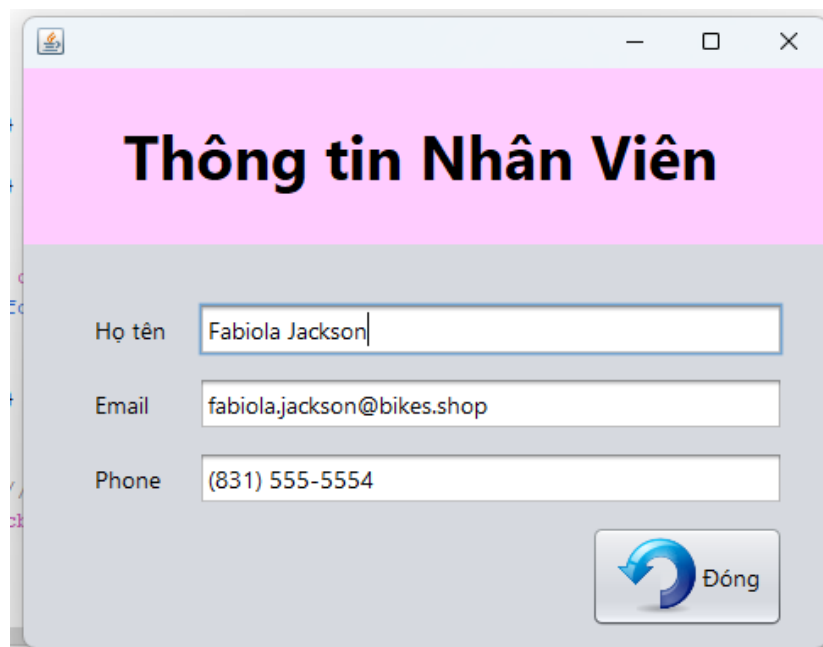
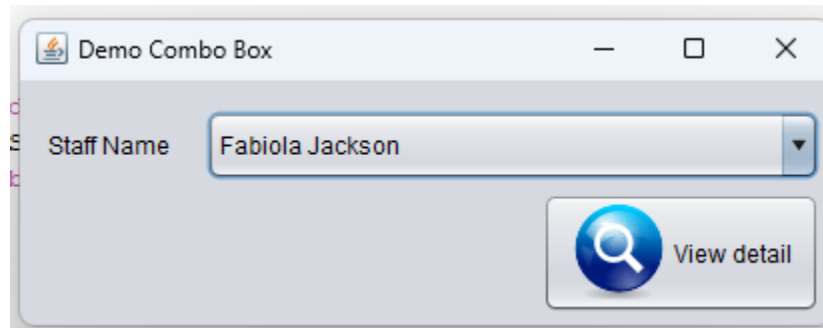


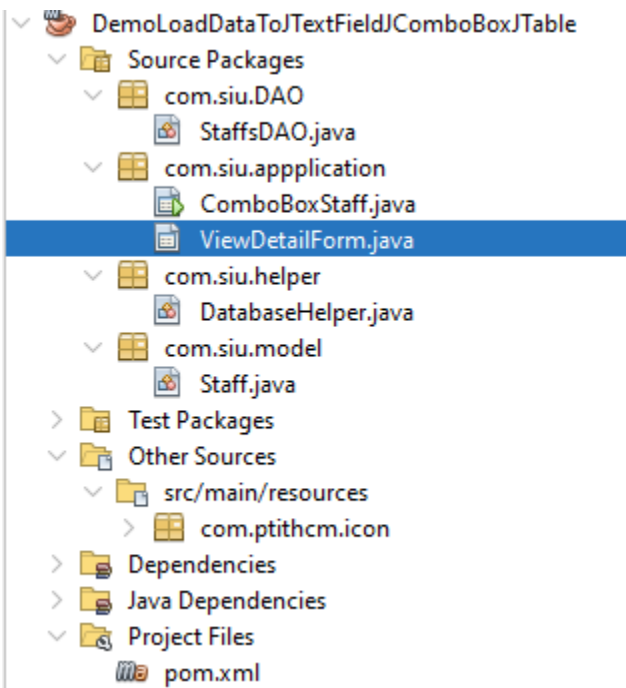
- ❖ Viết chương trình load dữ liệu từ database lên combo box:



