MongoDB Essentials

Duration: 2 Days **Course Code: MONGOE**

Overview:

MongoDB Essentials Course Overview

English - Please note this course is only available in English.
Nederlands - Let op: deze training is alleen in het Engels beschikbaar.
Français - Veuillez noter que ce cours est uniquement disponible en anglais.
The MongoDB Essentials course is designed to give delegates experience of installing and using the MongoDB database. This hands-on course introduce

Target Audience:

Who will the Course Benefit?

Objectives:

- Course 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

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: NOSQL DATABASES

- What are NoSQL Databases?
- Common Database Features
- NoSQL Versus Relational Approach
- Types of NoSQL Databases
- Data Storage
- Transaction Handling
- Key Features

Session 2: INSTALLING MONGODB

- Downloading in the Required Software
- Installing MongoDB
- Configuration Files
- Touring the File Structure
- Securing the Installation

Session 3: DATA MODELLING AND DESIGN

- Data Storage
- Working with Datatypes
- Collections
- Document Datatypes
- Creating _id Fields

Session 4: QUERYING DATA

- Databases and Collections
- Querying Collections
- Working with Operators
- Referencing a Database
- Querying Dates MongoDB Essentials Training Course Course Contents - DAY 2

Session 5: THE AGGREGATION FRAMEWORK

- Aggregating Results
- Single Purpose Functions
- The Aggregation Pipeline
- Date Aggregation Operators

Session 6: MANIPULATING DATA

- Inserting Data into Collections
- Updates
- Deletes
- Atomic Operations
- Removing Data
- Capped Collections

Session 7: USING AN API

- Introducing Drivers
- Java
- PHP
- Ruby
- Python

Session 8: HIGH PERFORMANCE OPTIONS

- Creating Indexes
- Manipulating Index Behaviour
- Index Properties
- Specialised Index Types
- Replication
- Sharding

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/