For More Details Call +91 8368 979712, 63804 86914
Email ID – a1projecttraining@gmail.com

MongoDB Course Details

By **A1Training(PT)**

Course Name	MongoDB
Category	Database
Mode Of Classes	Online/Offline
Demo Classes	At Your Convenience
Training Methodology	20% Theory & 80% Practical
Course Duration	30-35 Hours
Class Availability	Weekdays & Weekends
For Demo Class	Call - +91-8368 979712, 63804 86914 Email ID – a1projecttraining@gmail.com

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Introduction to MongoDB

- NoSQL Databases
- CAP Theorem
- Features of MongoDB?
- Installation overview
- Documents
- Collections
- Databases
- Starting and stopping MongoDB

Introduction to Mongo Shell

- Basic commands in Mongo shell
- Data Types in Mongo shell
- Inserting and saving documents
    - Batch Insert
    - Insert Validation
- Removing documents
- Updating documents
    - Update top level fields
    - Update an embedded field
    - Update multiple documents
    - Replace a document

Querying data in Mongo Shell

- Introduction to find command
- Limitations in querying data
- Query for All Documents in a Collection
- Query by a Top Level Field
- Query by a Field in an Embedded Document
- Query by a Field in an Array
- Specify Conditions with Operators
- Combine Conditions

Data Aggregation

Indexes

Replication

Sharding

- Pipeline Operations
    - $match
    - $project
    - $group
    - $unwind
    - $sort
    - $limit
    - $skip
- Integrating MapReduce and MongoDB
    - Example 1: Finding All Keys in a Collection
    - Example 2: Categorizing Web Pages
- Aggregation Commands
    - $count

- $distinct
- $group
- Create a Single-Field Index
- Create a compound index.
- Indexing Embedded Documents
- Indexing Arrays
- When Not to Index
- Types of Indexes
    - Unique Indexes
- Sparse Indexes
- Introduction to Replication
- Replication in MongoDB
    - Replica Set Elections
    - Rollbacks during Replica set Failover
    - Heartbeats
    - Syncing
- Replica Set Members
    - Primary
    - Secondary
    - Arbitary
- Replica Set Read and Write Semantics
- Consistency Considerations
- Introduction to Sharding
- Purpose of sharding
- Sharded Cluster Components
- Sharding in MongoDB
- Data Partitioning
- Maintaining a Balanced Data Distribution
- Choosing a shard key
    - Shard Key Limitations and guidelines
- Adding shards from a replica set