MongoDB: A Developer Data Platform

Course Overview

This course provides an introduction to the developer data platform, an integrated suite of cloud database and data services designed to help developers build modern applications. The course covers the elements of a modern general purpose database and provides a close look at the popular cloud product, MongoDB Atlas. Key database concepts such as horizontal scaling, sharding, workload isolation, and data federation are also included.

Length: 2-3 hours
Level: Beginner to Intermediate

Course Content
All course content can be accessed in the [Google Drive folder](#).
The course is formatted into three lessons:

- What is a Modern General Purpose Database?
- MongoDB: A Developer Data Platform
- MongoDB Atlas

The lessons do not need to be taught in a particular order though they do complement each other and build upon similar concepts. The lessons are formatted on slide decks with detailed instructor notes. There are also corresponding PDF versions available to download. Quiz questions with explained answers on key concepts are embedded throughout the lessons to enhance knowledge retention.
The materials are freely available for non-commercial use and are licensed under Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported [License](#).

Learning Objectives
At the end of this course, learners will be able to:

- Describe the elements of a modern general purpose database
- Describe how the developer data platform supports storing, accessing, and processing data
- Identify the functionality of MongoDB Compass
- Identify the features of MongoDB Atlas
- Define workload isolation, data federation, and horizontal scaling

Prerequisite Knowledge
This course is designed for introductory-level learners. General knowledge of relational and non-relational databases may be helpful, but is not necessary.

Suggested Uses
The course materials can be incorporated into your curriculum in a variety of ways:
- Slide decks can be easily used during lecture classes.
- The PDF handouts can be used for asynchronous learning or as supplemental material to be completed outside of class.
- Lessons can be combined with self-paced online learning and labs. Each lesson includes suggestions for complementary learning content.
- The slides and handouts can be used for self-paced learning for students and educators alike.

Share Your Feedback
We hope these curriculum materials will be a valuable resource for you and your learners. Let us know how the materials work for you, what we can improve on, and how MongoDB for Academia can support you via our brief feedback form.

MongoDB for Academia
MongoDB for Academia offers resources for educators and students to support teaching and learning MongoDB. Check out our educator resources and join the Educator Community. Students can receive $50 in Atlas credits and free certification through the Github Student Developer Pack.

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