



Consulting and Training | Reach New Heights

Course Name

MongoDB

Sector Name

Information Technology

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MongoDB

Course Introduction

A multitude of new databases are created every year. MongoDB has found a home in so many different businesses and functions because it does a great job solving many longstanding problems in data management and software development.

This training course is designed to provide participants with the foundational concepts of MongoDB and how its document-oriented nature allows the quick building of highly scalable applications. Through the topics, participants will learn skills to develop, administer, secure, and scale MongoDB-based applications, and acquire low-cost, data-driven applications with MongoDB as the back-end database.

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Target Audience

- ✓ Cloud Computing Engineer
- ✓ Computer Network Specialist
- ✓ Computer Support Specialist
- ✓ Database Administrator
- ✓ Information Technology Analyst
- ✓ Information Technology Leadership
- ✓ Information Security Specialist
- ✓ Software/Application Developer
- ✓ Web Developer
- ✓ Technology sales consultant

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Learning Objectives

- ✓ Develop highly scalable and cost-efficient applications with MongoDB
- ✓ Build efficient MongoDB data models for enterprise-scale applications
- ✓ Enhance performance with indexing and sharding
- ✓ Manage consistency with write concern and read preference
- ✓ Process data and compute results with aggregation pipelines and MapReduce

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Course Outline

✓ Day 01

Recognizing The Need For NoSQL Data Stores

- ✓ Justifying non-relational data stores
- ✓ Listing the categories of NoSQL Data Stores
- ✓ Focusing on MONGODB
- ✓ Defining the MongoDB architecture
- ✓ Reviewing the JSON standard
- ✓ Enumerating the MongoDB data types

Interacting With MongoDB

- ✓ Querying at the Command Line Interface
- ✓ Running Scripts
- ✓ Manipulating MongoDB data from Python and Java

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Course Outline

✓ Day 02

Surveying Cluster Topology

- ✓ Creating a standalone mongod
- ✓ Achieving redundancy with replica sets
- ✓ Replicating data with the oplog

Dissecting MongoDB Storage Strategies

- ✓ Identifying storage engines
- ✓ Improving data safety with journaling
- ✓ Investigating record allocation strategies
- ✓ Storing large files with GRIDFS
- ✓ Weighing the advantages and disadvantages of GridFS
- ✓ Leveraging the mongofiles utility tool
- ✓ Compressing data for economy of drive space

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Course Outline

✓ Day 03

Organizing Data

- ✓ Storing data in Databases, collections, and documents
- ✓ Inserting and updating Documents
- ✓ Running scripts from the Mongo Shell

Querying Documents

- ✓ Restricting find() with a query document
- ✓ Specifying keys for queries to return
- ✓ Constraining the number of results with limit and skip

Modeling Relationships

- ✓ Express relationships using references
- ✓ Embedding sub-documents

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Course Outline

✓ Day 04

Configuring Read And Write Consistency

- ✓ Reading from primary and secondary nodes
- ✓ Setting the read preference level
- ✓ Selecting the Appropriate Write Concern
- ✓ Writing with a timeout

Customizing Write Concern And Read Preference

- ✓ Applying tags to replicas
- ✓ Adding logical names to write concerns
- ✓ Reading from a tagged MongoDB

Leveraging The Different Modes Of The Aggregation Framework

- ✓ Invoking single-purpose aggregation functions
- ✓ Performing operations with the Aggregation Pipeline framework
- ✓ Executing MapReduce on MongoDB

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Course Outline

✓ Day 05

Improving Access Speed With Indexes

- ✓ Investigating a query with the explain() function
- ✓ Getting statistics from explain()
- ✓ Choosing an index with the hint() function

Considering The Cost And Benefit of Indexing

- ✓ Designing a better index
- ✓ Opting out of using an index
- ✓ Profiling to identify slow queries

Taking Advantage of Indexes

- ✓ Sorting and finding ranges with an index
- ✓ Guaranteeing uniqueness with indexes
- ✓ Skipping missing fields with a sparse index

Managing Collections With Special Indexes

- ✓ Aging data out of a capped collection
- ✓ Searching for text fragments with \$text
- ✓ Deleting documents automatically using time-to-live indexes

✓ Permitting queries by location

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 12, 2027	July 16, 2027	5 days	4950.00 \$	Spain , Barcelona
Oct. 12, 2026	Oct. 16, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai
July 18, 2027	July 22, 2027	5 days	4250.00 \$	Bahrain , Manama

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