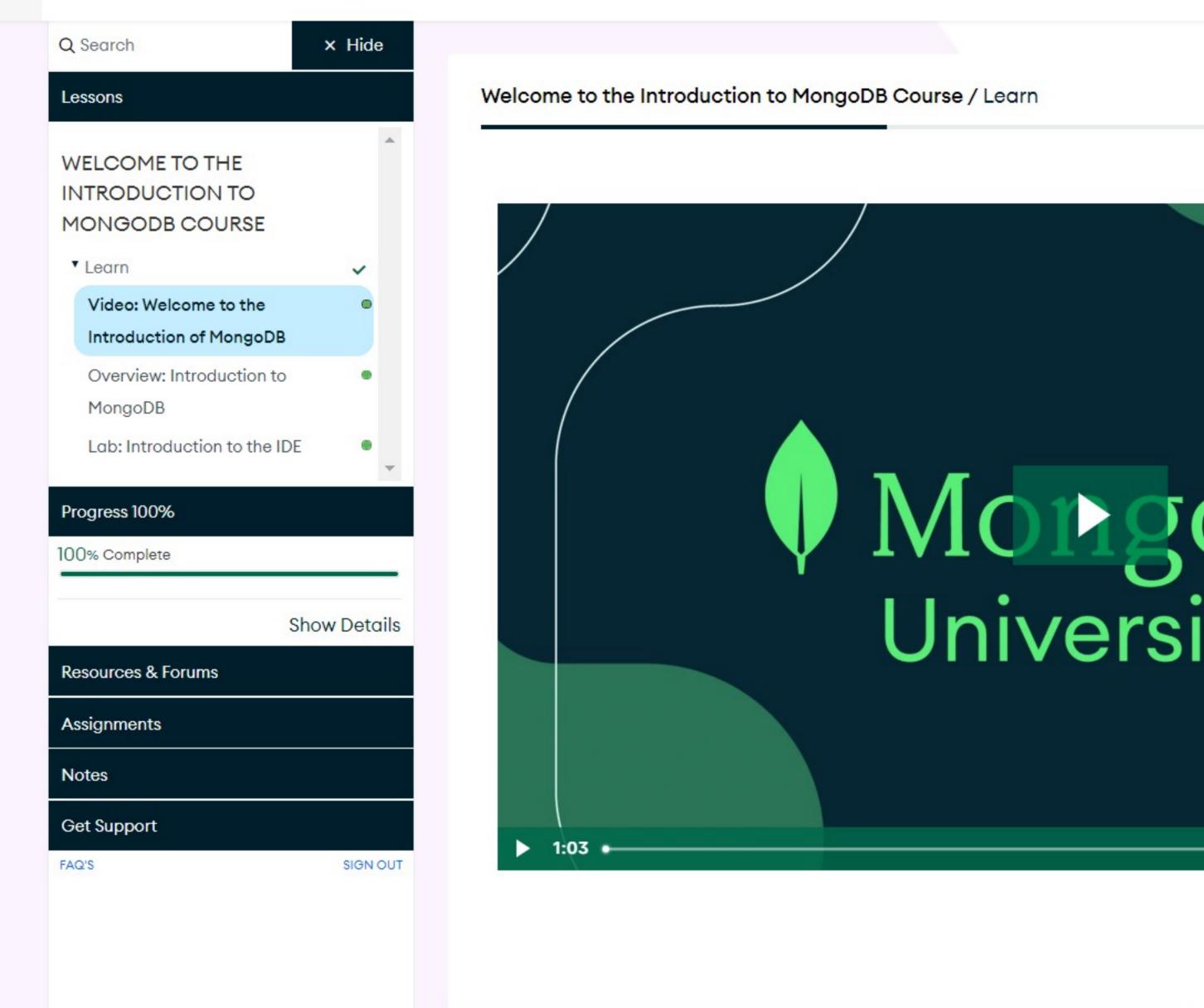
