

LAMPIRAN

Source Code Aplikasi Desktop

1. Login

```
package ap1_yk;
import java.beans.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;
public class Login extends javax.swing.JFrame {
    Connection con;
    Statement st;
    ResultSet rs;
    PreparedStatement ps;
    String sql;
    String koneksi =
"jdbc:sqlserver://SHALISUHANAS\\SHALISUHANAS;databaseName=apdb2;user=sa;password=123852sha";
    MainForm mainform = new MainForm();
    public Login() {
        initComponents();
    }
    private void initComponents() {
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jtextuser = new javax.swing.JTextField();
        jlogin = new javax.swing.JButton();
        jPasswordField1 = new javax.swing.JPasswordField();
        jLabel3 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
```

```

        jLabel1.setText("User Name");
        getContentPane().add(jLabel1,                                     new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 110, 90, 22));
        jLabel2.setText("Password");
        getContentPane().add(jLabel2,                                     new
org.netbeans.lib.awtextra.AbsoluteConstraints(60, 160, 62, 22));
        jtextuser.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jtextuserActionPerformed(evt);
            }
        });
        getContentPane().add(jtextuser,                                   new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 110, 218, -1));
        jlogin.setText("Login");
        jlogin.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jloginActionPerformed(evt);
            }
        });
        getContentPane().add(jlogin,                                     new
org.netbeans.lib.awtextra.AbsoluteConstraints(210, 190, 83, -1));
        jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jPasswordField1ActionPerformed(evt);
            }
        });
        getContentPane().add(jPasswordField1,                             new
org.netbeans.lib.awtextra.AbsoluteConstraints(180, 160, 218, -1));
        jLabel3.setIcon(new
javax.swing.ImageIcon("F:\\skripsweet\\angkasapura_3.png")); // NOI18N
        jLabel3.setText("jLabel3");
        getContentPane().add(jLabel3,                                     new
org.netbeans.lib.awtextra.AbsoluteConstraints(0, 10, 480, 300));

```

```

        pack();
    }// </editor-fold>
    private void jloginActionPerformed(java.awt.event.ActionEvent evt) {
        try{
            con = DriverManager.getConnection(konek);
            sql = "select * from login where Username = '"+jtextuser.getText()+"' and
Password = '"+jPasswordField1.getText()+"'";
            ps = con.prepareStatement(sql);
            rs = ps.executeQuery();
            if(rs.next())
            {
                mainform.setVisible(true);
                this.setVisible(false);
            }
            else
            {
                JOptionPane.showMessageDialog(null, "Username atau Password Salah!
Silakan coba lagi");
            }
        }
        catch(SQLException e)
        {
            System.out.println(e);
        }
    }
    private void jtextuserActionPerformed(java.awt.event.ActionEvent evt) {
    }

    private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {
    }
    public static void main(String args[]) {
        try {

```

```

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex)
{java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (InstantiationException ex)
{java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex)
{java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex)
{java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Login().setVisible(true);
        }
    });
}

private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPasswordField jPasswordField1;
private javax.swing.JButton jlogin;
private javax.swing.JTextField jtextuser;
// End of variables declaration

