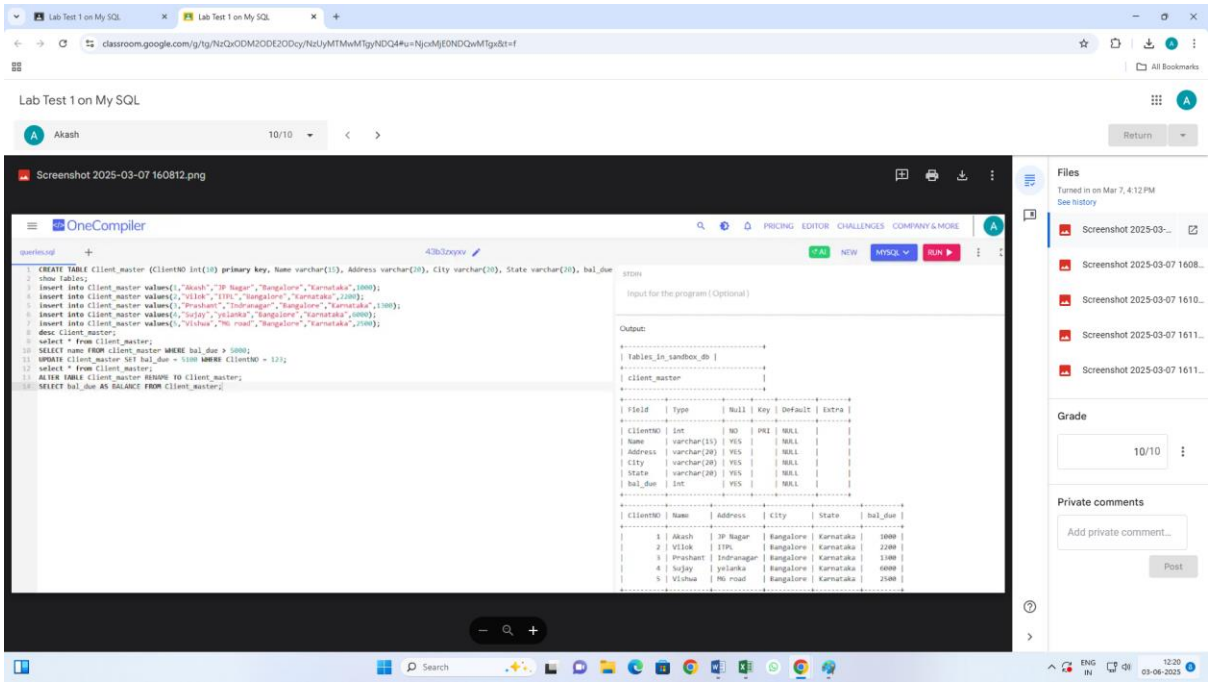
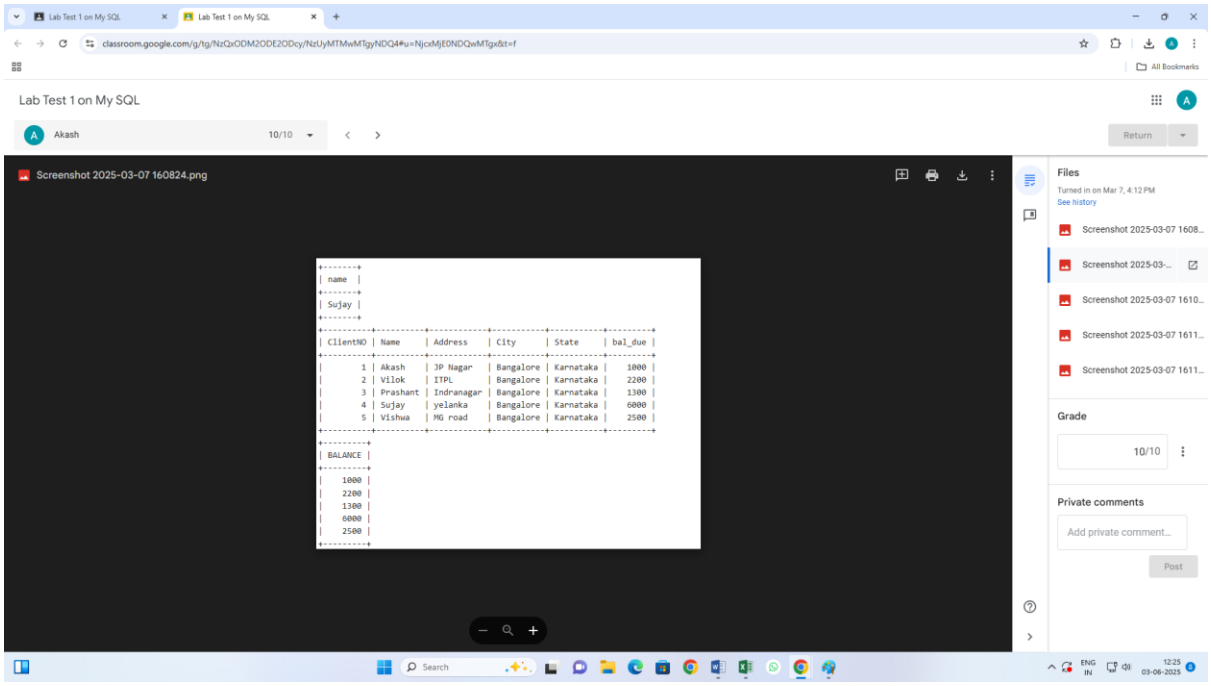
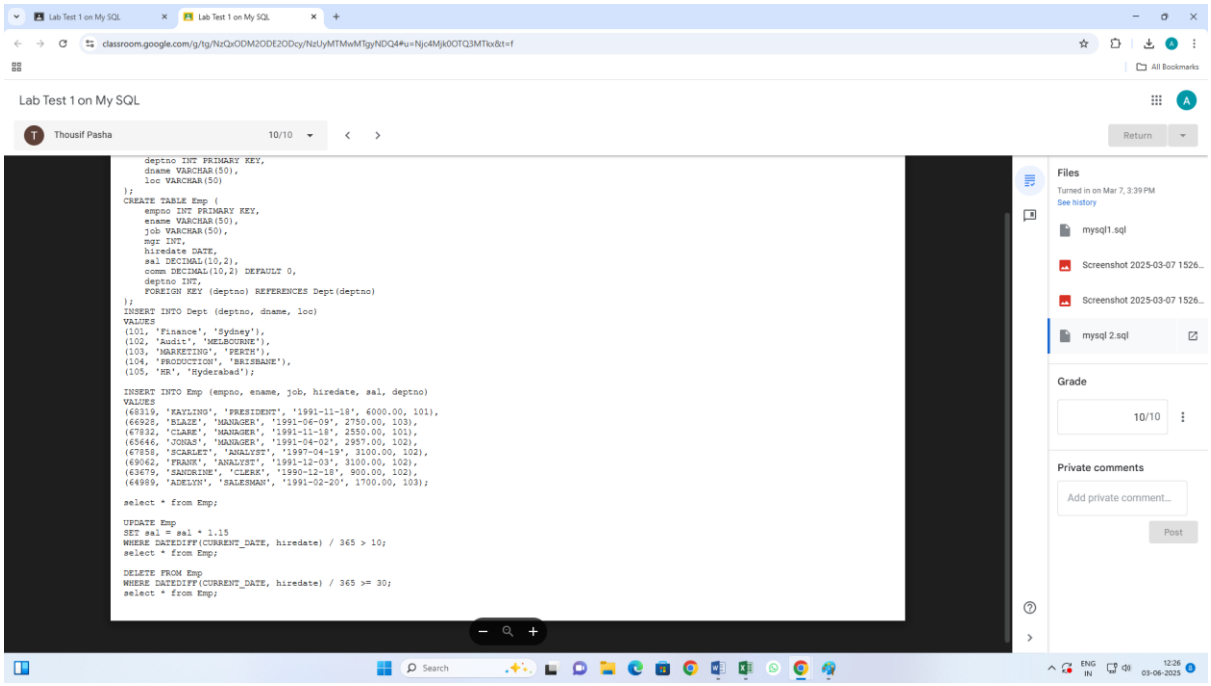
Data Base Management

Students will learn and practice creating and managing databases. They will also gain experience writing and executing queries to retrieve the desired results. Using MySQL, students will work on creating, editing, and managing structured databases.

