Assignment : 01

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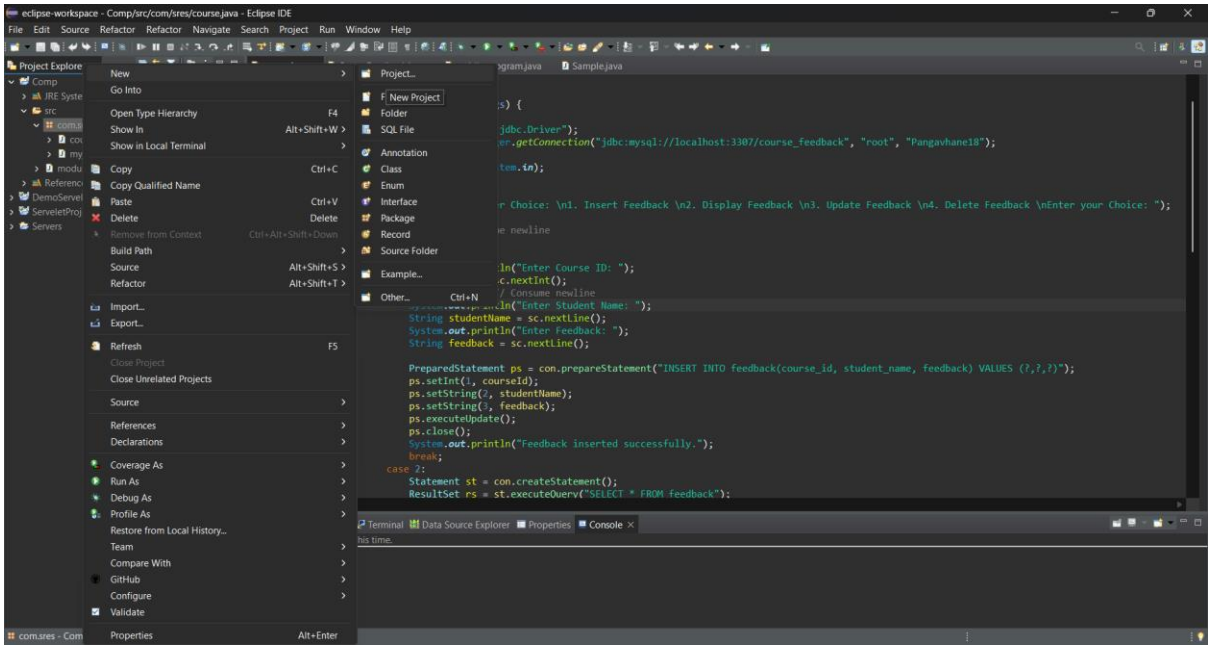
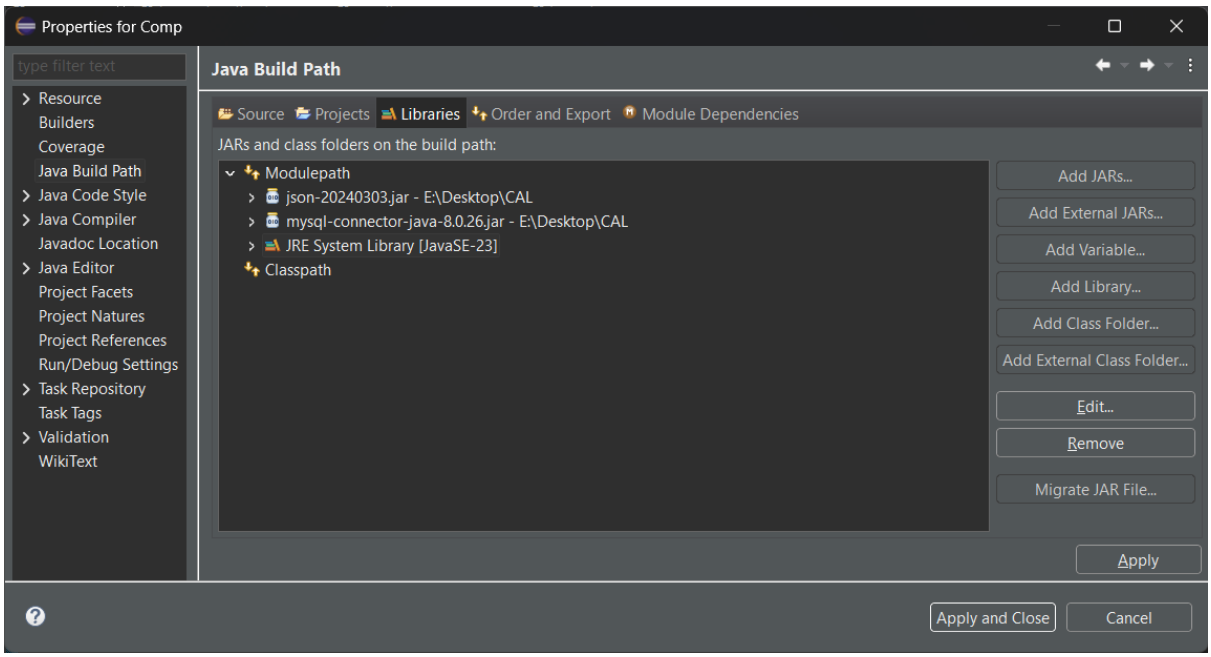
JDBC and Transaction Management -Add Database CRUD operations to MVC based web application using JDBC classes