```

```
}
```

2. Main Form

```
package ap1_yk;

import java.beans.Statement;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.URLDecoder;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.engine.JasperExportManager;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.engine.design.JRDesignQuery;
import net.sf.jasperreports.engine.design.JasperDesign;
import net.sf.jasperreports.engine.util.JRLoader;
import net.sf.jasperreports.engine.xml.JRXmlLoader;
import net.sf.jasperreports.view.JasperViewer;
```

```

public class MainForm extends javax.swing.JFrame {

    Connection con;
    Statement st;
    ResultSet rs;
    PreparedStatement ps;
    String sql;
    String          konek          =
"jdbc:sqlserver://SHALISUHANAS\\SHALISUHANAS;databaseName=apdb2;us
er=sa;password=123852sha";
    ArrayList<Integer> listIdJenis = new ArrayList<Integer>();
    ArrayList<String> listNamaJenis = new ArrayList<String>();
    public MainForm() {
        initComponents();
        autonumber();
        tampiltable();
        tampiljenis();
        jtextnomr.setEnabled(false);
    } private void tampiltable()
    {
        try {
            Connection con = DriverManager.getConnection(konek);
            String str = "select data_aset.[nomor], data_aset.[nama_peralatan],
tabeljenis.[JENIS], data_aset.[serial_number], data_aset.[pabrik_pembuat],
data_aset.[merk_type], data_aset.[tahun], data_aset.[daya], data_aset.[kondisi],
data_aset.[penempatan], data_aset.[status], data_aset.[keterangan] from data_aset
inner join tabeljenis on data_aset.idjenis = tabeljenis.ID";
            ps = con.prepareStatement(str);
            rs = ps.executeQuery();

            DefaultTableModel dtm = new DefaultTableModel(0, 0);

```

```

        Object col[] = {"nomor",
        "nama_peralatan", "jenis", "serial_number", "pabrik_pembuat", "merk_type",
        "tahun", "daya", "kondisi", "penempatan", "status", "keterangan"};
        dtm.setColumnIdentifiers(col);
        while (rs.next()) {
            Object rowData[] = {rs.getString(1), rs.getString(2), rs.getString(3),
            rs.getString(4), rs.getString(5), rs.getString(6), rs.getString(7), rs.getString(8),
            rs.getString(9), rs.getString(10), rs.getString(11), rs.getString(12)};
            dtm.addRow(rowData);
        }
        jTable2.setModel(dtm);
    } catch (Exception ex) {
        System.out.println(ex);
    }
}

private String cekSerialNumber(int sn)
{
    String serial = "";
    try
    {
        Connection con = DriverManager.getConnection(konek);
        String sql = "select serial_number from data_aset";
        ps = con.prepareStatement(sql);
        ResultSet rs = ps.executeQuery();
        List<Integer> list_number = new ArrayList<>();
        while(rs.next()){
            list_number.add(rs.getInt("serial_number"));
        }
        if (list_number.contains(sn)) {
            serial = "Serial found";
        } else {
            serial = "Serial not found";
        }
    }
}

```

```

        }
    }
    catch(Exception e){System.out.println(e.toString());
    JOptionPane.showMessageDialog(null, e);
    }
    return serial;
}
private void autonumber()
{
    try
    {
        Connection con = DriverManager.getConnection(konek);
        String sql = "select max(nomor) as nom from data_aset";
        ps = con.prepareStatement(sql);
        ResultSet rs = ps.executeQuery();
        while(rs.next()){
            String a = rs.getString("nom");
            int b = Integer.valueOf(a);
            jtextnomr.setText(Integer.toString(b+1));
        }
    }
    catch(Exception e){System.out.println(e.toString());
    JOptionPane.showMessageDialog(null, e);
    }
}
private int cariId(String namaJenis){
    int id = 0;
    for(int x= 0; x < listNamaJenis.size(); x++){
        if(namaJenis.equals(listNamaJenis.get(x))){
            id = listIdJenis.get(x);
        }
    }
    return id;
}

```



```

}
private void insert()
{
    try
    {
        String temp = cekSerialNumber(Integer.valueOf(jtextsn.getText()));
        con = DriverManager.getConnection(konek);
        ps = con.prepareStatement("INSERT INTO data_aset"
+ "( nomor,nama_peralatan,idjenis,serial_number,pabrik_pembuat, merk_type,
tahun, daya, kondisi, penempatan, status, keterangan)"
+ "VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");
        if(verifyForm()){
            ps.setString(1,jtextnomr.getText());
            ps.setString(2,jtextnp.getText());
            String lapor = JComboBox1.getSelectedItemAt(0).toString();
            int idLapor = cariId(lapor);
            ps.setInt(3, idLapor);
            ps.setString(4, jtextsn.getText());
            ps.setString(5,jtextpp.getText());
            ps.setString(6, jtextmerk.getText());
            ps.setString(7,jtexttahun.getText());
            ps.setString(8,jtextdaya.getText());
            ps.setString(9,jtextkondisi.getText());
            ps.setString(10,jtextpenempatan.getText());
            ps.setString(11,jtextstatus.getText());
            ps.setString(12,jtextket.getText());
        } else {
            JOptionPane.showMessageDialog(this, "Mohon masukan data, jangan ada
yang kosong", "Tidak Bisa Menyimpan", JOptionPane.WARNING_MESSAGE);
        }
        if (temp.equals("Sukses")) {
            JOptionPane.showMessageDialog(this, "Sukses", "Tidak Bisa
Menyimpan", JOptionPane.WARNING_MESSAGE);

