

Source Code:

```
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.control.*;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
import java.math.BigDecimal;
import java.sql.*;
import java.time.LocalDate;
import User.*;
public class HelloJavaFX extends Application {
  Connection con;
  user u;
  address ad:
  education ed;
  employmentInformation emp;
  emergencyContact ec;
  int id;
  String name;
  @Override
  public void start(Stage primaryStage) {
    initializeDatabaseConnection();
    TextField nameField = new TextField();
    nameField.setPromptText("Enter your name");
    Button displayButton = new Button("Display User Info");
    Button createButton = new Button("Create a New User");
    VBox root = new VBox(10, nameField, displayButton, createButton);
    Scene scene = new Scene(root, 400, 300);
    displayButton.setOnAction(event -> displayUserInfo(nameField, primaryStage));
    createButton.setOnAction(event -> createNewUser(primaryStage));
    primaryStage.setTitle("User Information System");
    primaryStage.setScene(scene);
    primaryStage.show();
  }
```

```
private void displayUserInfo(TextField nameField, Stage primaryStage) {
  name = nameField.getText().trim();
  name = nameField.getText().trim();
  if (name.isEmpty()) {
     showAlert("Invalid Input", "Please enter a valid name.");
     return;
  }
  String userInfo = u.showUser(name);
  if (userInfo == null || userInfo.contains("No user found")) {
     showAlert("Not Found", "No user found with the name " + name);
     return;
  }
  id = Integer.parseInt(userInfo.split(" ")[0]);
  TextArea resultArea = new TextArea();
  resultArea.setEditable(false);
  resultArea.setWrapText(true);
  resultArea.setText("User Info:\n" + userInfo + "\n\n");
  resultArea.appendText("Address Info:\n" + ad.showAddress(id) + "\n\n");
  resultArea.appendText("Education Info:\n" + ed.showEducation(id) + "\n\n");
  resultArea.appendText("Employment Info:\n" + emp.showEmploymentInfo(id) + "\n\n");
  resultArea.appendText("Emergency Contacts:\n" + ec.showEmergencyContacts(id) + "\n");
  Button updateButton = new Button("Update Information");
  updateButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
  Button deleteButton = new Button("Delete User");
  deleteButton.setOnAction(e -> {
     deleteUser(id);
     showAlert("Success", "User deleted successfully.");
     showMainMenu(primaryStage);
  });
  Button backButton = new Button("Back");
  backButton.setOnAction(e -> showMainMenu(primaryStage));
  VBox outputLayout = new VBox(10, resultArea, updateButton, deleteButton, backButton);
  primaryStage.setScene(new Scene(outputLayout, 400, 400));
}
private void createNewUser(Stage primaryStage) {
```

```
TextField firstNameField = new TextField();
firstNameField.setPromptText("Enter First Name");
TextField lastNameField = new TextField();
lastNameField.setPromptText("Enter Last Name");
TextField emailField = new TextField();
emailField.setPromptText("Enter Email");
TextField phoneField = new TextField();
phoneField.setPromptText("Enter Phone Number");
TextField addressField = new TextField();
addressField.setPromptText("Enter Address");
TextField streetField = new TextField();
streetField.setPromptText("Enter Street");
TextField cityField = new TextField();
cityField.setPromptText("Enter City");
TextField stateField = new TextField();
stateField.setPromptText("Enter State");
TextField postalCodeField = new TextField();
postalCodeField.setPromptText("Enter Postal Code");
TextField degreeField = new TextField();
degreeField.setPromptText("Enter Degree");
