#### Aim

To connect to a MySQL database from a JSP file, retrieve data from a table, and display it dynamically on the web page.

## **Technologies Used**

JSP, MySQL Database, Apache Tomcat, JDBC

#### **Directory Structure**

```
JSPDatabaseApp/
|
+- db.jsp
+- WEB-INF/
+- web.xml
```

#### **Database Setup**

```
CREATE DATABASE college;

USE college;

CREATE TABLE students (
  id INT PRIMARY KEY,
  name VARCHAR(50),
  branch VARCHAR(50));

INSERT INTO students VALUES (1, 'Madhu', 'CSE');
INSERT INTO students VALUES (2, 'Sravani', 'ECE');
INSERT INTO students VALUES (3, 'Raj', 'MECH');
```

#### db.jsp

```
<%@ page import="java.sql.*" %>
<head><title>Student Records</title></head>
<body>
<h2>Student Details from Database</h2>
ID
   Name
   Branch
< 응
   try {
      Class.forName("com.mysql.cj.jdbc.Driver");
           Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/college",
"root", "your_password");
      Statement stmt = con.createStatement();
      ResultSet rs = stmt.executeQuery("SELECT * FROM students");
      while(rs.next()) {
응>
<<= rs.getInt("id") %>
   <\td><\text{"name"} \%>
   <<= rs.getString("branch") %>
<왕
      }
      con.close();
   } catch(Exception e) {
      out.println("Database Error: " + e.getMessage());
응>
</body>
</html>
```

#### web.xml (Optional)

<welcome-file>db.jsp</welcome-file>
</welcome-file-list>

</web-app>

#### **How to Run**

- 1. Create `college` database and `students` table in MySQL.
- 2. Place `db.jsp` inside `JSPDatabaseApp` folder and deploy it in Tomcat's `webapps` directory.
- 3. Start Tomcat and visit: http://localhost:8080/JSPDatabaseApp/db.jsp

# **Expected Output**

Student Details from Database
++
ID   Name   Branch
++
1   Madhu   CSE
2   Sravani   ECE
3   Raj   MECH
++

### Result

Successfully accessed and displayed database records in a JSP page using JDBC.