```

```

    } else {
        ps.executeUpdate();
        JOptionPane.showMessageDialog(rootPane, "Data berhasil dimasukkan");
    }

    jtextnomr.setText("");
    jtextnp.setText("");
    JComboBox1.setSelectedItem("");
    jtextsn.setText("");
    jtextpp.setText("");
    jtextmerk.setText("");
    jtexttahun.setText("");
    jtextdaya.setText("");
    jtextkondisi.setText("");
    jtextpenempatan.setText("");
    jtextstatus.setText("");
    jtextket.setText("");
    tampiltable(); }
    catch(SQLException x)
    {
        System.out.println(x.toString());
        JOptionPane.showMessageDialog(rootPane, "Data gagal dimasukkan"+x);

    }
}

private void delete(){
    int option = JOptionPane.showConfirmDialog(this, "Apakah anda yakin ingin
menghapus data tersebut?", "Konfirmasi Hapus Data",
JOptionPane.ERROR_MESSAGE);
    if (option == 0) {
        try {
            con = DriverManager.getConnection(konek);
            ps = con.prepareStatement("delete from data_aset where nomor = " +
jtextnomr.getText() + "" + "");

```

```

        ps.executeUpdate();
        JOptionPane.showMessageDialog(rootPane, "Data berhasil dihapus");
        tampiltable();
        bersih();
    } catch (SQLException x) {
        System.out.println(x.toString());
        JOptionPane.showMessageDialog(rootPane, "Data tidak dapat dihapus" +
x.toString());
    }
}
}
private void edit()
{
    int ok=JOptionPane.showConfirmDialog(null,"Apakah anda ingin mengubah
data ini?","Confirmation",JOptionPane.YES_NO_OPTION);
    try {
        con = DriverManager.getConnection(konek);
        sql = "update data_aset set nama_peralatan=?, idjenis=?, serial_number=?,
pabrik_pembuat=?, merk_type=?, tahun=?, daya=?, kondisi=?, penempatan=?,
status=?, keterangan=? where nomor='"+jtextnomr.getText()+"'";
        if (ok==0)
        {
            try
            {
                ps = con.prepareStatement(sql);
                ps.setString(1,jtextnp.getText());
                //ps.setString(2, jtextjenis.getText() );
                //ps.setString(2,jComboBox1.getSelectedItem().toString());
                String lapor = jComboBox1.getSelectedItem().toString();
                int idLapor = cariId(lapor);
                ps.setInt(2, idLapor);
                ps.setString(3, jtextsn.getText());
                ps.setString(4, jtextpp.getText());

```

```

        ps.setString(5, jtextmerk.getText());
        ps.setString(6, jtexttahun.getText());
        ps.setString(7, jtextdaya.getText());
        ps.setString(8, jtextkondisi.getText());
        ps.setString(9, jtextpenempatan.getText());
        ps.setString(10, jtextstatus.getText());
        ps.setString(11, jtextket.getText());
        ps.executeUpdate();
        tampiltable();
        JOptionPane.showMessageDialog(null, "Update Data Sukses");
    } catch (Exception e)
    {
        JOptionPane.showMessageDialog(null, e);
    }
} catch (Exception e) {}
}
private void tampiljenis ()
{
    try {
        con = DriverManager.getConnection(konek);
        sql = "SELECT * FROM tabeljenis";
        ps = con.prepareStatement(sql);
        rs = ps.executeQuery();
        while (rs.next()) {
            listIdJenis.add(rs.getInt("ID"));
            listNamaJenis.add(rs.getString("JENIS"));
            jComboBox1.addItem(rs.getString("JENIS"));
        }
        rs.last();
        int jumlahdata = rs.getRow();
        rs.first();
    } catch (SQLException e) {