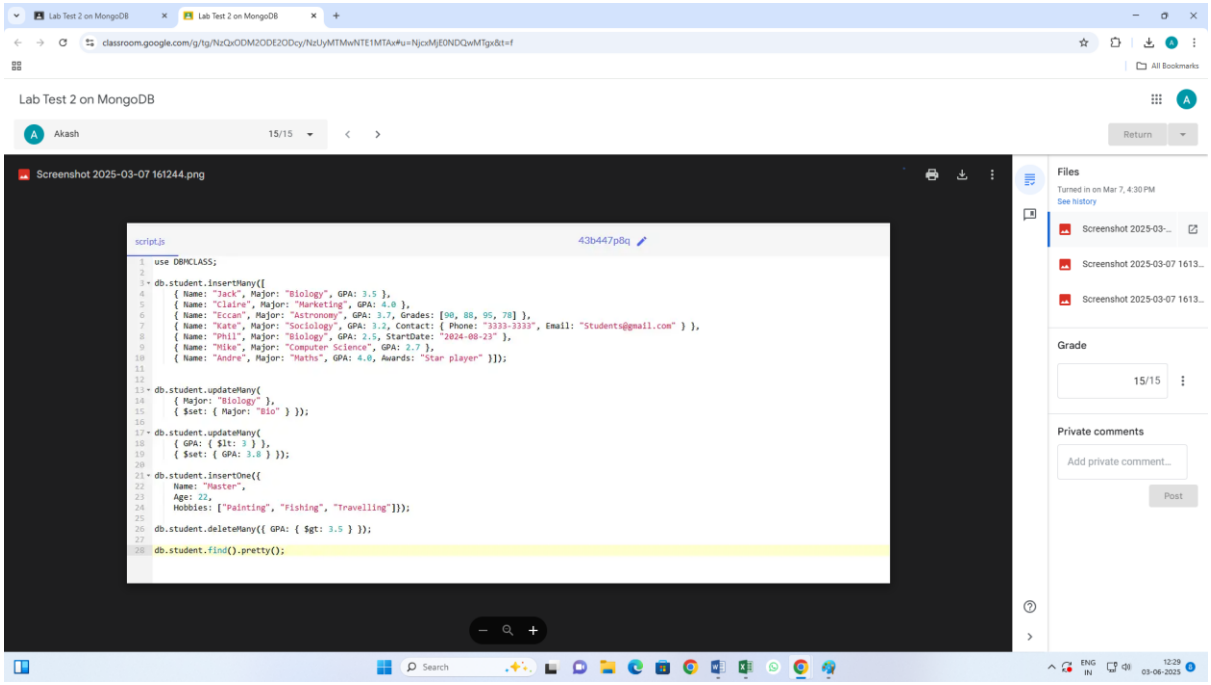
Here is a sample of the work completed by our students.

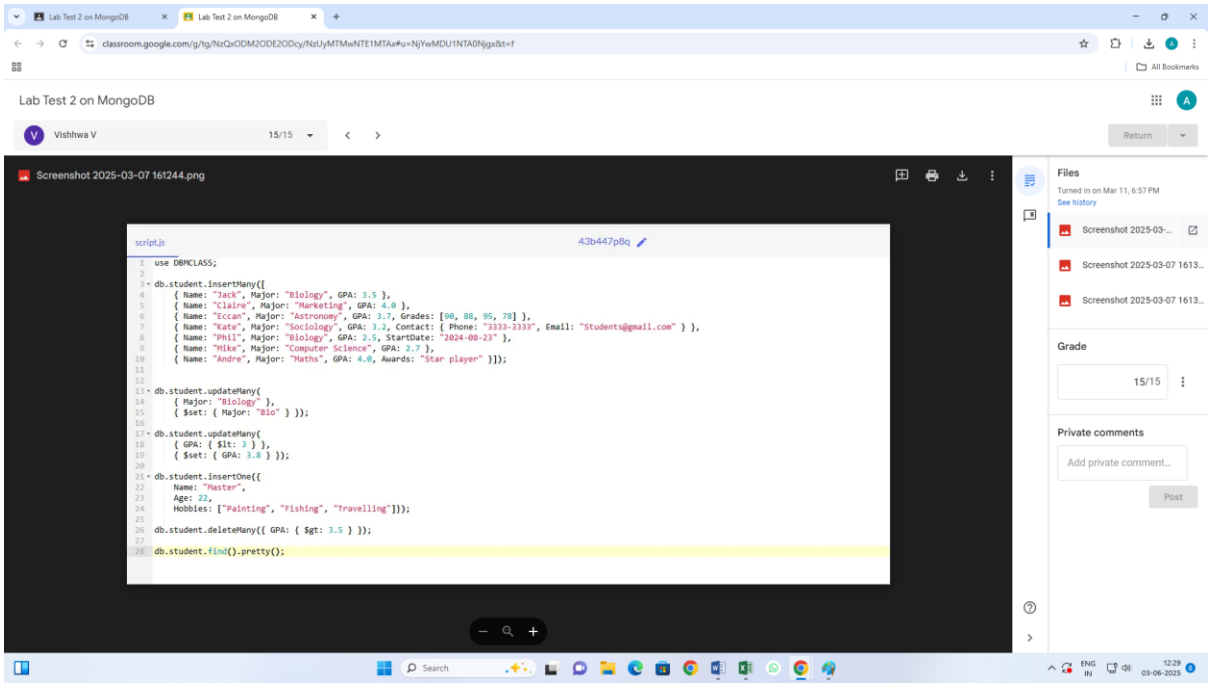


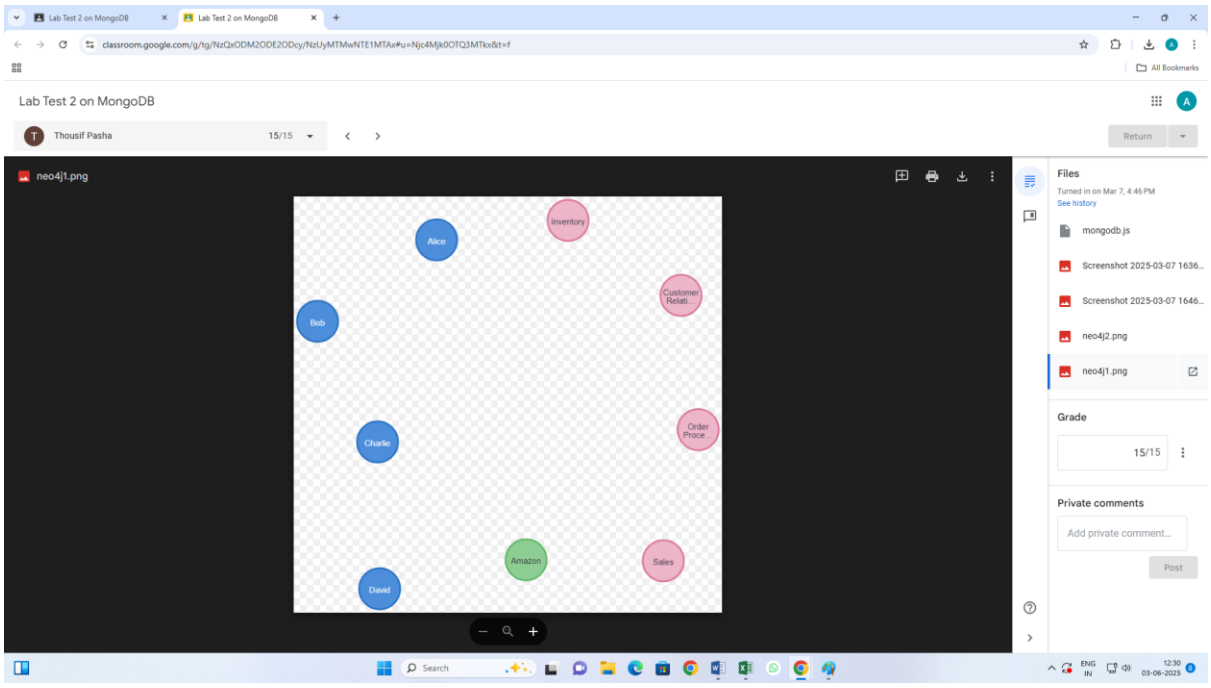


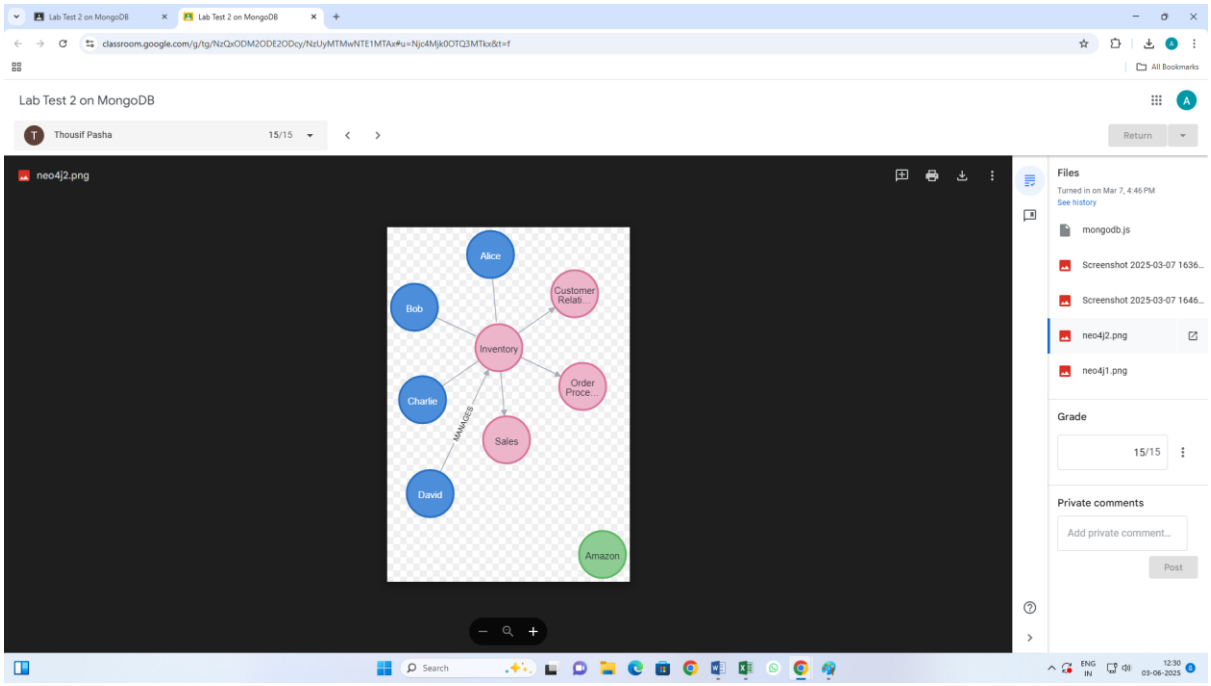


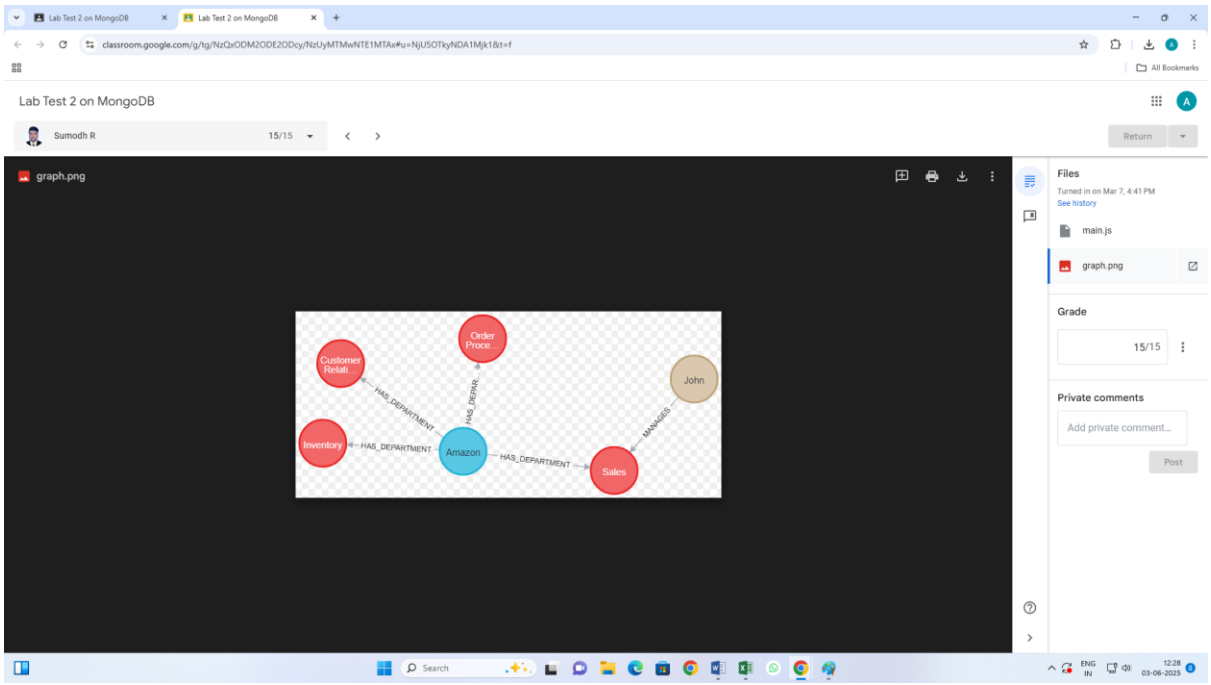
Students also gained hands-on experience working with MongoDB and Neo4j. They explored MongoDB's flexible, document-based database structure, learning how to store and manage unstructured data effectively. In addition, students worked with Neo4j, a graph database, to understand and model complex relationships between data. This exposure helped them broaden their database management skills beyond traditional relational databases.




