

NoSQL Databases and MongoDB

Learn the fundamentals of NoSQL databases and gain hands-on experience with MongoDB.

Category: Programming · Duration: 3 days

WHO IT IS FOR

- Developers and DBAs who work with data every day
- Project managers, Scrum masters and team leads
- Teams that want hands-on practice on real scenarios

This comprehensive training program covers the basics of NoSQL databases and explores various concepts and techniques using MongoDB. Participants will learn how to design, implement, and optimize NoSQL solutions, and understand the advantages and challenges of using MongoDB in real-world applications.

Prerequisites

Basic understanding of databases and SQL

Syllabus

- Introduction to NoSQL databases
- Overview of MongoDB architecture
- Installation and setup of MongoDB
- CRUD operations in MongoDB
- Querying and indexing in MongoDB
- Data modeling in NoSQL
- Aggregation and pipeline operations
- Replication and sharding in MongoDB
- Data backup and recovery
- Performance tuning and optimization
- Security considerations
- Integration with programming languages
- Case studies and real-world examples
- Best practices for NoSQL development
- Hands-on exercises and lab sessions