```

```

    }
}
private void tampilsearch()
{
    try {
        Connection con = DriverManager.getConnection(konek);
        ps = con.prepareStatement("select data_aset.[nomor],
data_aset.[nama_peralatan], tabeljenis.[JENIS], data_aset.[serial_number],
data_aset.[pabrik_pembuat], data_aset.[merk_type], data_aset.[tahun],
data_aset.[daya], data_aset.[kondisi], data_aset.[penempatan], data_aset.[status],
data_aset.[keterangan] from data_aset inner join tabeljenis on data_aset.idjenis =
tabeljenis.ID where tabeljenis.JENIS=?");
        ps.setString(1, jtextcari.getText());
        rs = ps.executeQuery();
        DefaultTableModel dtm = new DefaultTableModel(0, 0);
        Object col[] =
{"nomor","nama_peralatan","JENIS","serial_number","pabrik_pembuat","merk_ty
pe", "tahun", "daya","kondisi","penempatan","status","keterangan"};
        dtm.setColumnIdentifiers(col);
        while (rs.next()) {
            Object rowData[] = {rs.getString(1), rs.getString(2), rs.getString(3),
rs.getString(4), rs.getString(5), rs.getString(6), rs.getString(7), rs.getString(8),
rs.getString(9), rs.getString(10), rs.getString(11), rs.getString(12)};
            dtm.addRow(rowData);
        }
        jTable2.setModel(dtm);
    } catch (SQLException ex) {
        System.out.println(ex);
    }
}
private void print()
{
    String path = "";

```

```

        try
        {
            path = getClass().getResource("F:/skripsweet/API1_YK/src/ap1_yk/print.jasper").getPath(
            );
            con = DriverManager.getConnection("jdbc:sqlserver://SHALISUHANAS\\SHALISUHA
            NAS;databaseName=apdb2;user=sa;password=123852sha");
            path = URLDecoder.decode(path, "UTF-8");
            Map parameter = new HashMap();
            JasperReport reporte = (JasperReport)JRLoader.loadObject(path);
            JasperPrint btprint = JasperFillManager.fillReport(reporte,parameter,con);
            JasperViewer visor = new JasperViewer(btprint,false);
            visor.setTitle("Laporan Pembukuan Data Karyawan");
            visor.setVisible(true);
        }
        catch (Exception e) {
            JOptionPane.showMessageDialog(null, "Gagal Memuat Laporan" + e);
        }
    }
    private void getPDF()
    {
        try
        {
            InputStream in= new FileInputStream(new File
            ("F:\\coba\\Aplikasi\\src\\ap1_yk\\report1.jrxml"));
            JasperDesign jd=JRXmlLoader.load(in);
            Connection con = DriverManager.getConnection(konek);
            String query= "select * from data_aset";
            JRDesignQuery newQuery=new JRDesignQuery();
            newQuery.setText(query);
            jd.setQuery(newQuery);
            JasperReport jr = JasperCompileManager.compileReport(jd);

```

```

HashMap para = new HashMap();
JasperPrint j = JasperFillManager.fillReport(jr,para,con);
JasperViewer.viewReport(j,false);
File pdf = File.createTempFile("output.", ".pdf");
JasperExportManager.exportReportToPdfStream(j, new FileOutputStream(pdf));
    }
    catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Gagal Memuat Laporan" + e);
    }
}

private void jtextcariActionPerformed(java.awt.event.ActionEvent evt) {
    }

private void jhapusActionPerformed(java.awt.event.ActionEvent evt) {
delete();
}

private void jeditActionPerformed(java.awt.event.ActionEvent evt) {
edit();
}

private void jtambahActionPerformed(java.awt.event.ActionEvent evt) {
insert();
}

private void btprintActionPerformed(java.awt.event.ActionEvent evt) {
    getPDF();
}

private void jtextnpActionPerformed(java.awt.event.ActionEvent evt) {
}

private void jlogoutActionPerformed(java.awt.event.ActionEvent evt) {
    Login login = new Login();
}