Lab Test 2 on MongoDB
Vishhwa V
15/15
Return
Screenshot 2025-03-07 161244.png
script.js
43b447p8q
use DBMCLASS;
db.student.insertMany([
{ Name: "Jack", Major: "Biology", GPA: 3.5 },
{ Name: "Claire", Major: "Marketing", GPA: 4.0 },
{ Name: "Eccan", Major: "Astronomy", GPA: 3.7, Grades: [90, 88, 95, 78] },
{ Name: "Kate", Major: "Sociology", GPA: 3.2, Contact: { Phone: "3333-3333", Email: "Students@gmail.com" } },
{ Name: "Phil", Major: "Biology", GPA: 2.5, StartDate: "2024-08-23" },
{ Name: "Mike", Major: "Computer Science", GPA: 2.7 },
{ Name: "Andre", Major: "Maths", GPA: 4.0, Awards: "Star player" }]);
db.student.updateMany(
{ Major: "Biology" },
{ $set: { Major: "Bio" } });
db.student.updateMany(
{ GPA: { $lt: 3 } },
{ $set: { GPA: 3.0 } });
db.student.insertOne({
Name: "Master",
Age: 22,
Hobbies: ["Painting", "Fishing", "Travelling"]});
db.student.deleteMany({ GPA: { $gt: 3.5 } });
db.student.find().pretty();
Files
Turned in on Mar 11, 6:57 PM
See history
Screenshot 2025-03-...
Screenshot 2025-03-07 1613...
Screenshot 2025-03-07 1613...
Grade
15/15
Private comments
Add private comment...
Post


Lab Test 2 on MongoDB
Thousif Pasha
15/15
Return
neo4j1.png
Alice
Inventory
Customer Relati...
Bob
Charlie
Order Proce...
Amazon
Sales
David
Files
Turned in on Mar 7, 4:46 PM
See history
mongodb.js
Screenshot 2025-03-07 1636...
Screenshot 2025-03-07 1646...
neo4j2.png
neo4j1.png
Grade
15/15
Private comments
Add private comment...
Post





Using MySQL, MongoDB, and Neo4j in their training provides students with a comprehensive understanding of different database technologies. Each platform offers unique features—MySQL for structured relational data, MongoDB for flexible document storage, and Neo4j for graph-based relationships. By working with multiple database applications, students gain valuable hands-on experience that prepares them to handle a wide range of real-world data challenges. This diverse exposure not only enhances their technical skills but also makes them more adaptable and competitive in the evolving job market.