

DBMS LAB-4

Source Code: [GitHub](#)

```
package studentdata;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

public class App {
    // Insert student data
    public void insertStudent(String name, int age, String email) {
        String sql = "INSERT INTO studentss (name, age, email) VALUES (?, ?, ?)";
        try (Connection con = getConnection();
            PreparedStatement stmt = con.prepareStatement(sql)) {
            stmt.setString(1, name);
            stmt.setInt(2, age);
            stmt.setString(3, email);
            stmt.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    // Delete student by ID
    public void deleteStudent(int id) {
        String sql = "DELETE FROM studentss WHERE id = ?";
        try (Connection conn = getConnection();
            PreparedStatement stmt = conn.prepareStatement(sql)) {
            stmt.setInt(1, id);
            stmt.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    // Update student data
    public void updateStudent(int id, String name, int age, String email) {
        String sql = "UPDATE studentss SET name = ?, age = ?, email = ? WHERE id = ?";
        try (Connection conn = getConnection();
            PreparedStatement stmt = conn.prepareStatement(sql)) {
            stmt.setString(1, name);
            stmt.setInt(2, age);
```

```

    stmt.setString(3, email);
    stmt.setInt(4, id);
    stmt.executeUpdate();
} catch (SQLException e) {
    e.printStackTrace();
}
}

// Helper method to get database connection
private Connection getConnection() throws SQLException {
    // Code to establish database connection
    return DriverManager.getConnection("jdbc:mysql://localhost:3306/studentss", "root",
    "password");
}
}

```

//mysql

```

create database if not exists students;

use studentss;

CREATE TABLE studentss (

    id INT AUTO_INCREMENT PRIMARY KEY,

    name VARCHAR(255) NOT NULL,

    age INT NOT NULL,

    email VARCHAR(255) NOT NULL,

    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP

);

```