- ❖ Tạo database tên staffs như bên dưới:

DESKTOP-KKPI4RD.Java5 - dbo.staffs			
Column Name	Data Type	Allow Nulls	
staff_id	int	<input type="checkbox"/>	
first_name	varchar(50)	<input type="checkbox"/>	
last_name	varchar(50)	<input type="checkbox"/>	
email	varchar(255)	<input type="checkbox"/>	
phone	varchar(25)	<input checked="" type="checkbox"/>	
active	tinyint	<input type="checkbox"/>	
store_id	int	<input type="checkbox"/>	
manager_id	int	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	

❖ Tạo project với cấu trúc như bên dưới:



❖ Kiểm tra version java

```
C:\Users\Hieu Nguyen>java --version
java 17.0.10 2024-01-16 LTS
Java(TM) SE Runtime Environment (build 17.0.10+11-LTS-240)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.10+11-LTS-240, mixed mode, sharing)
```

Search mssql-jdbc trên: <https://mvnrepository.com>

Central (219)		Redhat GA (1)	Redhat EA (1)	ICM (3)
Version		Vulnerabilities		
12.7.x	12.7.0			
	12.7.0.jre11-preview			
	12.7.0.jre8-preview			
12.6.x	12.6.1.jre11			
	12.6.1.jre8			
	12.6.0.jre11			
	12.6.0.jre8			
12.5.x	12.5.0.jre11-preview			
	12.5.0.jre8-preview			
	12.4.2.jre11			
	12.4.2.jre8			
	12.4.1.jre11			
	12.4.1.jre8			

Maven Gradle Gradle (Short) Gradle (Kotlin) SBT Ivy Grape Leiningen Buildr

```
<!-- https://mvnrepository.com/artifact/com.microsoft.sqlserver/mssql-jdbc -->
<dependency>
  <groupId>com.microsoft.sqlserver</groupId>
  <artifactId>mssql-jdbc</artifactId>
  <version>12.6.0.jre11</version>
</dependency>
```

```
<dependencies>
!--      <dependency>
      <groupId>com.microsoft.sqlserver</groupId>
      <artifactId>mssql-jdbc</artifactId>
      <version>6.1.0.jre8</version>
    </dependency>-->

      <dependency>
        <groupId>com.microsoft.sqlserver</groupId>
        <artifactId>mssql-jdbc</artifactId>
        <version>12.6.0.jre11</version>
      </dependency>

</dependencies>
```

❖ Tạo package helper để connect database:

```
package com.siu.helper;

import java.sql.Connection;
import java.sql.DriverManager;

/**
 *
 * @author trung
 */
public class DatabaseHelper {

    public static Connection openConnection() throws Exception {
        Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");
        String connectionURL = "jdbc:sqlserver://localhost;database=Java5";
        String username = "sa";
        String password = "123";
        Connection con = DriverManager.getConnection(connectionURL, username, password);
        return con;
    }
}
```

❖ Tạo đối tượng Staff:

```
public class Staff {  
  
    private int staff_id;  
    private String first_name;  
    private String last_name;  
    private String email;  
    private String phone;  
    private byte active;  
    private int store_id;  
    private int manager_id;  
  
    public Staff() {  
    }  
  
    public Staff(int staff_id, String first_name, String last_name, String email, String phone) {  
        this.staff_id = staff_id;  
        this.first_name = first_name;  
        this.last_name = last_name;  
        this.email = email;  
        this.phone = phone;  
    }  
  
    public Staff(int staff_id, String first_name, String last_name) {  
        this.staff_id = staff_id;  
        this.first_name = first_name;  
        this.last_name = last_name;  
    }  
  
    @Override  
    public String toString() {  
        return first_name + " " + last_name ;  
    }  
}
```

