

MongoDB Essentials

Duration: 2 Days Course Code: MONGOE Delivery Method: Company Event

Overview:

The MongoDB Essentials course is designed to give delegates experience of installing and using the MongoDB database. This hands-on course introduces delegates to the concept of a document-oriented database then shows how to set up MongoDB for use. Delegates use the built-in shell and various APIs to build a database access application and manipulate data. We also investigate optimising queries using indexes and aggregating data with MongoDB functions.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

This course is aimed at application developers who wish to use MongoDB to store, access and edit data.

Objectives:

- By the end of the course delegates should be able to:
- Install the MongoDB database
- Use the MongoDB shell to access the database
- Create,retrieve,update and delete data
- Use aggregation queries

- Appreciate the APIs used to interface with MongoDB
- Understand the document based structure of the database
- Use an API to develop applications
- Optimise queries with indexes

Prerequisites:

An understanding of programming and database principles would be beneficial.

Content:

MongoDB Essentials Training Course Course Session 3: DATA MODELLING AND DESIGN Session 7: USING AN API Contents - DAY 1 Data Storage Introducing Drivers Working with Datatypes Java PHP Course Introduction Collections Document Datatypes Ruby Administration and Course Materials Creating _id Fields Python Course Structure and Agenda Session 4: QUERYING DATA Session 8: HIGH PERFORMANCE OPTIONS Delegate and Trainer Introductions Session 1: NOSQL DATABASES Databases and Collections Creating Indexes Querying Collections Manipulating Index Behaviour What are NoSQL Databases? Working with Operators Index Properties Common Database Features Referencing a Database Specialised Index Types NoSQL Versus Relational Approach Querying Dates MongoDB Replication Types of NoSQL Databases Essentials Training Course Course Sharding Data Storage Contents - DAY 2 Transaction Handling Session 5: THE AGGREGATION Key Features **FRAMEWORK** Session 2: INSTALLING MONGODB Aggregating Results Downloading in the Required Software Single Purpose Functions Installing MongoDB ■ The Aggregation Pipeline Configuration Files Date Aggregation Operators Touring the File Structure Securing the Installation Session 6: MANIPULATING DATA Inserting Data into Collections Updates Deletes Atomic Operations Removing Data Capped Collections

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

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