```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
public class App implements ActionListener {
    private Connection connection;
    private JFrame frame;
    private JTextField idField, nameField, markField;
    private JTextArea displayArea;
    public App() {
        // Initialize the database connection
        try {
            connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/jdbc", "root",
"Sancse@2003");
        } catch (SQLException e) {
            e.printStackTrace();
        // Create the GUI
        frame = new JFrame("User Database App");
        frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
        JMenuBar menuBar = new JMenuBar();
        JMenu menu = new JMenu("Menu");
        JMenuItem saveMenuItem = new JMenuItem("Save");
        JMenuItem displayMenuItem = new JMenuItem("Display");
        saveMenuItem.addActionListener(this);
        displayMenuItem.addActionListener(this);
        menu.add(saveMenuItem);
        menu.add(displayMenuItem);
        menuBar.add(menu);
        frame.setJMenuBar(menuBar);
        JPanel savePanel = new JPanel();
        savePanel.setLayout(new GridLayout(4, 2));
        JLabel idLabel = new JLabel("ID:");
        idField = new JTextField(20);
        JLabel nameLabel = new JLabel("Name:");
        nameField = new JTextField(20);
        JLabel markLabel = new JLabel("Mark:");
```

```
markField = new JTextField(20);
        JButton saveButton = new JButton("Save");
        saveButton.addActionListener(this);
        savePanel.add(idLabel);
        savePanel.add(idField);
        savePanel.add(nameLabel);
        savePanel.add(nameField);
        savePanel.add(markLabel);
        savePanel.add(markField);
        savePanel.add(saveButton);
        displayArea = new JTextArea(15, 30);
        displayArea.setEditable(false);
        frame.getContentPane().add(savePanel, BorderLayout.NORTH);
        frame.getContentPane().add(new JScrollPane(displayArea),
BorderLayout.CENTER);
       frame.setSize(400, 400);
        frame.setVisible(true);
   }
   public void actionPerformed(ActionEvent e) {
        if (e.getActionCommand().equals("Save")) {
            saveUser();
        } else if (e.getActionCommand().equals("Display")) {
            displayUsers();
        }
   }
   public void saveUser() {
        String id = idField.getText();
       String name = nameField.getText();
       String mark = markField.getText();
       try {
            PreparedStatement ps = connection.prepareStatement("INSERT INTO Sheet
(id, name, mark) VALUES (?, ?, ?)");
            ps.setString(1, id);
            ps.setString(2, name);
            ps.setString(3, mark);
            ps.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
   }
   public void displayUsers() {
```

```
displayArea.setText(""); // Clear the text area
      try {
         Statement statement = connection.createStatement();
         ResultSet resultSet = statement.executeQuery("SELECT * FROM Sheet");
         while (resultSet.next()) {
            int id = resultSet.getInt("id");
            String name = resultSet.getString("name");
            int mark = resultSet.getInt("mark");
            displayArea.append("ID: " + id + ", Name: " + name + ", Mark: " +
mark + "\n");
      } catch (SQLException e) {
         e.printStackTrace();
   }
   public static void main(String[] args) {
      SwingUtilities.invokeLater(() -> new App());
   }
}
mysql> use jdbc;
Database changed
mysql> create table Sheet( id int primary key,name varchar(200),mark int);
Query OK, 0 rows affected (3.92 sec)
mysql> desc Sheet;
+----+
+----+
      | int | NO | PRI | NULL
name | varchar(200) | YES | NULL
mark int YES | NULL
+----+
3 rows in set (2.45 sec)
DBMS
mysql> select*from Sheet;
+---+
| id | name | mark |
+---+
1 | san | 98 |
+----+
1 row in set (0.00 sec)
```

ID: 1, Name: san, Mark: 98