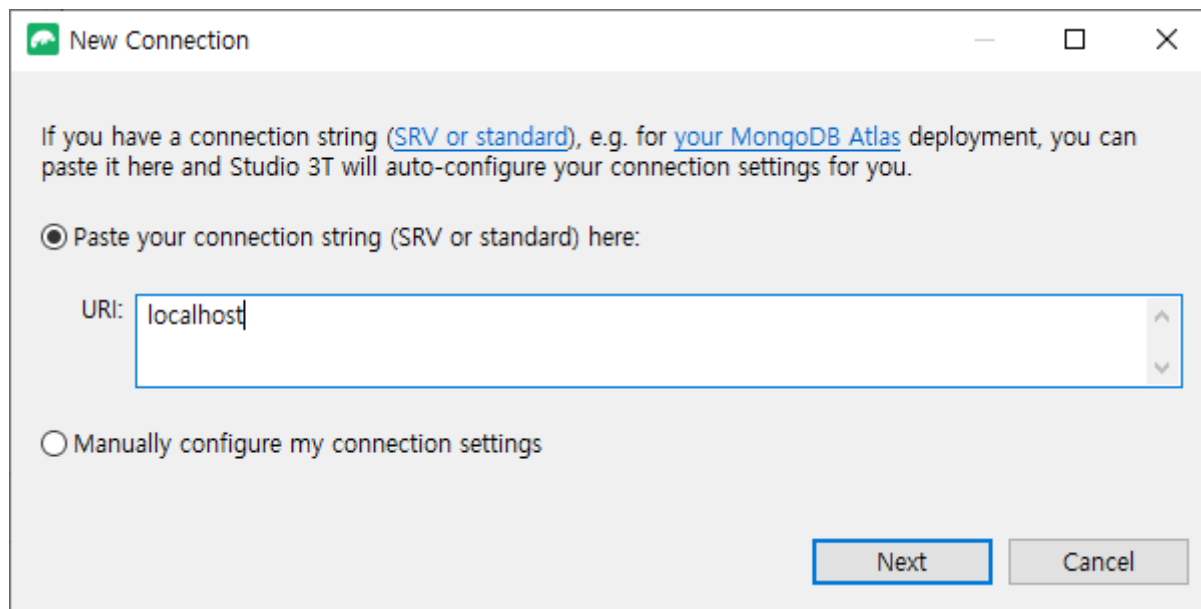
### ✓ Studio 3T

- studio-3t-x64.zip의 studio-3t-x64.exe 실행
  - 디폴트로 설치
- 첫 실행
  - 계정 로그인 필요
    - 필요한 경우 회원 가입

## 2 MongoDB Client



## 2 MongoDB Client



## 2 MongoDB Client

New Connection

Connection name: local MongoDB

Connection folder: Local resources

Server Authentication SSL SSH Proxy IntelliShell MongoDB Tools Advanced Collection History

Connection Type: Standalone

Server: localhost Port: 27017

☐ Read-Only Lock ⓘ

From URI... Use this option to import connection details from a connection string / URI

To URI... Use this option to export complete connection details to a connection string / URI