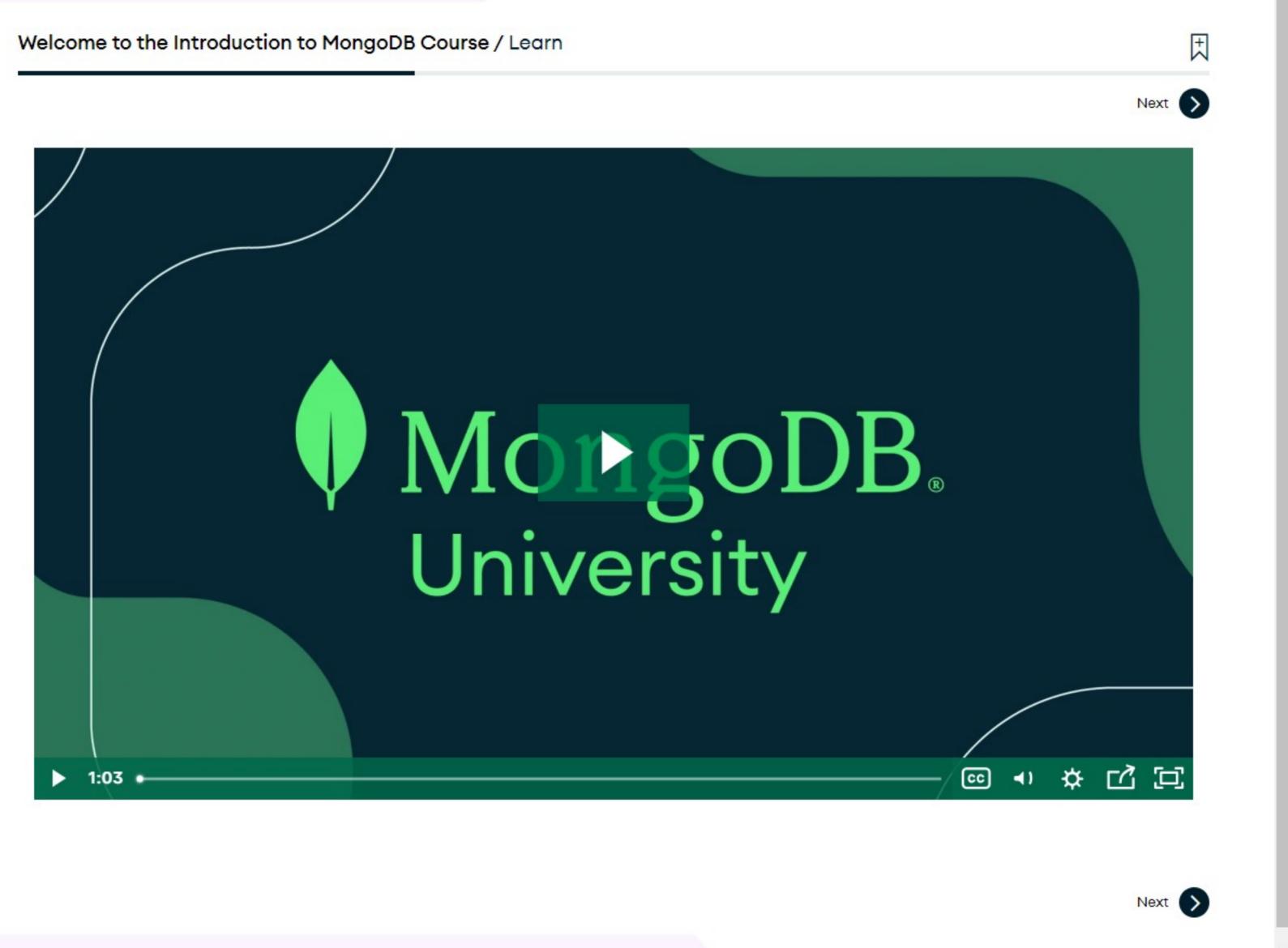
#### Start Here - Intro to MongoDB

