Day 1: Introduction to MongoDB 1.1. Welcome and Course Overview 1.2. What is MongoDB? 1.3. MongoDB vs. Traditional Databases 1.4. Installation and Setup 1.5. Basic CRUD Operations

Day 2: MongoDB Data Modeling 2.1. Schema Design Best Practices 2.2. Data Types in MongoDB 2.3. Document Structure and Embedding 2.4. Indexing and Query Optimization 2.5. Working with Collections and Documents

Day 3: Advanced Querying and Aggregation 3.1. Querying with MongoDB Query Language (MQL) 3.2. Filtering, Sorting, and Projection 3.3. Aggregation Framework Introduction 3.4. Pipeline Stages and Expressions 3.5. Real-world Query Examples

Day 4: MongoDB CRUD Operations 4.1. Create and Insert Documents 4.2. Reading and Querying Documents 4.3. Updating Documents 4.4. Deleting Documents 4.5. Bulk Operations and Write Concerns

Day 5: MongoDB Indexing and Performance 5.1. Index Types and Creation 5.2. Index Strategies and Optimization 5.3. Profiling and Performance Tuning 5.4. Monitoring Tools and Metrics 5.5. Handling Large Data Sets

Day 6: MongoDB Administration and Security 6.1. MongoDB Deployment Options 6.2. Backup and Restore Strategies 6.3. Security Best Practices 6.4. User Authentication and Authorization 6.5. Managing Replication and Sharding

Day 7: Advanced Topics and Best Practices 7.1. Geospatial Queries and Indexing 7.2. Time Series Data Modeling 7.3. MongoDB Atlas and Cloud Deployment 7.4. Integration with Programming Languages 7.5. Certification and Future Steps