TextField institutionField = new TextField();
institutionField.setPromptText("Enter Institution Name");
TextField graduationYearField = new TextField();
graduationYearField.setPromptText("Enter Graduation Year");
TextField gradeField = new TextField();
gradeField.setPromptText("Enter Grade");
TextField jobTitleField = new TextField();
jobTitleField.setPromptText("Enter Job Title");
TextField companyField = new TextField();
```

```
companyField.setPromptText("Enter Company Name");
DatePicker startDatePicker = new DatePicker();
startDatePicker.setPromptText("Start Date");
DatePicker endDatePicker = new DatePicker();
endDatePicker.setPromptText("End Date");
TextField contactNameField = new TextField();
contactNameField.setPromptText("Enter Emergency Contact Name");
TextField contactPhoneField = new TextField();
contactPhoneField.setPromptText("Enter Emergency Contact Phone");
TextField contactEmailField = new TextField():
contactEmailField.setPromptText("Enter Emergency Contact Email");
Button saveButton = new Button("Save User");
saveButton.setOnAction(e -> {
  String firstName = firstNameField.getText().trim();
  String lastName = lastNameField.getText().trim();
  String email = emailField.getText().trim();
  String phone = phoneField.getText().trim();
  String address = addressField.getText().trim();
  String street = streetField.getText().trim();
  String city = cityField.getText().trim();
  String state = stateField.getText().trim();
  String postalCode = postalCodeField.getText().trim();
  String degree = degreeField.getText().trim();
  String institution = institutionField.getText().trim();
  String gradeStr = gradeField.getText().trim();
  int graduationYear = Integer.parseInt(graduationYearField.getText().trim());
  BigDecimal grade = new BigDecimal(gradeStr);
  String jobTitle = jobTitleField.getText().trim();
  String company = companyField.getText().trim();
  LocalDate startDate = startDatePicker.getValue();
  LocalDate endDate = endDatePicker.getValue();
  String contactName = contactNameField.getText().trim();
  String contactPhone = contactPhoneField.getText().trim();
```

```
if (firstName.isEmpty() || lastName.isEmpty() || email.isEmpty() || phone.isEmpty() ||
address.isEmpty() ||
          street.isEmpty() || city.isEmpty() || state.isEmpty() || postalCode.isEmpty() ||
          jobTitle.isEmpty() || company.isEmpty() || startDate == null || endDate == null ||
          contactName.isEmpty() || contactPhone.isEmpty() || contactEmail.isEmpty()) {
          showAlert("Error", "All fields are required.");
       } else {
          u.insertUser(firstName, lastName, email, phone, address);
          String userInfo = u.showUser(firstName);
          int userId = Integer.parseInt(userInfo.split(" ")[0]);
          ad.insertAddress(userId, street, city, state, postalCode);
          ed.insertEducation(userId, degree, institution, graduationYear, grade);
          emp.insertEmploymentInfo(userId, jobTitle, company, Date.valueOf(startDate),
Date.valueOf(endDate));
          ec.insertEmergencyContact(userId, contactName, "Emergency", contactPhone,
contactEmail);
          showAlert("Success", "User and related details created successfully.");
          showMainMenu(primaryStage);
    });
     Button backButton = new Button("Back");
     backButton.setOnAction(e -> showMainMenu(primaryStage));
     VBox createUserLayout = new VBox(10, firstNameField, lastNameField, emailField,
phoneField, addressField,
          streetField, cityField, stateField, postalCodeField, degreeField, institutionField,
