Code:

DBConnection Class:

```java
package student;
import java.sql.Connection;
import java.sql.DriverManager;

public class DBConnection {
    public static Connection connect() {
        Connection conn = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/student_management",
            "root",
            ""
        );
        } catch (Exception e) {
            e.printStackTrace();
        }
        return conn;
    }
}
```

AddStudent Class:

```java
package student;
import javax.swing.*;
```

```java
import java.awt.*;
import java.awt.event.*;
import java.sql.*;

public class AddStudent extends JFrame {
    JTextField nameField, emailField, courseField;
    JButton addButton;

    AddStudent() {
        setTitle("Add Student");
        setSize(350, 300);
        setDefaultCloseOperation(DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);
        panel.setBackground(new Color(232, 245, 233));
        add(panel);

        JLabel titleLabel = new JLabel("Add Student");
        titleLabel.setFont(new Font("Arial", Font.BOLD, 20));
        titleLabel.setBounds(110, 10, 200, 30);
        titleLabel.setForeground(new Color(56, 142, 60));
        panel.add(titleLabel);

        JLabel nameLabel = new JLabel("Name:");
        nameLabel.setBounds(30, 60, 80, 25);
```

```java
panel.add(nameLabel);
nameField = new JTextField();
nameField.setBounds(120, 60, 180, 25);
panel.add(nameField);

JLabel emailLabel = new JLabel("Email:");
emailLabel.setBounds(30, 100, 80, 25);
panel.add(emailLabel);
emailField = new JTextField();
emailField.setBounds(120, 100, 180, 25);
panel.add(emailField);

JLabel courseLabel = new JLabel("Course:");
courseLabel.setBounds(30, 140, 80, 25);
panel.add(courseLabel);
courseField = new JTextField();
courseField.setBounds(120, 140, 180, 25);
panel.add(courseField);

addButton = new JButton("Add");
addButton.setBounds(120, 190, 100, 30);
addButton.setBackground(new Color(76, 175, 80));
addButton.setForeground(Color.WHITE);
panel.add(addButton);

addButton.addActionListener(e -> {
    try {
```

```java
            Connection conn = DBConnection.connect();
            String query = "INSERT INTO students(name,
email, course) VALUES (?, ?, ?)";
            PreparedStatement pst =
conn.prepareStatement(query);
            pst.setString(1, nameField.getText());
            pst.setString(2, emailField.getText());
            pst.setString(3, courseField.getText());
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null, "Student
Added!");
            conn.close();
        } catch (Exception ex) {
            ex.printStackTrace();
            JOptionPane.showMessageDialog(null, "Error
Adding Student!");
        }
    });

    setVisible(true);
  }
}
```

UpdateStudent Class:

```java
package student;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
```

```java
import java.sql.*;

public class UpdateStudent extends JFrame {
    JTextField idField, nameField, emailField, courseField;
    JButton updateButton;

    UpdateStudent() {
        setTitle("Update Student");
        setSize(350, 350);
        setDefaultCloseOperation(DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);
        panel.setBackground(new Color(240, 255, 240));
        add(panel);

        JLabel titleLabel = new JLabel("Update Student");
        titleLabel.setFont(new Font("Arial", Font.BOLD, 20));
        titleLabel.setForeground(new Color(0, 102, 51));
        titleLabel.setBounds(90, 10, 200, 30);
        panel.add(titleLabel);

        JLabel idLabel = new JLabel("Student ID:");
        idLabel.setBounds(30, 60, 80, 25);
        panel.add(idLabel);
```

```java
idField = new JTextField();
idField.setBounds(120, 60, 180, 25);
panel.add(idField);

JLabel nameLabel = new JLabel("Name:");
nameLabel.setBounds(30, 100, 80, 25);
panel.add(nameLabel);

nameField = new JTextField();
nameField.setBounds(120, 100, 180, 25);
panel.add(nameField);

JLabel emailLabel = new JLabel("Email:");
emailLabel.setBounds(30, 140, 80, 25);
panel.add(emailLabel);

emailField = new JTextField();
emailField.setBounds(120, 140, 180, 25);
panel.add(emailField);

JLabel courseLabel = new JLabel("Course:");
courseLabel.setBounds(30, 180, 80, 25);
panel.add(courseLabel);

courseField = new JTextField();
courseField.setBounds(120, 180, 180, 25);
panel.add(courseField);
```

```java
updateButton = new JButton("Update");
updateButton.setBounds(110, 230, 120, 30);
updateButton.setBackground(new Color(0, 153, 76));
updateButton.setForeground(Color.WHITE);
panel.add(updateButton);

updateButton.addActionListener(e -> {
    try {
        Connection conn = DBConnection.connect();
        String query = "UPDATE students SET name=?,
email=?, course=? WHERE id=?";
        PreparedStatement pst =
conn.prepareStatement(query);
        pst.setString(1, nameField.getText());
        pst.setString(2, emailField.getText());
        pst.setString(3, courseField.getText());
        pst.setInt(4, Integer.parseInt(idField.getText()));
        pst.executeUpdate();
        JOptionPane.showMessageDialog(null, "Student
Updated!");
        conn.close();
    } catch (Exception ex) {
        ex.printStackTrace();
        JOptionPane.showMessageDialog(null, "Error
Updating Student!");
    }
```

```
      });

      setVisible(true);
   }
}
```

