Pragati Software Pvt. Ltd.

QUALITY, AGILITY, ADAPTABILITY

Corporate IT Training House

Course Title: MongoDB — Duration : 2 Days

MongoDB is a leading NoSQL database solution. It uses a flexible schema, and stores data as JSON documents. MongoDB has a distributed architecture that can work with a large number of commodity servers in a cluster, and it supports partitioning (sharding) of data across servers as well as master-slave replication of data. As a result of these features, MongoDB is highly scalable, highly available with no single point of failure, and can store humongous volumes of data reliably and cost-economically.

This is a Two-days beginner to intermediate level program that gives the developers, data modelers and architects a good understanding of working with MongoDB using the MongoDB shell as well building applications using MongoDB Java driver. The program uses a blend of hands-on work and conceptual learning.

Course Objectives

On completion of this program, the participants will have a good understanding of:

- Setting up MongoDB
- Working with collections and documents
- Inserting, updating, deleting and querying data
- Developing applications using MongoDB Java driver
- Introduction to replication and sharding in MongoDB clusters

Audience

Software developers, data modelers, application architects, solution architects.

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Course Outline

Module 1: Introduction to MongoDB

- What is MongoDB?
- Collections and documents
- Comparison with RDBMS

Module 2: Getting Started with MongoDB

- Downloading MongoDB
- Installing MongoDB
- Starting MongoDB services
- Basic configuration settings

Module 3: CRUD Operations

- Inserting documents
- Sub-documents
- Querying documents with conditions
- Queries with projections
- Using various operators
- Sort, limit operations
- Updating documents
- Upsert operations
- Deleting documents
- Importing and exporting data
- Creating indexes

Module 4: Aggregation Framework

- Aggregation concepts
- Aggregation pipeline
- Creating and using views

Module 5: MongoDB Drivers

- Introduction to MongoDB drivers and client libraries
- Examples of building applications using Java drivers

Module 6: Replication and Sharding

- Understanding replication
- Replica sets
- Concepts of sharding