graduationYearField, gradeField, jobTitleField, companyField,
          startDatePicker, endDatePicker, contactNameField, contactPhoneField,
contactEmailField, saveButton, backButton);
     ScrollPane scrollPane = new ScrollPane(createUserLayout);
     scrollPane.setFitToHeight(true);
     scrollPane.setFitToWidth(true);
     primaryStage.setScene(new Scene(scrollPane, 400, 500));
  }
```

```
private void showUpdateOptions(Stage primaryStage, int id) {
  Button updateUserButton = new Button("Update User Details");
  updateUserButton.setOnAction(e -> updateUser(primaryStage, id));
  Button updateAddressButton = new Button("Update Address");
  updateAddressButton.setOnAction(e -> updateAddress(primaryStage, id));
  Button updateEducationButton = new Button("Update Education");
  updateEducationButton.setOnAction(e -> updateEducation(primaryStage, id));
  Button updateEmploymentButton = new Button("Update Employment Info");
  updateEmploymentButton.setOnAction(e -> updateEmployment(primaryStage, id));
  Button updateEmergencyButton = new Button("Update Emergency Contact");
  updateEmergencyButton.setOnAction(e -> updateEmergencyContact(primaryStage, id));
  Button backButton = new Button("Back");
  backButton.setOnAction(e -> showMainMenu(primaryStage));
  VBox updateOptionsLayout = new VBox(10,
    updateUserButton,
    updateAddressButton,
    updateEducationButton,
    updateEmploymentButton,
    updateEmergencyButton,
    backButton
  );
  primaryStage.setScene(new Scene(updateOptionsLayout, 400, 300));
}
private void showMainMenu(Stage primaryStage) {
  TextField nameField = new TextField();
  nameField.setPromptText("Enter your name");
  Button displayButton = new Button("Display User Info");
  Button createButton = new Button("Create a New User");
  displayButton.setOnAction(event -> displayUserInfo(nameField, primaryStage));
  createButton.setOnAction(event -> createNewUser(primaryStage));
  VBox mainMenuLayout = new VBox(10, nameField, displayButton, createButton);
  primaryStage.setScene(new Scene(mainMenuLayout, 400, 300));
```

```
}
  private void updateUser(Stage primaryStage, int id) {
     TextField firstNameField = new TextField();
     firstNameField.setPromptText("First Name");
     TextField lastNameField = new TextField();
     lastNameField.setPromptText("Last Name");
     TextField emailField = new TextField();
     emailField.setPromptText("Email");
     TextField phoneField = new TextField();
     phoneField.setPromptText("Phone Number");
     TextField addressField = new TextField();
     addressField.setPromptText("Address");
     Button saveButton = new Button("Save Changes");
     saveButton.setOnAction(e -> {
       String firstName = firstNameField.getText().trim();
       String lastName = lastNameField.getText().trim();
       String email = emailField.getText().trim();
       String phone = phoneField.getText().trim();
       String address = addressField.getText().trim();
       if (firstName.isEmpty() || lastName.isEmpty() || email.isEmpty() || phone.isEmpty() ||
address.isEmpty()) {
         showAlert("Error", "All fields are required.");
       } else {
         u.updateUser(id, firstName, lastName, email, phone, address);
         showAlert("Success", "User information updated successfully.");
         showMainMenu(primaryStage);
    });
     Button backButton = new Button("Back");
     backButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
     VBox updateUserLayout = new VBox(10,
       new Label("Update User Information"),
       firstNameField.
       lastNameField,
```