❖ Tạo class DAO của đối tượng Staff:

```

public class StaffsDAO {

    public List<Staff> getAll() throws Exception {
        List<Staff> lstStaffs = new ArrayList<>();
        String sql = "select * from staffs";
        try {
            Connection con = DatabaseHelper.openConnection();
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery(sql); {

                while (rs.next()) {
                    Staff stf = new Staff();
                    stf.setStaff_id(rs.getInt("staff_id"));
                    stf.setFirst_name(rs.getString("first_name"));
                    stf.setLast_name(rs.getString("last_name"));
                    stf.setEmail(rs.getString("email"));
                    stf.setPhone(rs.getString("phone"));

                    lstStaffs.add(stf);
                }
            }
            return lstStaffs;
        }
    }
}

```

```

public Staff findByStaffId(int maId) throws Exception {
    String sql = "select * from staffs where staff_id= ?";
    try {
        Connection con = DatabaseHelper.openConnection();
        PreparedStatement pstmt = con.prepareStatement(sql);
        {
            pstmt.setInt(1, maId);
            ResultSet rs = pstmt.executeQuery();
            if (rs.next()) {
                Staff stf = new Staff();
                stf.setStaff_id(rs.getInt("staff_id"));
                stf.setFirst_name(rs.getString("first_name"));
                stf.setLast_name(rs.getString("last_name"));
                stf.setEmail(rs.getString("email"));
                stf.setPhone(rs.getString("phone"));
                return stf;
            }

            return null;
        }
    }
}

```

❖ Tạo JFrame ComboBox:

```
private DefaultComboBoxModel cbModel = new DefaultComboBoxModel();
/**
 * Creates new form ComboBoxStaff
 */
public ComboBoxStaff() {
    initComponents();
    this.setLocationRelativeTo(null);
    initComboBox();
}

private void initComboBox() {
    List<Staff> lstStaff = new ArrayList<>();
    // cbStaffList = new JComboBox(cbModel);
    try {
        StaffsDAO stfDAO = new StaffsDAO();
        lstStaff = stfDAO.getAll();
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }

    cbModel.removeAllElements();
    for (Staff stf : lstStaff) {
        cbModel.addElement(new Staff(stf.getStaff_id(), stf.getFirst_name(), stf.getLast_name()));
        // tblModel.addRow(new String[]{student.getMaSV(), student.getHolot(), student.getTen(), stuc
    }

    //cbModel.;
    cbStaffList.setModel(cbModel);
}

private void btViewdetailActionPerformed(java.awt.event.ActionEvent evt) {
    ViewDetailForm viewDetail = new ViewDetailForm(((Staff) cbStaffList.getSelectedItem()).getStaff_id());
    viewDetail.setVisible(true);
    //JOptionPane.showConfirmDialog(this, ((Staff) cbStaffList.getSelectedItem()).getStaff_id() );
}
```

- ❖ Tạo JFrame view detail cho Staff:

```
public class ViewDetailForm extends javax.swing.JFrame {

    /**
     * Creates new form ViewDetailForm
     */
    public ViewDetailForm(int maId ) {
        initComponents();
        this.setLocationRelativeTo(null);
        loadDetail(maId);
    }

    private void loadDetail(int maId){
        Staff stf = new Staff();
        try {

            StaffsDAO stfDAO = new StaffsDAO();
            stf = stfDAO.findByStaffId(maId);
            txtHoten.setText(stf.getFirst_name() + " " + stf.getLast_name());
            txtEmail.setText(stf.getEmail());
            txtPhone.setText(stf.getPhone());

        } catch (Exception e) {
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        this.dispose();
    }
}
```