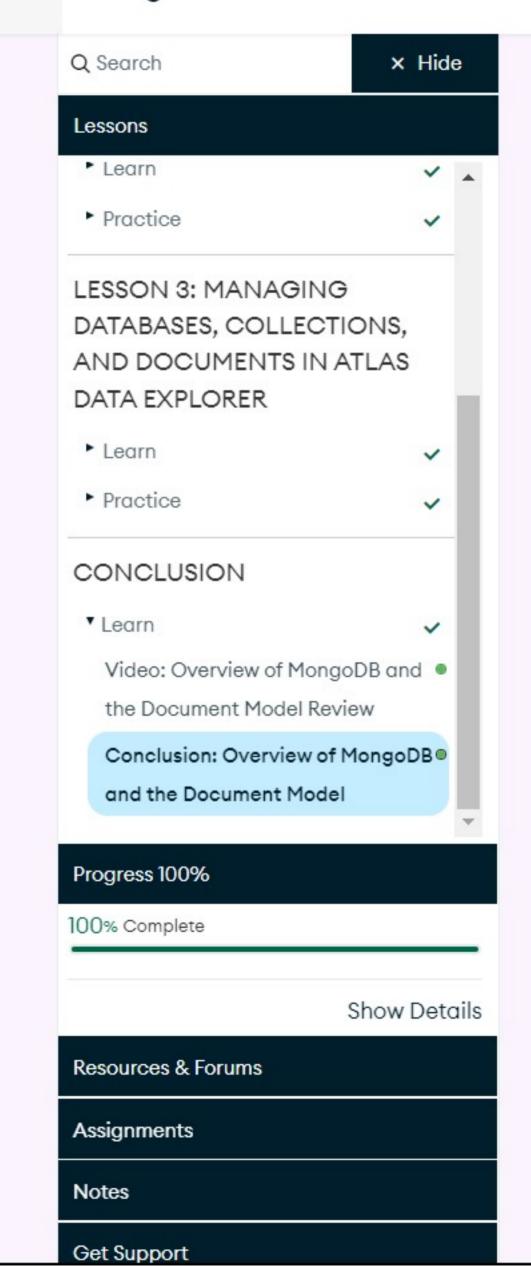






#### MongoDB and the Document Model





#### Conclusion / Learn



Previous

#### Overview of MongoDB and the Document Model

In this unit, you learned about the relationship between MongoDB and Atlas. MongoDB is a general-purpose database that can be used for a variety of use cases. It's part of Atlas, the developer data platform. You also learned about the MongoDB document model. Specifically, you learned about these key features:

- · Data is organized into documents, collections, and databases.
- Documents are stored in BSON, which supports a large range of data types, including all JSON data types, dates, numbers, and ObjectIds.
- Every document requires an \_id field, which acts as a primary key or unique identifier. If an inserted document doesn't have an \_id field,
   MongoDB automatically generates one.
- · MongoDB has a flexible schema, which means that documents with different structures can be stored in the same collection.

Finally, you learned how to use Atlas Data Explorer to create a database, collection, and a document and begin storing your own data.

#### Resources

Use the following resources to learn more about inserting and finding documents in MongoDB:

Lesson 01: Introduction to MongoDB

- What Is MongoDB?
- MongoDB Use Cases

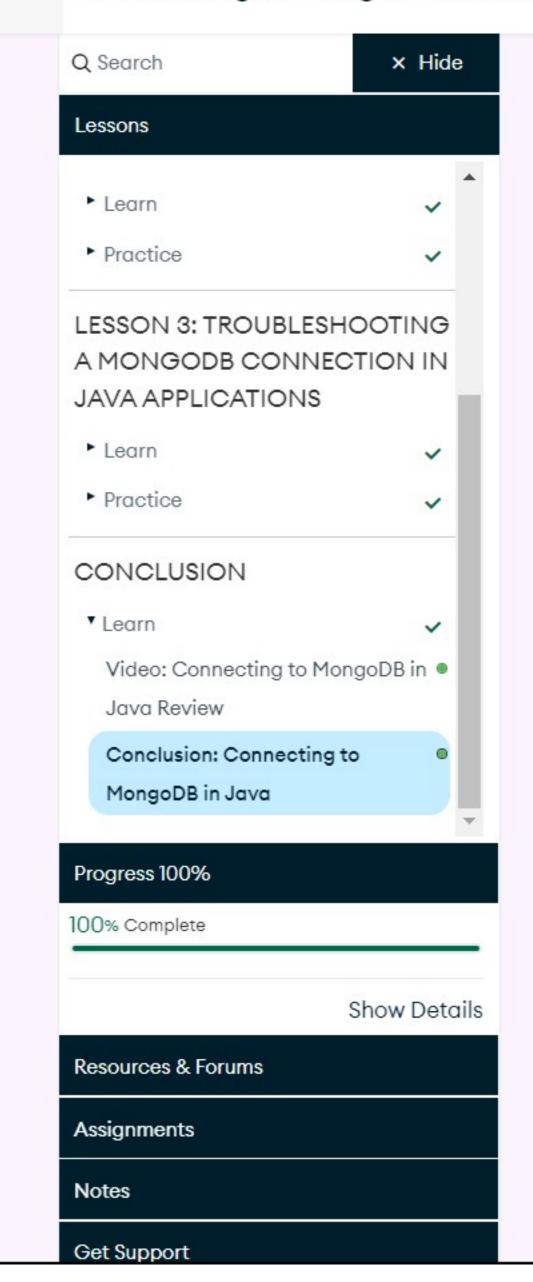
Lesson 02: The MongoDB Document Model

- MongoDB Docs: Documents
- MongoDB Docs: BSON Types
- · Explaining BSON with Examples
- JSON and BSON

Lesson 03: Managing Databases, Collections, and Documents in Atlas Data Explorer

#### Connecting to MongoDB in Java





# Conclusion / Learn Previous Next

#### Connecting to MongoDB in Java

In this unit, you learned how to:

- Install the MongoDB Java driver by using Maven.
- · Connect to an Atlas cluster from a Java application.
- · Use a MongoClient instance.
- · Troubleshoot common connection issues when using the MongoDB Java driver.

#### Resources

Use the following resources to learn more about using the MongoDB driver to connect your Java application to MongoDB:

#### Lesson 01: Using MongoDB Java Client Libraries

- MongoDB Drivers
- · MongoDB Java Driver Docs

#### Lesson 02: Connecting to an Atlas Cluster in Java Applications

- MongoDB Docs: Get Connection String
- · MongoDB Docs: Connection String Format
- · MongoDB Java Connection to Atlas