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emailField.
     phoneField,
     addressField.
     saveButton,
     backButton
  );
  primaryStage.setScene(new Scene(updateUserLayout, 400, 400));
}
private void updateAddress(Stage primaryStage, int id) {
  TextField streetField = new TextField();
  streetField.setPromptText("Street");
  TextField cityField = new TextField();
  cityField.setPromptText("City");
  TextField stateField = new TextField();
  stateField.setPromptText("State");
  TextField postalCodeField = new TextField();
  postalCodeField.setPromptText("Postal Code");
  Button saveButton = new Button("Save Changes");
  saveButton.setOnAction(e -> {
     String street = streetField.getText().trim();
     String city = cityField.getText().trim();
     String state = stateField.getText().trim();
     String postalCode = postalCodeField.getText().trim();
     if (street.isEmpty() || city.isEmpty() || state.isEmpty() || postalCode.isEmpty()) {
       showAlert("Error", "All fields are required.");
    } else {
       ad.updateAddress(id, street, city, state, postalCode);
       showAlert("Success", "Address updated successfully.");
       showMainMenu(primaryStage);
  });
  Button backButton = new Button("Back");
  backButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
  VBox updateAddressLayout = new VBox(10,
```

```
new Label("Update Address"),
       streetField,
       cityField,
       stateField,
       postalCodeField,
       saveButton,
       backButton
     );
     primaryStage.setScene(new Scene(updateAddressLayout, 400, 400));
  }
  private void updateEducation(Stage primaryStage, int id) {
     TextField degreeField = new TextField();
     degreeField.setPromptText("Degree");
     TextField institutionField = new TextField();
     institutionField.setPromptText("Institution");
     TextField graduationYearField = new TextField();
     graduationYearField.setPromptText("Graduation Year");
     TextField gradeField = new TextField();
     gradeField.setPromptText("Grade");
     Button saveButton = new Button("Save Changes");
     saveButton.setOnAction(e -> {
       String degree = degreeField.getText().trim();
       String institution = institutionField.getText().trim();
       String graduationYear = graduationYearField.getText().trim();
       String grade = gradeField.getText().trim();
       if (degree.isEmpty() || institution.isEmpty() || graduationYear.isEmpty() ||
grade.isEmpty()) {
          showAlert("Error", "All fields are required.");
       } else {
          ed.updateEducation(id, degree, institution, Integer.parseInt(graduationYear), new
BigDecimal(grade));
          showAlert("Success", "Education information updated successfully.");
          showMainMenu(primaryStage);
       }
    });
```

```
Button backButton = new Button("Back");
    backButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
    VBox updateEducationLayout = new VBox(10,
       new Label("Update Education"),
       degreeField,
       institutionField,
       graduationYearField,
       gradeField,
       saveButton,
       backButton
    );
    primaryStage.setScene(new Scene(updateEducationLayout, 400, 400));
  }
  private void updateEmployment(Stage primaryStage, int id) {
    TextField jobTitleField = new TextField();
    jobTitleField.setPromptText("Job Title");
    TextField companyNameField = new TextField();
    companyNameField.setPromptText("Company Name");
    TextField startDateField = new TextField();
    startDateField.setPromptText("Start Date (YYYY-MM-DD)");
    TextField endDateField = new TextField();
    endDateField.setPromptText("End Date");
    Button saveButton = new Button("Save Changes");
    saveButton.setOnAction(e -> {
       String jobTitle = jobTitleField.getText().trim();
       String companyName = companyNameField.getText().trim();
       String startDate = startDateField.getText().trim();
       String endDate = endDateField.getText().trim();
       if (jobTitle.isEmpty() || companyName.isEmpty() || startDate.isEmpty() ||
endDate.isEmpty()) {
         showAlert("Error", "All fields are required.");
       } else {
         emp.updateEmploymentInfo(id, jobTitle, companyName, Date.valueOf(startDate),
Date.valueOf(endDate));
         showAlert("Success", "Employment information updated successfully.");
```

```
showMainMenu(primaryStage);
      }
    });
    Button backButton = new Button("Back");
    backButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
    VBox updateEmploymentLayout = new VBox(10,
       new Label("Update Employment Info"),
       jobTitleField,
       companyNameField,
       startDateField,
       endDateField,
       saveButton,
       backButton
    );
    primaryStage.setScene(new Scene(updateEmploymentLayout, 400, 400));
  }
  private void updateEmergencyContact(Stage primaryStage, int id) {
  TextField contactNameField = new TextField();
  contactNameField.setPromptText("Contact Name");
  TextField relationshipField = new TextField();
  relationshipField.setPromptText("Relationship");
  TextField contactPhoneField = new TextField();
  contactPhoneField.setPromptText("Contact Phone");
  TextField contactEmailField = new TextField();
  contactEmailField.setPromptText("Contact Email");
  Button saveButton = new Button("Save Changes");
  saveButton.setOnAction(e -> {
    String contactName = contactNameField.getText().trim();
    String relationship = relationshipField.getText().trim();
    String contactPhone = contactPhoneField.getText().trim();
    String contactEmail = contactEmailField.getText().trim();
    if (contactName.isEmpty() || relationship.isEmpty() || contactPhone.isEmpty() ||
contactEmail.isEmpty()) {
       showAlert("Error", "All fields are required.");
```

