

## **Introduction to NoSQL, JSON and BSON**

Getting started with the NOSQL databases where you can store the data item individually with a unique key rather than rows and column structure of RDBMS. You will be introduced to JSON and BSON formats of storing the data.

- Introduction to Nosql.
- Difference between RDBMS to NOSQL.
- JSON and BSON documents.

## **MongoDB Introduction**

Acquire the basic knowledge of storing data in the form of collections and documents. You will be introduced to the Mongo Shell. Also, you will get to know the terminologies used in MongoDB.

- Introduction to MongoDB and its Features
- Database, Collection and Documents
- Various Data Types in MongoDB
- Introduction to mongo shell
- Introduction to robo mongo

## **CRUD Operations**

CRUD operations like how to create, read, update and delete the data of any database. You will learn how to add collections and documents in any database using different modification queries.

- CRUD Operations
- Database Operations
- Read and Write Operations
- Aggregation

## **Data Modeling**

Designing the schema and the structure of the documents. You will learn how the documents can be stored in embedded form . Also, you will get to know about different data modeling concept.

- Data Modeling Introduction
- Data Modeling Concept

## **Administrative Commands & Performance**

Introduction to Administrative command. You will learn how to improve the performance of database

- Storage Engine
- Indexing

## **Replication**

Learn what replication is and how it provides high availability, and different replica set nodes with their components. You will also learn how to set up the replication environment. Also, you will get to know how to configure and reconfigure the replica sets.

- Replication Concept
- Failover & Recovery