#### Lesson 03: Troubleshooting a MongoDB Connection in Java Applications

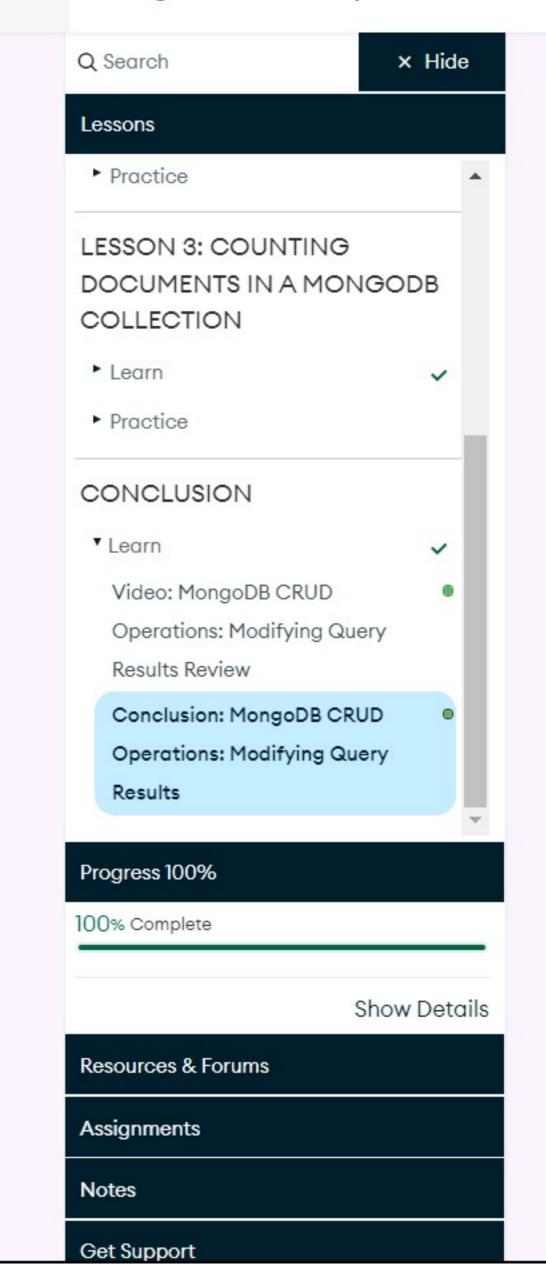
MongoDB Docs: Troubleshoot Connection Issues

#### Using MongoDB with Java Course

By completing this unit, you've taken a step toward completing the Using MongoDB with Java course.

#### MongoDB CRUD Operations: Modifying Query Results





#### Conclusion / Learn



Previous

#### MongoDB CRUD Operations: Modifying Query Results

In this unit, you learned how to modify query results with MongoDB. Specifically, you learned how to:

- Return query results in a specified order by using cursor.sort().
- Constrained the number of results returned by using cursor.limit().
- Specified fields to return by adding a projection document parameter in calls to db.collection.find().
- Counted the number of documents that match a query by using db.collection.countDocuments().

#### Resources

Use the following resources to learn more about modifying query results in MongoDB:

Lesson 01: Sorting and Limiting Query Results in MongoDB

- MongoDB Docs: cursor.sort()
- MongoDB Docs: cursor.limit()

Lesson 02: Returning Specific Data from a Query in MongoDB

- MongoDB Docs: Project Fields to Return from Query
- MongoDB Docs: Projection Restrictions

Lesson 03: Counting Documents in a MongoDB Collection

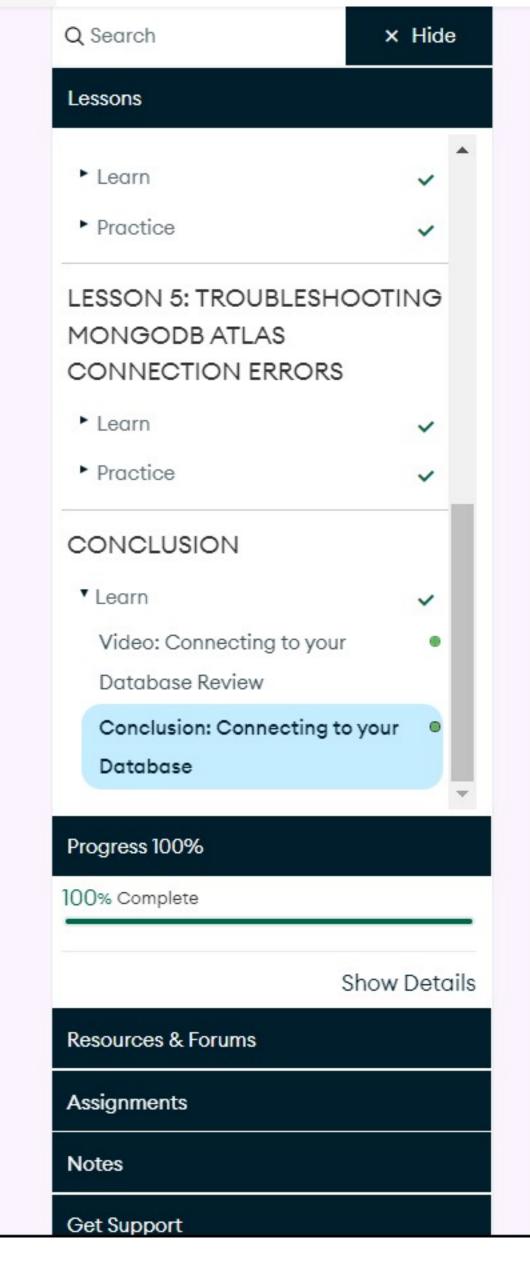
MongoDB Docs: db.collection.countDocuments()