```
} else {
       ec.updateEmergencyContact(id, contactName, relationship, contactPhone,
contactEmail);
       showAlert("Success", "Emergency contact updated successfully.");
       showMainMenu(primaryStage);
    }
  });
  Button backButton = new Button("Back");
  backButton.setOnAction(e -> showUpdateOptions(primaryStage, id));
  VBox updateEmergencyLayout = new VBox(10,
     new Label("Update Emergency Contact"),
    contactNameField,
     relationshipField.
     contactPhoneField,
     contactEmailField,
     saveButton.
    backButton
  );
  primaryStage.setScene(new Scene(updateEmergencyLayout, 400, 400));
}
  private void deleteUser(int id) {
     ad.deleteUser(id);
     ed.deleteUser(id);
     emp.deleteUser(id);
     ec.deleteUser(id);
     u.deleteUser(id);
  }
  private void initializeDatabaseConnection() {
    try {
       con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb", "root",
"Lingeswaran@21");
       u = new user(con);
       ad = new address(con);
       ed = new education(con);
       emp = new employmentInformation(con);
       ec = new emergencyContact(con);
    } catch (SQLException e) {
       showAlert("Database Error", "Unable to connect to the database.");
       e.printStackTrace();
```

```
}
  }
  private void showAlert(String title, String message) {
     Alert alert = new Alert(Alert.AlertType.INFORMATION);
     alert.setTitle(title);
     alert.setHeaderText(null);
     alert.setContentText(message);
     alert.showAndWait();
  }
  public static void main(String[] args) {
     launch(args);
  }
}
Backend Code:
User pakage:
package User;
import java.sql.*;
public class user {
  private Connection con;
  public user (Connection con){
     this.con=con;
  public String showUser(String name) {
     String query = "SELECT * FROM user WHERE first_name = ?";
     String result;
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setString(1, name);
       ResultSet rs = ps.executeQuery();
       if (rs.next()) {
          result = rs.getInt("user id") + " " +
               rs.getString("first_name") + " " +
               rs.getString("last name") + " " +
               rs.getString("email") + " " +
               rs.getString("phone_number") + " " +
               rs.getString("address");
       } else {
          result = "No user found with the name" + name;
       }
```

```
} catch (SQLException e) {
       result = "An error occurred: " + e.getMessage();
    return result;
  }
  public void insertUser(String firstname, String lastname, String email, String phoneno, String
address){
     String query = "insert into user(first name, last name, email, phone number, address)
values (?, ?, ?, ?, ?)";
    try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setString(1, firstname);
       ps.setString(2, lastname);
       ps.setString(3, email);
       ps.setString(4, phoneno);
       ps.setString(5, address);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(e);
    }
  }
  public void updateUser(int userid,String firstname, String lastname,String email,String
phoneno, String address) {
     String query = "update user set
first name=?,last name=?,email=?,phone number=?,address=? where user id=?";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setString(1, firstname);
       ps.setString(2, lastname);
       ps.setString(3, email);
       ps.setString(4, phoneno);
       ps.setString(5, address);
       ps.setInt(6, userid);
       ps.executeUpdate();
    }catch(SQLException e){
       System.err.println("a");
    }
  public void deleteUser(int id){
     String guery = "delete from user where user id=?";
    try(PreparedStatement ps = con.prepareStatement(query)){
       ps.setInt(1, id);
       ps.executeUpdate();
```

