

# MongoDb

## Assignments

1.

```
use universityDB
```

```
db.students.insertMany([  
  { roll: 101, name: "Arun", dept: "CSE", attendance: 90 },  
  { roll: 102, name: "Meera", dept: "ECE", attendance: 87 },  
  { roll: 103, name: "Vikram", dept: "MECH", attendance: 82 },  
  { roll: 104, name: "Divya", dept: "EEE", attendance: 89 },  
  { roll: 105, name: "Ravi", dept: "CIVIL", attendance: 85 }  
])
```

```
db.students.find().pretty()
```

```
db.students.updateOne(  
  { roll: 101 },  
  { $set: { attendance: 92 } }
```

)

```
db.students.deleteOne({ roll: 102 })
```

2.

```
use companyDB
```

```
db.employees.insertMany([
  { name: "Asha", dept: "Sales", salary: 50000 },
  { name: "Rahul", dept: "Tech", salary: 70000 },
  { name: "Neha", dept: "Tech", salary: 65000 },
  { name: "Sunil", dept: "Marketing", salary: 48000 },
  { name: "Divya", dept: "Sales", salary: 52000 },
  { name: "Ajay", dept: "HR", salary: 40000 }
])
```

```
db.employees.find({ dept: "Tech", salary: { $gt: 60000 } })
```

```
db.employees.find({}, { _id: 0, name: 1, dept: 1 })
```

```
db.employees.find({ dept: { $in: ["Sales", "Marketing"] } })
```

3.

```
// app.js
```

```
const { MongoClient } = require("mongodb");
```

```
const uri = "mongodb://localhost:27017"; // MongoDB URI
```

```
const client = new MongoClient(uri); // Create  
MongoClient instance
```

```
async function run() {
```

```
  try {
```

```
    // Connect to MongoDB
```

```
    await client.connect();
```

```
    // Access database and collection
```

```
    const db = client.db("employeeDB");
```

```
    const users = db.collection("users");
```

```
    // Insert one document
```

```
    await users.insertOne({ name: "Nina", role: "Admin" });
```

```
    // Fetch all users
```

```
    const allUsers = await users.find().toArray();
```

```
    console.log("All Users:", allUsers);
  } catch (error) {
    console.error("Error:", error);
  } finally {
    // Close the connection
    await client.close();
  }
}

// Run the function
run();
```

4.

use blogApp

```
db.blogs.insertMany([
  {
    title: "Learning MongoDB",
    author: "Ravi",
    content: "MongoDB is a NoSQL database that stores
data in JSON-like documents.",
```

```
tags: ["database", "NoSQL", "MongoDB"],
createdAt: new Date()
},
{
  title: "Getting Started with Express",
  author: "Asha",
  content: "Express.js is a minimal and flexible Node.js
web framework.",
  tags: ["Node.js", "Express", "Backend"],
  createdAt: new Date()
},
{
  title: "Understanding REST APIs",
  author: "Karan",
  content: "REST APIs allow communication between
client and server using HTTP.",
  tags: ["API", "REST", "Web"],
  createdAt: new Date()
}
])
```

```
db.blogs.updateOne(  
  { title: "Understanding REST APIs" },  
  { $set: { title: "REST APIs Explained" } }  
)
```

```
db.blogs.deleteOne({ author: "Ravi" })
```