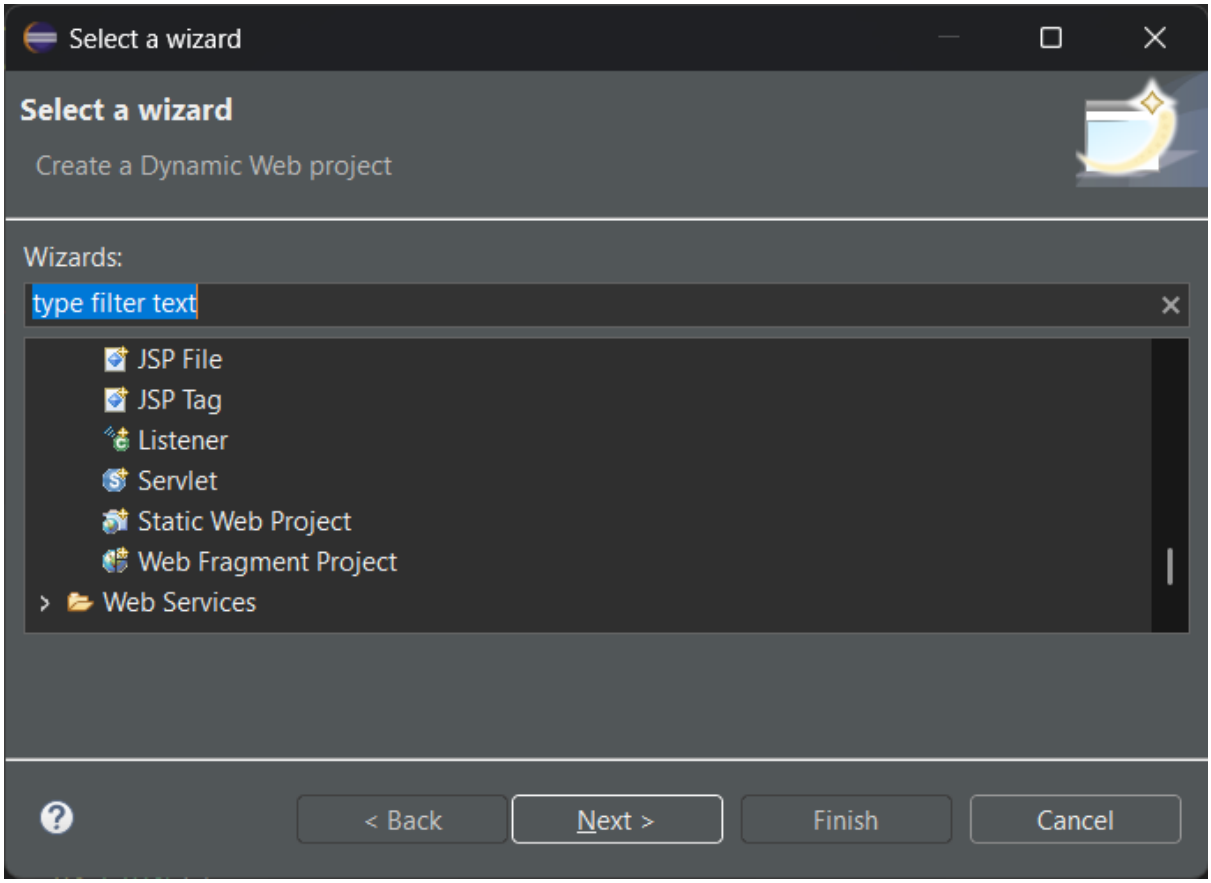
Step 1 : Create New Project in eclipse



Step 2: add external jar files like sql connector



Step 3 : Create servlet



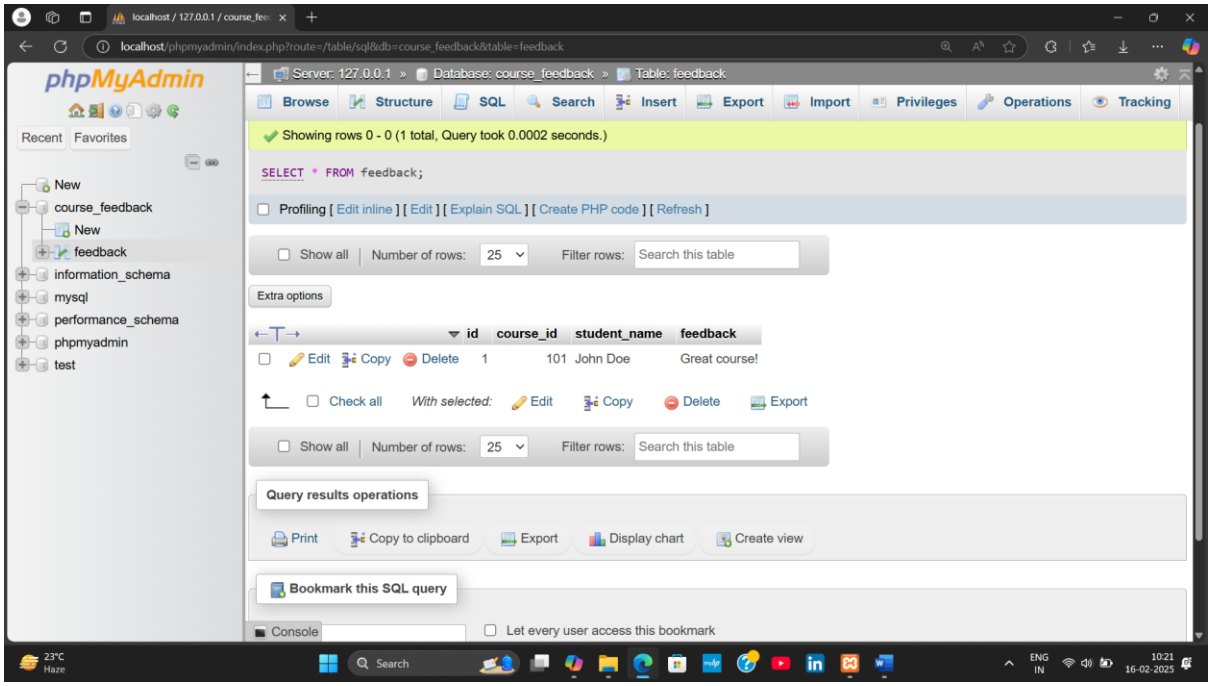
Step 4 : Actual java Code

```
package com.sres;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Scanner;

public class course{
    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3307/course_feedback", "root",
"Pangavhane18");

            Scanner sc = new Scanner(System.in);
            int chs;
            do {
                System.out.println("Enter Choice: \n1. Insert Feedback \n2. Display Feedback \n3.
Update Feedback \n4. Delete Feedback \nEnter your Choice: ");
```

```
            int ch = sc.nextInt();
            sc.nextLine(); // Consume newline
            switch (ch) {
                case 1:
                    System.out.println("Enter Course ID: ");
                    int courseId = sc.nextInt();
                    sc.nextLine(); // Consume newline
                    System.out.println("Enter Student Name: ");
                    String studentName = sc.nextLine();
                    System.out.println("Enter Feedback: ");
                    String feedback = sc.nextLine();

                    PreparedStatement ps = con.prepareStatement("INSERT INTO
feedback(course_id, student_name, feedback) VALUES (?,?,?)");
                    ps.setInt(1, courseId);
                    ps.setString(2, studentName);
                    ps.setString(3, feedback);
                    ps.executeUpdate();