```
}catch(SQLException e){
       System.out.println(e);
     }
  }
}
Address package:
package User;
import java.sql.*;
public class address {
  private Connection con;
  public address(Connection con) {
     this.con = con;
  }
  public String showAddress(int id) {
     String query = "SELECT * FROM address WHERE user_id=?";
     String result;
     try (PreparedStatement sc = con.prepareStatement(query)) {
       sc.setInt(1, id);
       try (ResultSet rs = sc.executeQuery()) {
          if (rs.next()) {
             result = rs.getString("street") + " " +
                  rs.getString("city") + " " +
                  rs.getString("state") + " " +
                  rs.getString("postal_code");
          } else {
             result = "No address records found.";
          }
     } catch (SQLException e) {
       result = "An error occurred: " + e.getMessage();
     }
     return result;
  }
  public void insertAddress(int userId, String street, String city, String state, String postalCode){
     String query = "insert into address(user_id, street, city, state, postal_code) values (?, ?, ?,
?, ?)";
```

```
try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, street);
       ps.setString(3, city);
       ps.setString(4, state);
       ps.setString(5, postalCode);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(e);
     }
  }
  public void updateAddress(int userId, String street, String city, String state, String postalCode)
     String query = "update address set user id=?, street=?, city=?, state=?, postal code=?
where user_id=?";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, street);
       ps.setString(3, city);
       ps.setString(4, state);
       ps.setString(5, postalCode);
       ps.setInt(6, userId);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println("");
     }
  }
  public void deleteUser(int id){
     String query = "delete from address where user id=?";
     try(PreparedStatement ps = con.prepareStatement(query)){
       ps.setInt(1, id);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println("address");
  }
}
Education package:
package User;
import java.math.BigDecimal;
```

```
import java.sql.*;
public class education {
  private Connection con;
  public education(Connection con) {
     this.con = con;
  }
  public String showEducation(int id) {
     String query = "SELECT * FROM education WHERE user id=?";
     String result;
     try (PreparedStatement sc = con.prepareStatement(query)) {
       sc.setInt(1, id);
       ResultSet rs = sc.executeQuery();
       if (rs.next()) {
          result = rs.getInt("education_id") + " " +
               rs.getInt("user id") + " " +
               rs.getString("degree") + " " +
               rs.getString("institution_name") + " " +
               rs.getInt("graduation year") + " " +
               rs.getBigDecimal("grade");
       } else {
          result = "No education records found for user with ID " + id;
    } catch (SQLException e) {
       result = "An error occurred: " + e.getMessage();
     return result;
  }
  public void insertEducation(int userId, String degree, String institutionName, int
graduationYear, BigDecimal grade) {
     String query = "insert into education(user_id, degree, institution_name, graduation_year,
grade) values (?, ?, ?, ?, ?)";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, degree);
```

```
ps.setString(3, institutionName);
       ps.setInt(4, graduationYear);
       ps.setBigDecimal(5, grade);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(e);
     }
  }
  public void updateEducation(int userId, String degree, String institutionName, int
graduationYear, BigDecimal grade){
     String query = "update education set user_id=?, degree=?, institution_name=?,
graduation year=?, grade=? where user id=?";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, degree);
       ps.setString(3, institutionName);
       ps.setInt(4, graduationYear);
       ps.setBigDecimal(5, grade);
       ps.setInt(6, userId);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(" ");
     }
  }
  public void deleteUser(int id){
     String query = "delete from education where user id=?";
     try(PreparedStatement ps = con.prepareStatement(query)){
       ps.setInt(1, id);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println("education");
     }
  }
}
Emergencycontact package:
package User;
import java.sql.*;
public class emergencyContact {
  private Connection con;
```