Test Connection Save Cancel

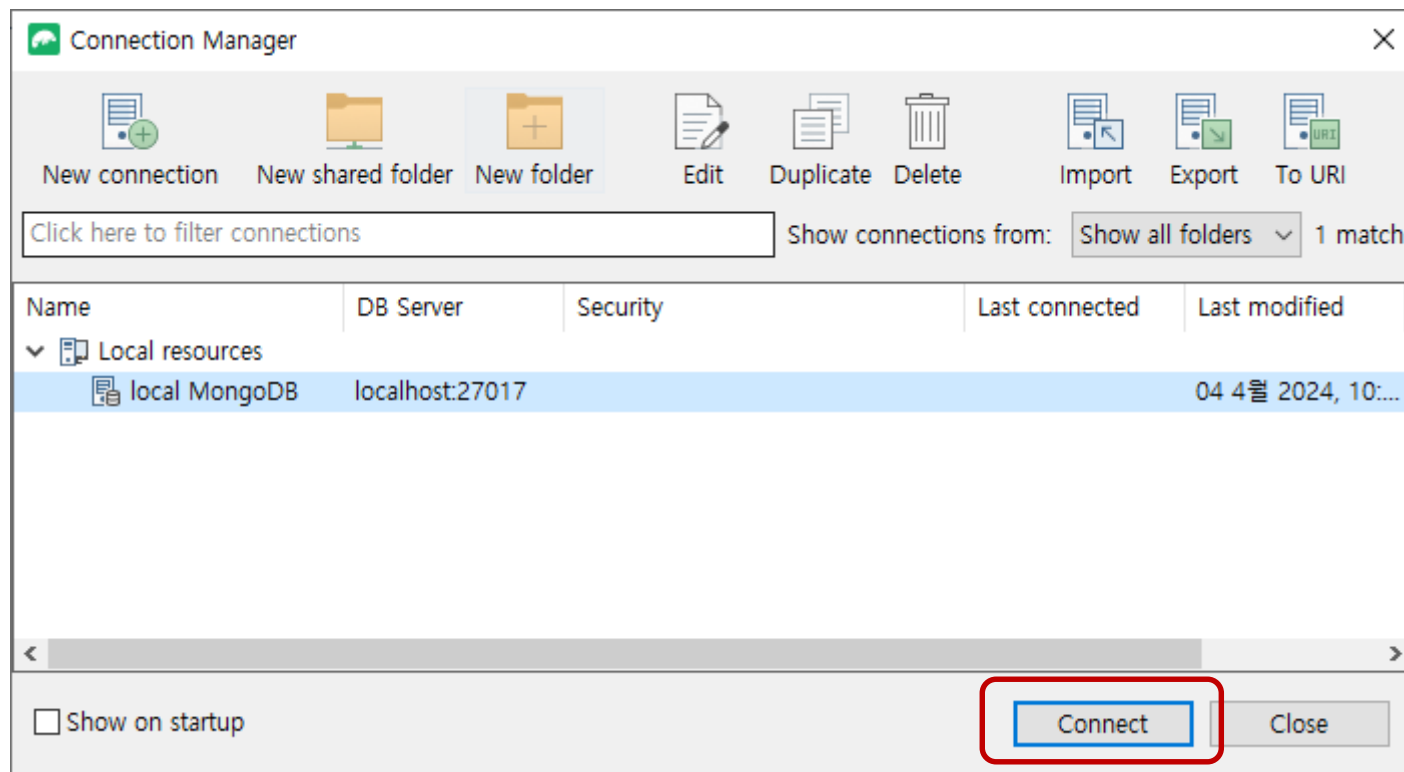
Connecting

Testing connection

Operation	Status
Initializing connection	OK
Connecting to server	OK
Reading server status from connection	OK
Detecting accessible databases	OK
Detecting MongoDB server version	OK
Detecting MongoDB server feature compatibility version	OK
Connected	OK

