Introduction to MongoDB for Developers (TTDB4683)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Introduction to MongoDB for Developers®is a hands-on course that provides students with comprehensive coverage of and hands-on experience with the MongoDB query language and aggregation framework, data modeling, indexes, drivers, basic performance tuning, high availability and scaling. Throughout the course, students will explore the MongoDB Atlas database environment.

About This Course

Geared for experienced developers, Introduction to MongoDB for Developers is a hands-on course that provides students with comprehensive coverage of and hands-on experience with the MongoDB query language and aggregation framework, data modeling, indexes, drivers, basic performance tuning, high availability and scaling. Throughout the course, students will explore the MongoDB Atlas database environment.

Who Should Attend

This introductory-level course is for experienced application developers new to MongoDB

Prerequisites & Entry Requirements

General Prerequisites:

This introductory-level course is for experienced application developers new to MongoDB. In order to gain the most from this course, you should have:

-Basic programming experience. Course examples leverage basic Java syntax, so experience with Java or another OO language will be helpful.

-Prior experience working with databases (Such as MySQL, etc.)

-Experience working in Linux and / or be comfortable working from the command line.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This skills-focused course is about 50% hands-on lab to lecture ratio, combining expert lecture, real-world demonstrations and group discussions with machine-based practical labs and exercises. Working in a hands-on learning environment led by our expert instructor, you'll explore:

-Storage Basics

-MongoDB Document Model

-MongoDB Setup

-CRUD: Basics through Advanced Concepts

-Performance: Basics through Advanced Concepts

-Aggregation: Basics through Advanced Concepts

-Replication: Basics through Advanced Concepts

-Sharding: Basics through Advanced Concepts

-Schema Design

-Security Basics, Authentication & Authorization

-Application Development and Drivers

Detailed Course Outline

Storage Basics

What is a Storage Engine

WiredTiger Storage Engine

In-Memory Storage Engine

Encrypted Storage Engine

MongoDB Document Model

JSON and BSON

MongoDB Data Types

MongoDB Setup

Atlas Setup / Local MongoDB Setup

CRUD Basics

Insert Command

Find Command

Query Operators

Lab: Finding Documents

Remove Command

Updating Documents

CRUD Advanced

Bulk Writes

Retryable Writes

Find and Modify

Transactions

Performance Basics

Indexes

Aggregation Basics

Aggregation Pipeline Concepts

Aggregation Pipeline Stages

Aggregation Pipeline Expressions

Aggregation Advanced

$lookup stage

$graphLookup stage

$expr operator

Faceted Search

Type Conversions

Advanced Expression Operators

Date Expression Operators

Expression Variables

Aggregation Pipeline Optimizations

Aggregation in a Sharded Cluster

Replication Basics

MongoDB Replica Sets

Replica Set Use Cases

Replication Mechanics

Replication Advanced

Using Write Concern to Tune Durability Semantics

Using Read Concern to Tune Read Isolation

Using Read Preference

Replica Set Tag Sets

Sharding Basics

Sharding Concepts

When to Shard

What is a Shard Key

Zoned Sharding / MongoDB Atlas Global Clusters

Sharding Advanced

Components of a Sharded Cluster

Sharding Mechanics

Choosing a Good Shard Key

Schema Design

Schema Design Core Concepts

Common Patterns

Lab: Data Model for an E-Commerce Site

Security Basics

Authentication & Authorization

Network Encryption

Encryption at Rest

Auditing

Application Development and Drivers

Application Development with MongoDB Drivers

Performance Advanced

Designing Compound Indexes

Indexing Arrays

Covered Queries

Using hint() and Index Filters

Additional Course Details

Nexus Humans Introduction to MongoDB for Developers (TTDB4683) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction to MongoDB for Developers (TTDB4683) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction to MongoDB for Developers (TTDB4683)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to MongoDB for Developers (TTDB4683) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to MongoDB for Developers (TTDB4683) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to MongoDB for Developers (TTDB4683)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to MongoDB for Developers (TTDB4683). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: MongoDB; Databases

Q: Why choose Nexus Human for Introduction to MongoDB for Developers (TTDB4683)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to MongoDB for Developers (TTDB4683) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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