```

```

        login.setVisible(true);
        this.hide();
    }
    private void jTable2MouseClicked(java.awt.event.MouseEvent evt) {
        if (jTable2.getRowCount() > 0) {
            jtextnomr.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
0).toString());
            jtextnp.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
1).toString());

jComboBox1.setSelectedItem(jTable2.getValueAt(jTable2.getSelectedRow(),
2).toString());
            jtextsn.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
3).toString());
            jtextpp.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
4).toString());
            jtextmerk.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
5).toString());
            jtexttahun.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
6).toString());
            jtextdaya.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
7).toString());
            jtextkondisi.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
8).toString());
            jtextpenempatan.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
9).toString());
            jtextstatus.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
10).toString());
            jtextket.setText(jTable2.getValueAt(jTable2.getSelectedRow(),
11).toString());
        } }
    private void jcariActionPerformed(java.awt.event.ActionEvent evt) {
        tampilsearch();    } }

```



```

private void jtextnomrActionPerformed(java.awt.event.ActionEvent evt){
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    autonumber();
    bersih();
}

private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
    jComboBox1.setToolTipText("");
}

private void jButtonRefreshActionPerformed(java.awt.event.ActionEvent evt) {
    tampiltable();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    tabeljenis tj = new tabeljenis();
    tj.show();
    this.hide();
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

```

```

java.util.logging.Logger.getLogger(MainForm.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(MainForm.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(MainForm.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex)
{java.util.logging.Logger.getLogger(MainForm.class.getName()).log(java.util.logg
ing.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new MainForm().setVisible(true);
        }
    });
} // Variables declaration - do not modify
private javax.swing.JButton btprint;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButtonRefresh;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;

```

```
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JTable jTable1;
private javax.swing.JTable jTable2;
private javax.swing.JButton jCari;
private javax.swing.JButton jEdit;
private javax.swing.JButton jhapus;
private javax.swing.JButton jlogout;
private javax.swing.JButton jtambah;
private javax.swing.JTextField jtextcari;
private javax.swing.JTextField jtextdaya;
private javax.swing.JTextField jtextket;
private javax.swing.JTextField jtextkondisi;
private javax.swing.JTextField jtextmerk;
private javax.swing.JTextField jtextnomr;
private javax.swing.JTextField jtextnp;
private javax.swing.JTextField jtextpenempatan;
private javax.swing.JTextField jtextpp;
private javax.swing.JTextField jtextsn;
private javax.swing.JTextField jtextstatus;
private javax.swing.JTextField jtexttahun;

// End of variables declaration

private void bersih()
{
    jtextsn.setText("");
    jtextpp.setText("");
    jtextmerk.setText("");
    jtexttahun.setText("");
    jtextdaya.setText("");
}
```

```

        jtextkondisi.setText("");
        jtextpenempatan.setText("");
        jtextstatus.setText("");
        jtextket.setText("");
    }

```

3. Tabel Jenis

```

package ap1_yk;

import java.beans.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class tabeljenis extends javax.swing.JFrame {
    Connection con;
    Statement st;
    ResultSet rs;
    PreparedStatement ps;
    String sql;
    String koneksi = "jdbc:sqlserver://SHALISUHANAS\\SHALISUHANAS;databaseName=apdb2;user=sa;password=123852sha";
    public tabeljenis() {
        initComponents();
        tampiltable();
        autonumber();
        jTextIDJ.setEnabled(false);
    }
    private void autonumber()
    { try