DeleteStudent Class:

```java
package student;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;

public class DeleteStudent extends JFrame {
    JTextField idField;
    JButton deleteButton;

    DeleteStudent() {
        setTitle("Delete Student");
        setSize(350, 200);
        setDefaultCloseOperation(DISPOSE_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);
        panel.setBackground(new Color(255, 235, 238));
        add(panel);
```

```java
JLabel titleLabel = new JLabel("Delete Student");
titleLabel.setFont(new Font("Arial", Font.BOLD, 20));
titleLabel.setForeground(new Color(153, 0, 0));
titleLabel.setBounds(100, 10, 200, 30);
panel.add(titleLabel);

JLabel idLabel = new JLabel("Enter ID:");
idLabel.setBounds(30, 60, 80, 25);
panel.add(idLabel);

idField = new JTextField();
idField.setBounds(120, 60, 180, 25);
panel.add(idField);

deleteButton = new JButton("Delete");
deleteButton.setBounds(110, 100, 100, 30);
deleteButton.setBackground(new Color(204, 0, 0));
deleteButton.setForeground(Color.WHITE);
panel.add(deleteButton);

deleteButton.addActionListener(e -> {
   try {
      Connection conn = DBConnection.connect();
      String query = "DELETE FROM students WHERE id=?";
```

```java
            PreparedStatement pst =
conn.prepareStatement(query);
            pst.setInt(1, Integer.parseInt(idField.getText()));
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null, "Student
Deleted!");
            conn.close();
        } catch (Exception ex) {
            ex.printStackTrace();
            JOptionPane.showMessageDialog(null, "Error
Deleting Student!");
        }
    });

    setVisible(true);
  }
}
```

ViewStudents Class:
```java
package student;
import javax.swing.*;
import javax.swing.table.*;
import java.awt.*;
import java.sql.*;

public class ViewStudents extends JFrame {
    JTable table;
```

```java
ViewStudents() {
    setTitle("View Students");
    setSize(550, 350);
    setDefaultCloseOperation(DISPOSE_ON_CLOSE);
    setLocationRelativeTo(null);

    JPanel panel = new JPanel(new BorderLayout());
    panel.setBackground(new Color(245, 245, 255));
    add(panel);

    JLabel titleLabel = new JLabel("All Students",
SwingConstants.CENTER);
    titleLabel.setFont(new Font("Arial", Font.BOLD, 20));
    titleLabel.setForeground(new Color(51, 0, 102));
    panel.add(titleLabel, BorderLayout.NORTH);

    String[] columns = {"ID", "Name", "Email", "Course"};
    String[][] data = new String[100][4];

    try {
        Connection conn = DBConnection.connect();
        Statement st = conn.createStatement();
        ResultSet rs = st.executeQuery("SELECT * FROM
students");

            int i = 0;
```

```java
            while (rs.next()) {
                data[i][0] = String.valueOf(rs.getInt("id"));
                data[i][1] = rs.getString("name");
                data[i][2] = rs.getString("email");
                data[i][3] = rs.getString("course");
                i++;
            }
            conn.close();
        } catch (Exception e) {
            e.printStackTrace();
        }

        table = new JTable(data, columns);
        JTableHeader header = table.getTableHeader();
        header.setBackground(new Color(102, 0, 153));
        header.setForeground(Color.WHITE);
        header.setFont(new Font("Arial", Font.BOLD, 14));

        JScrollPane scroll = new JScrollPane(table);
        panel.add(scroll, BorderLayout.CENTER);

        setVisible(true);
    }
}
```

MainDashboard Class:

```java
package student;
```

```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class MainDashboard extends JFrame {
    MainDashboard() {
        setTitle("Student Management System");
        setSize(400, 400);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setLocationRelativeTo(null);

        JPanel panel = new JPanel();
        panel.setLayout(null);
        panel.setBackground(new Color(224, 242, 241));
        add(panel);

        JLabel title = new JLabel("Student Management");
        title.setBounds(70, 30, 300, 30);
        title.setFont(new Font("Arial", Font.BOLD, 22));
        title.setForeground(new Color(0, 77, 64));
        panel.add(title);

        JButton addBtn = new JButton("Add Student");
        addBtn.setBounds(120, 90, 150, 40);
        addBtn.setBackground(new Color(0, 150, 136));
        addBtn.setForeground(Color.WHITE);
        panel.add(addBtn);
```

```java
JButton viewBtn = new JButton("View Students");
viewBtn.setBounds(120, 140, 150, 40);
viewBtn.setBackground(new Color(0, 137, 123));
viewBtn.setForeground(Color.WHITE);
panel.add(viewBtn);

JButton updateBtn = new JButton("Update Student");
updateBtn.setBounds(120, 190, 150, 40);
updateBtn.setBackground(new Color(0, 121, 107));
updateBtn.setForeground(Color.WHITE);
panel.add(updateBtn);

JButton deleteBtn = new JButton("Delete Student");
deleteBtn.setBounds(120, 240, 150, 40);
deleteBtn.setBackground(new Color(0, 105, 92));
deleteBtn.setForeground(Color.WHITE);
panel.add(deleteBtn);

addBtn.addActionListener(e -> new AddStudent());
viewBtn.addActionListener(e -> new ViewStudents());
updateBtn.addActionListener(e -> new
UpdateStudent());
deleteBtn.addActionListener(e -> new
DeleteStudent());

setVisible(true);
```

```java
    }

    public static void main(String[] args) {
        new MainDashboard();
    }
}
```