

MongoDB Essentials

Duration: 2 Days Course Code: MONGOE

Delivery Method: Virtual Learning

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.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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 Contents - DAY 1	Session 3: DATA MODELLING AND DESIGN	Session 7: USING AN API
	Data Storage	Introducing Drivers
	Working with Datatypes	Java
Course Introduction	Collections	PHP
	Document Datatypes	Ruby
Administration and Course Materials	Creating _id Fields	Python
Course Structure and Agenda		
Delegate and Trainer Introductions	Session 4: QUERYING DATA	Session 8: HIGH PERFORMANCE OPTIONS
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		
Key Features	Session 5: THE AGGREGATION	
	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

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