```

```

    {
        Connection con = DriverManager.getConnection(konek);
        String sql = "select max(ID) as nom from tabeljenis";
        ps = con.prepareStatement(sql);
ResultSet rs = ps.executeQuery();
        while(rs.next()){
            int b = rs.getInt("nom");
            jTextIDJ.setText(Integer.toString(b+1));
        }
    }
    catch(Exception e){System.out.println(e.toString());
    JOptionPane.showMessageDialog(null, e);
    }
}
private void tampiltable()
{
    try {
        Connection con = DriverManager.getConnection(konek);
        String str = "select * from tabeljenis";
        ps = con.prepareStatement(str);
        rs = ps.executeQuery();
        DefaultTableModel dtm = new DefaultTableModel(0, 0);
        Object col[] = {"ID" ,"JENIS",};
        dtm.setColumnIdentifiers(col);
        while (rs.next()) {
            Object rowData[] = {rs.getString(1), rs.getString(2)};
            dtm.addRow(rowData);
        }
        jTable1.setModel(dtm);
    } catch (Exception ex) {
        System.out.println(ex);
    }
}
}

```

```

private void tambah(){
    try
    {
        con = DriverManager.getConnection(konek);
        ps = con.prepareStatement("INSERT INTO tabeljenis"
+ "( ID,JENIS)"
+ "VALUES (?, ?)");
        ps.setString(1,jTextIDJ.getText());
        ps.setString(2,jTextJenis.getText().toString());
    ps.executeUpdate();
    JOptionPane.showMessageDialog(rootPane, "Data berhasil dimasukkan");
    tampiltable();
    }
    catch(SQLException x)
    {
        System.out.println(x.toString());
        JOptionPane.showMessageDialog(rootPane, "Data gagal dimasukkan"+x);
    }
}

private void edit ()
{
    try {
        con = DriverManager.getConnection(konek);
        sql = "update tabeljenis set JENIS=? where ID='"+jTextIDJ.getText()+"'";
        ps = con.prepareStatement(sql);
        ps.setString(1,jTextJenis.getText().toString());
        ps.executeUpdate();
        JOptionPane.showMessageDialog(rootPane, "Data berhasil diedit");
        tampiltable();
    }
    catch (SQLException x) {
        System.out.println(x.toString());
        JOptionPane.showMessageDialog(rootPane, "Edit Gagal" );
    }
}

```

```

    }
}
private void hapus ()
{
    try {
        con = DriverManager.getConnection(konek);
        ps = con.prepareStatement("delete from tabeljenis where ID = '" +
jTextIDJ.getText() + "'" + "");
        ps.executeUpdate();
        JOptionPane.showMessageDialog(rootPane, "Data berhasil dihapus");
        tampiltable();
    } catch (SQLException x) {
        System.out.println(x.toString());
        JOptionPane.showMessageDialog(rootPane, "Data tidak dapat dihapus" +
x.toString());
    }
}
private void reset ()
{
    autonumber();
    jTextJenis.setText("");
}
} private void jtambahActionPerformed(java.awt.event.ActionEvent evt) {
tambah();
} private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
if (jTable1.getRowCount() > 0 )
{
    jTextIDJ.setText(jTable1.getValueAt(jTable1.getSelectedRow(),
0).toString());
    jTextJenis.setText(jTable1.getValueAt(jTable1.getSelectedRow(),
1).toString());
} }
private void jeditActionPerformed(java.awt.event.ActionEvent evt) {

```

```

        edit();
    }
    private void jhapusActionPerformed(java.awt.event.ActionEvent evt) {
        hapus();
    }
    private void jresetActionPerformed(java.awt.event.ActionEvent evt) {
        reset();
    }
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        MainForm mn = new MainForm();
        mn.show();
        this.hide();
    }
    public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new tabeljenis().setVisible(true);
            }
        });
    }
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel14;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    private javax.swing.JTextField jTextFieldIDJ;
    private javax.swing.JTextField jTextFieldJenis;
    private javax.swing.JButton jedit;
    private javax.swing.JButton jhapus;
    private javax.swing.JButton jreset;
    private javax.swing.JButton jtambah;
    // End of variables declaration
}

```