#### **Associate Certification Course**

If you're interested in continuing your journey toward the Associate Developer Certification evant the next step is to review the following units:

#### Connecting to a MongoDB Database





# Conclusion / Learn Previous Next

#### Connecting to a MongoDB Database

In this unit, you learned how to connect to Atlas by using:

- The MongoDB Shell
- MongoDB Compass
- Applications

Finally, you learned how to troubleshoot some common connection problems that can occur.

#### Resources

Use the following resources to learn more about connecting to your database.

Lesson 01: Using MongoDB Connection Strings

- MongoDB Docs: Get Connection String
- MongoDB Docs: Connection String URI Format

Lesson 02: Connecting to a MongoDB Atlas Cluster with the Shell

MongoDB Docs: The MongoDB Shell

Lesson 03: Connecting to a MongoDB Atlas Cluster with Compass

MongoDB Docs: MongoDB Compass

Lesson 04: Connecting to a MongoDB Atlas Cluster from an Application

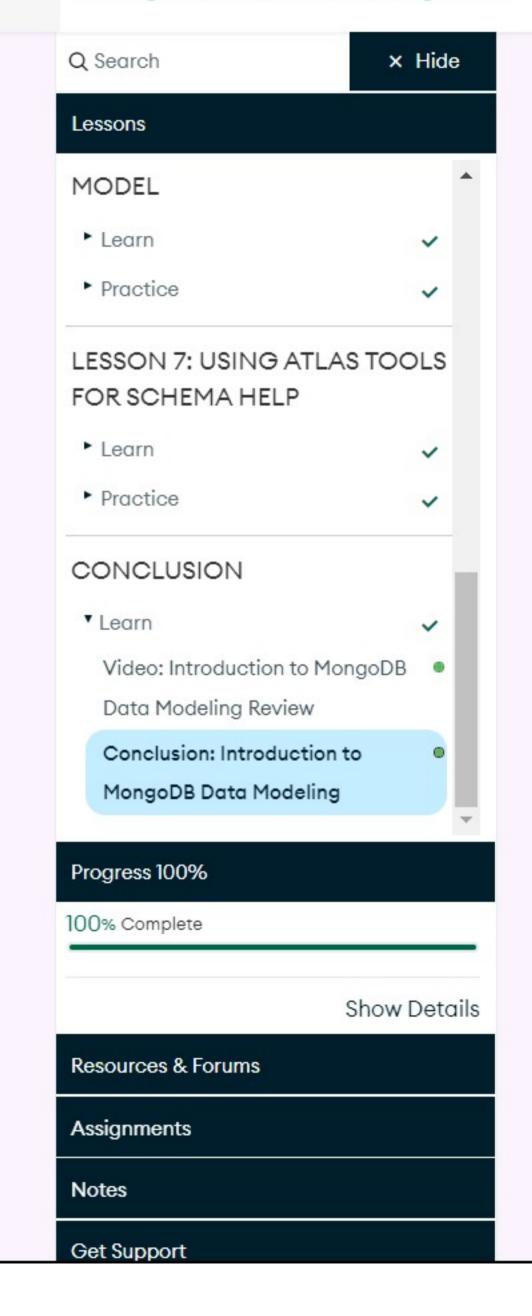
• MongoDB Docs: Connect via Your Application

Lesson 05: Troubleshooting MongoDB Atlas Connection Errors

MongoDB Docs: Troubleshoot Connection Issues

#### MongoDB Data Modeling Intro





#### Conclusion / Learn



#### Introduction to MongoDB Data Modeling

In this unit, you learned how to:

- · Explain the purpose of data modeling.
- · Identify the types of data relationships (one to one, one to many, many to many).
- Model data relationships.
- · Identify the differences between embedded and referenced data models.
- · Scale a data model.
- · Use Atlas Tools for schema help.