```
public emergencyContact(Connection con) {
     this.con = con;
  }
  public String showEmergencyContacts(int id) {
     String guery = "SELECT * FROM emergency contact WHERE user id=?";
     String result;
     try (PreparedStatement sc = con.prepareStatement(query)) {
       sc.setInt(1, id);
       ResultSet rs = sc.executeQuery();
       if (rs.next()) {
          result = rs.getInt("contact id") + " " +
               rs.getInt("user_id") + " " +
               rs.getString("contact_name") + " " +
               rs.getString("relationship") + " " +
               rs.getString("contact_phone") + " " +
               rs.getString("contact email");
       } else {
          result = "No emergency contact records found for user with ID " + id;
     } catch (SQLException e) {
       result = "An error occurred: " + e.getMessage();
     }
     return result;
  }
  public void insertEmergencyContact(int userId, String contactName, String relationship, String
contactPhone, String contactEmail) {
     String query = "insert into emergency_contact(user_id, contact_name, relationship,
contact phone, contact email) values (?, ?, ?, ?, ?)";
     try (PreparedStatement ps = con.prepareStatement(guery)) {
       ps.setInt(1, userId);
       ps.setString(2, contactName);
       ps.setString(3, relationship);
       ps.setString(4, contactPhone);
       ps.setString(5, contactEmail);
       ps.executeUpdate();
```

```
}catch(SQLException e){
       System.out.println(e);
    }
  }
  public void updateEmergencyContact(int userId, String contactName, String relationship,
String contactPhone, String contactEmail) {
     String query = "update emergency_contact set user_id=?, contact_name=?, relationship=?,
contact phone=?, contact email=? where contact id=?";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, contactName);
       ps.setString(3, relationship);
       ps.setString(4, contactPhone);
       ps.setString(5, contactEmail);
       ps.setInt(6, userId);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(" ");
    }
  public void deleteUser(int id){
     String guery = "delete from emergency contact where user id=?";
     try(PreparedStatement ps = con.prepareStatement(query)){
       ps.setInt(1, id);
       ps.executeUpdate();
    }catch(SQLException e){
       System.out.println("emergency_contact");
  }
}
EmployementInformation package:
package User;
import java.sql.*;
public class employmentInformation {
  private Connection con;
  public employmentInformation(Connection con) {
     this.con = con;
  }
```

```
public String showEmploymentInfo(int id) {
     String query = "SELECT * FROM employment information WHERE user id=?";
     String result;
     try (PreparedStatement sc = con.prepareStatement(query)) {
       sc.setInt(1, id);
       ResultSet rs = sc.executeQuery();
       if (rs.next()) {
          result = rs.getInt("employment id") + " " +
               rs.getInt("user_id") + " " +
               rs.getString("job title") + " " +
               rs.getString("company_name") + " " +
               rs.getDate("start date") + " " +
               rs.getDate("end_date");
       } else {
          result = "No employment records found for user with ID " + id;
    } catch (SQLException e) {
       result = "An error occurred: " + e.getMessage();
    }
    return result;
  }
  public void insertEmploymentInfo(int userId, String jobTitle, String companyName, Date
startDate, Date endDate) {
     String query = "insert into employment_information(user_id, job_title, company_name,
start_date, end_date) values (?, ?, ?, ?, ?)";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, jobTitle);
       ps.setString(3, companyName);
       ps.setDate(4, startDate);
       ps.setDate(5, endDate);
       ps.executeUpdate();
    }catch(SQLException e){
       System.out.println(e);
  }
```

```
public void updateEmploymentInfo(int userId, String jobTitle, String companyName, Date
startDate, Date endDate){
     String query = "update employment_information set user_id=?, job_title=?,
company_name=?, start_date=?, end_date=? where user_id=?";
     try (PreparedStatement ps = con.prepareStatement(query)) {
       ps.setInt(1, userId);
       ps.setString(2, jobTitle);
       ps.setString(3, companyName);
       ps.setDate(4, startDate);
       ps.setDate(5, endDate);
       ps.setInt(6, userId);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println(" ");
     }
  }
  public void deleteUser(int id){
     String query = "delete from employment information where user id=?";
     try(PreparedStatement ps = con.prepareStatement(query)){
       ps.setInt(1, id);
       ps.executeUpdate();
     }catch(SQLException e){
       System.out.println("employment information");
     }
  }
}
```

OUTPUT