                    ps.close();
                    System.out.println("Feedback inserted successfully.");
                    break;
                case 2:
                    Statement st = con.createStatement();
                    ResultSet rs = st.executeQuery("SELECT * FROM feedback");
                    System.out.println("Course ID\tStudent Name\tFeedback");
                    while (rs.next()) {
                        System.out.println(rs.getInt(1) + "\t" + rs.getString(2) + "\t" +
rs.getString(3));
                    }
                    rs.close();
                    st.close();
                    break;
                case 3:
                    System.out.println("Enter Feedback ID to update: ");
                    int feedbackId = sc.nextInt();
                    sc.nextLine(); // Consume newline
                    System.out.println("Enter the new feedback: ");
                    String newFeedback = sc.nextLine();

                    ps = con.prepareStatement("UPDATE feedback SET feedback=? WHERE id
= ?");
                    ps.setString(1, newFeedback);
                    ps.setInt(2, feedbackId);
                    ps.executeUpdate();
                    ps.close();
                    System.out.println("Update successful.");
                    break;
                case 4:
```

```
                    System.out.println("Enter Feedback ID to delete: ");
                    int feedbackIdToDelete = sc.nextInt();
                    ps = con.prepareStatement("DELETE FROM feedback WHERE id = ?");
                    ps.setInt(1, feedbackIdToDelete);
                    ps.executeUpdate();
                    ps.close();
                    System.out.println("Feedback deleted successfully.");
                    break;
                default:
                    System.out.println("Invalid choice. Please enter a valid option.");
                    break;
            }
            System.out.println("Press 0 to continue or any other key to exit: ");
            if (sc.hasNextInt()) {
                chs = sc.nextInt();
            } else {
                chs = 1; // Exit safely
            }
            sc.nextLine(); // Consume newline
        } while (chs == 0);

        sc.close();
        con.close();
    } catch (Exception e) {
        System.out.println("Error: " + e.getMessage());
        e.printStackTrace();

}
}
}
```

Step 5 : output


phpMyAdmin
Recent
Favorites
New
course_feedback
New
feedback
information_schema
mysql
performance_schema
phpmyadmin
test
Server: 127.0.0.1 » Database: course_feedback » Table: feedback
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)
SELECT * FROM feedback;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
Extra options
id
course_id
student_name
feedback
Edit
Copy
Delete
1
101
John Doe
Great course!
Check all
With selected:
Edit
Copy
Delete
Export
Show all
Number of rows: 25
Filter rows: Search this table
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Bookmark this SQL query
Console
Let every user access this bookmark
23°C
Haze
Search
ENG
IN
10:21
16-02-2025