#### Resources

Use the following resources to learn more about the basics of data modeling:

#### Lesson 01: Introduction to Data Modeling

- Data Modeling Introduction
- Separating Data That is Accessed Together

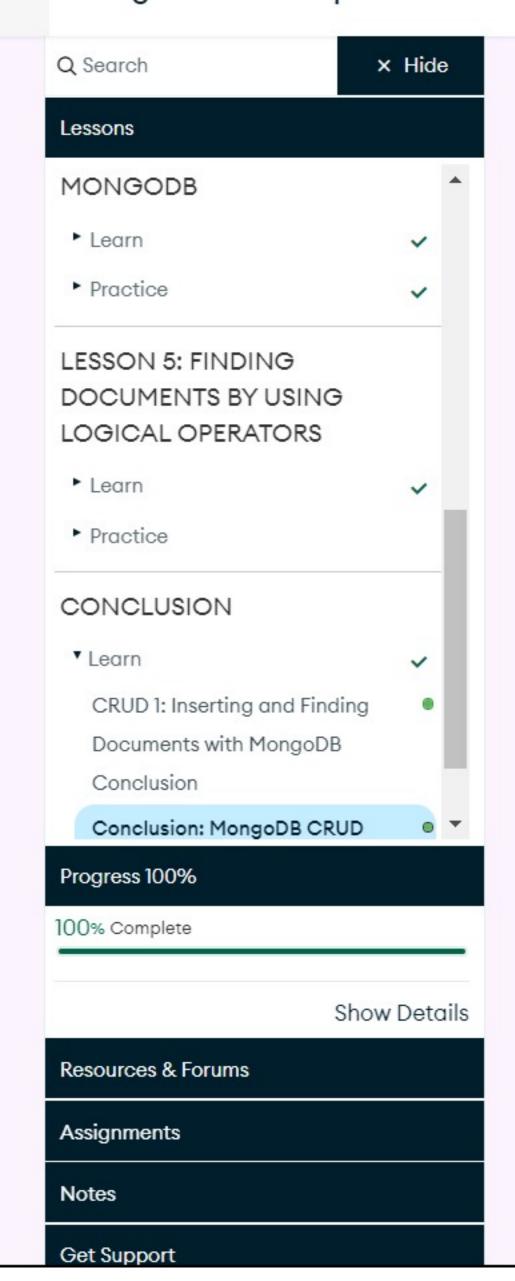
#### Lesson 02: Types of Data Relationships

- Data Model Design
- Model Relationships Between Documents
- Embedding MongoDB
- MongoDB Schema Design Best Practices

#### Lesson 03: Modeling Data Relationships

- Data Model Design
- Model Relationships Between Documents

Losson O4. Embadding Data in Dooumant





• \$1t (less than)

• \$gt (greater than)

- \$1te (less than or equal to)
- \$gte (greater than or equal to)

You also used the following logical operators:

- \$and
- \$or

Finally, you learned how to query elements in an array and how to use the \$elemMatch operator.