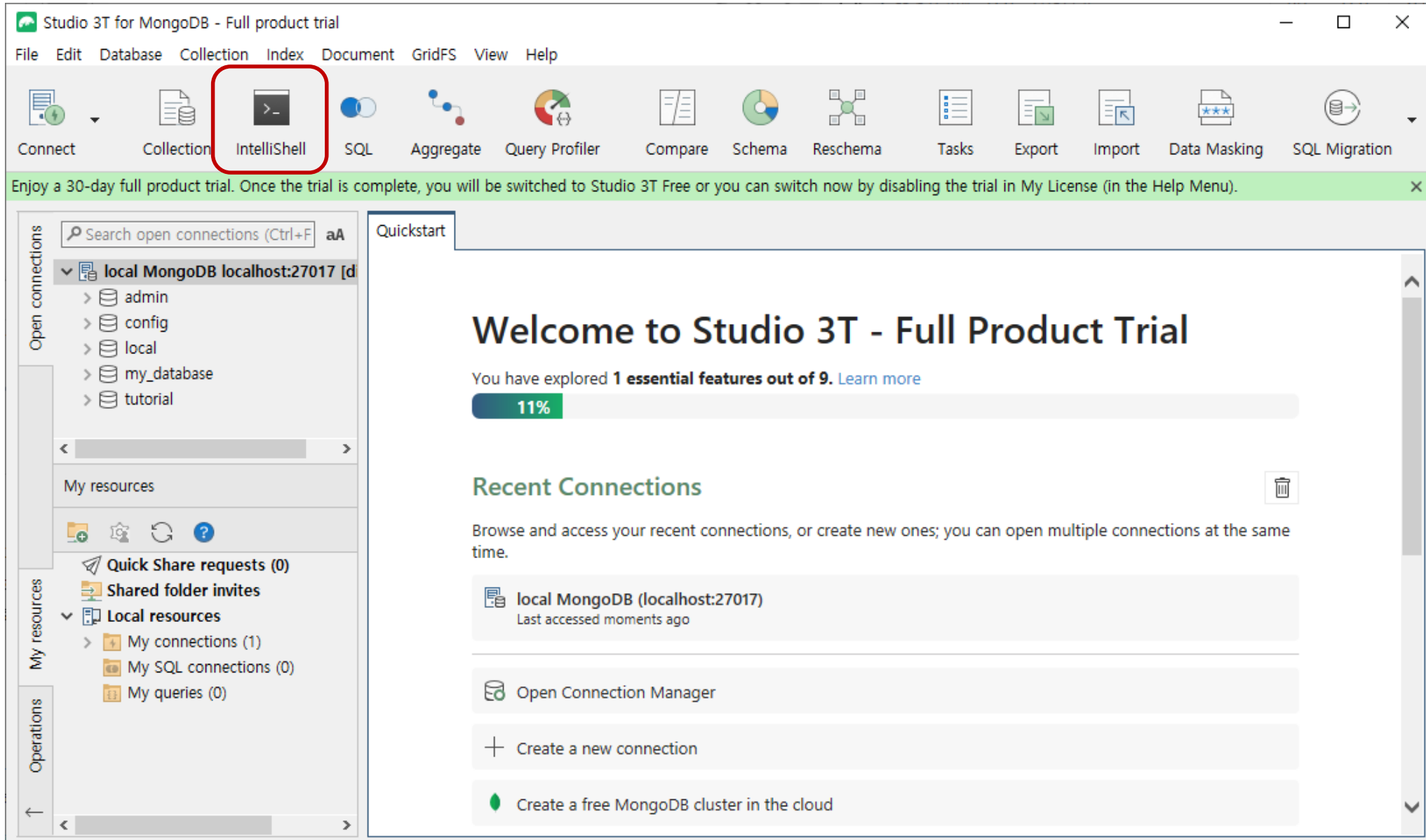
Hide details OK Cancel

## 2 MongoDB Client





## 2 MongoDB Client



The screenshot displays the MongoDB Client interface. On the left, the 'Open connections' panel shows a connection to 'localhost:27017' with databases 'admin', 'config', and 'local'. Below it, 'My resources' includes 'Quick Share requests (0)', 'Shared folder invites', and 'Local resources' with 'My connections (1)', 'My SQL connections (0)', and 'My queries (0)'. The main area is the 'IntelliShell: local MongoDB\*' window, which has tabs for 'Quickstart' and 'IntelliShell: local MongoDB\*'. The 'IntelliShell' tab is active, showing a script editor with the following code:

```
1 use tutorial;
2
3
4 db.users.find()
5
```

The script is executed, and the 'Raw shell output' panel shows the results of the query. The output is a table with columns '\_id' and 'username'. The first document is selected, showing '\_id' as '660dfd196bc6...' and 'username' as 'smith'. The second document shows '\_id' as '660dfd866bc6...' and 'username' as 'jones'.

_id	username
660dfd196bc6...	smith
660dfd866bc6...	jones

At the bottom of the 'Raw shell output' panel, it indicates '1 document selected'. The status bar at the bottom right shows 'Count Documents' and a timer '00:00:00.002'.