#### Resources

Use the following resources to learn more about inserting and finding documents in MongoDB:

Lesson 01: Inserting Documents in a MongoDB Collection

- MongoDB Docs: insertOne()
- MongoDB Docs: insertMany()

Lesson 02: Finding Documents in a MongoDB Collection

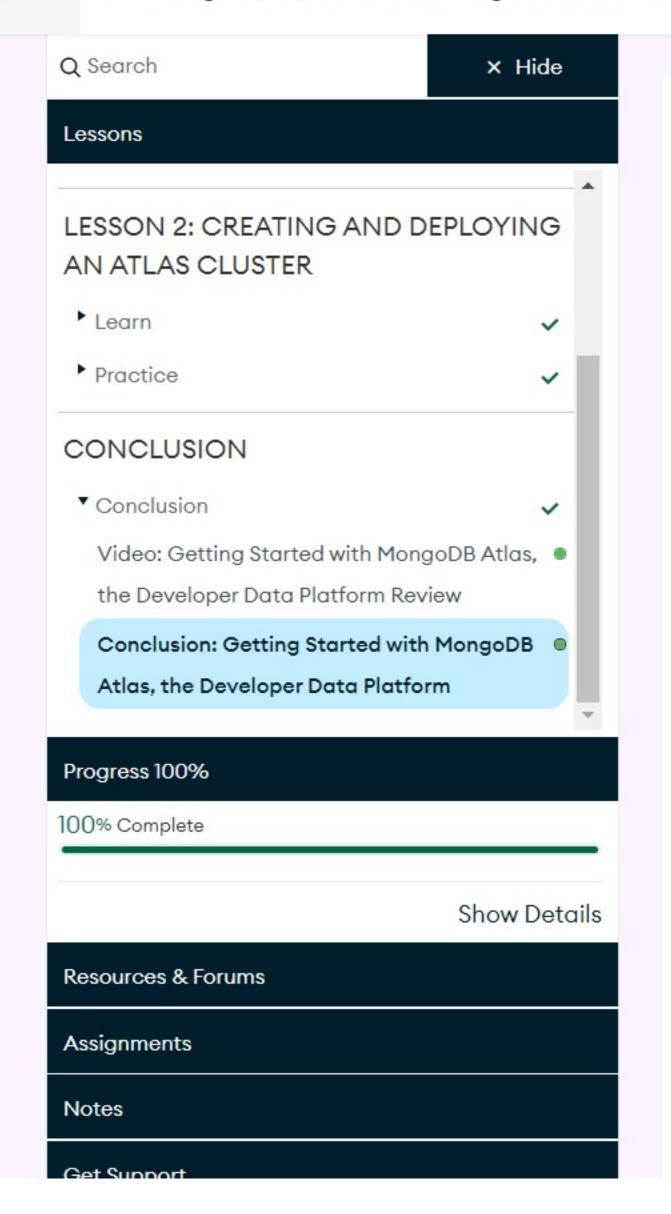
- · MongoDB Docs: find()
- · MongoDB Docs: \$in

Lesson 03: Finding Documents by Using Comparison Operators

MongoDB Docs: Comparison Operators

#### Getting Started with MongoDB Atlas





#### Conclusion / Conclusion



Next >



#### Getting Started with MongoDB Atlas, the Developer Data Platform

In this unit, you learned that MongoDB Atlas is a developer data platform that stores your data in Atlas clusters, a global, multi-cloud database service. You also learned that the developer data platform has many features that enable you to build a wide variety of applications.

You created a free Atlas account and deployed a free tier Atlas cluster by doing the following:

- Chose a shared cluster.
- · Chose a major cloud provider to host your cluster.
- Used the region recommended by MongoDB as the location of database deployment.
- · Prepared to connect to your cluster by adding a database user and password and an IP address to the IP Access list

Finally, you successfully loaded sample data into your cluster and found a document in a collection by using Data Explorer.

#### Resources

Use the following resources to learn more about inserting and finding documents in MongoDB:

Lesson 01: Introduction to MongoDB Atlas, the Developer Data Platform

- MongoDB Docs: MongoDB Clusters
- MongoDB Docs: MongoDB Atlas

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### Elysson Alves

For successfully completing

MongoDB CRUD Operations: Modifying Query Results

On 11-25-2023

Sahir Azam CPO



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MongoDB CRUD Operations: Insert and Find Documents

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