LAPORAN PRAKTIKUM

PEMROGRAMAN BERBASIS OBJEK
PERTEMUAN 11

Disusun oleh:

Mohammad Hikam 'Abdul Karim
2211102278
S1 IF-10-Q

PROGRAM STUDI S1
INFORMATIKA FAKULTAS
INFORMATIKA
INSTITUT TEKNOLOGI TELKOM
PURWOKERTO PURWOKERTO
2024

MODUL JAVA DATABASE

GUIDED

1. **Guided 1**

Source code

Apk.java (versi litenya saja, lengkapnya ada di file)

```java
private void btnAddActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql="insert into tbdata values('"
            +tfNo.getText()+"','"
            +tfNama.getText()+"','"
            +tfAlamat.getText()+"','"
            +tfHp.getText()+"')";
        java.sql.Connection conn=(java.sql.Connection)Project1.koneksi.koneksiDB();
        java.sql.PreparedStatement pst=conn.prepareStatement(sql);
        pst.execute();
        JOptionPane.showMessageDialog(null, "Berhasil disimpan");
        tampil_data();
    }
    catch (Exception e){
        JOptionPane.showMessageDialog(null, "Gagal disimpan");
        System.out.println(e.getMessage());
    }
}

private void btnDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        java.sql.Connection conn=(java.sql.Connection)Project1.koneksi.koneksiDB();
        String sql = "delete from tbdata where no='"+tfNo.getText()+"' ";
        java.sql.PreparedStatement pst = conn.prepareStatement(sql);
        pst.executeUpdate(); JOptionPane.showMessageDialog(null,"Data berhasil di hapus");
        tampil_data();
    }
```

```java
    catch (Exception e){
    JOptionPane.showMessageDialog(null,"Proses Penghapusan Gagal");
    System.out.println(e.getMessage());
    }
    }


    private void btnCariActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
            java.sql.Connection conn=(java.sql.Connection)Project1.koneksi.koneksiDB();
            String sql = "Select * from tbdata where no='"+tfCari.getText()+"' or
nama='"+tfCari.getText()+"'";
            java.sql.PreparedStatement pst = conn.prepareStatement(sql);
            ResultSet rs = pst.executeQuery(sql);
            if (rs.next()){
                tfNo.setText(rs.getString(1));
                tfNama.setText(rs.getString(2));
                tfAlamat.setText(rs.getString(3));
                tfHp.setText(rs.getString(4));
                JOptionPane.showMessageDialog(null,"Data tbdata : "
                + tfCari.getText() + " ditemukan, Apakah Anda Ingin Mengedit atau Menghapus?");
            }
        } catch (Exception e){}
        tfCari.requestFocus();
    }

    private void btnEditActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
            String sql = "UPDATE tbdata SET nama=?, alamat=?, hp=? WHERE no=?";
            java.sql.Connection conn = (java.sql.Connection) Project1.koneksi.koneksiDB();
            java.sql.PreparedStatement pst = conn.prepareStatement(sql);
            pst.setString(1, tfNama.getText());
```

```java
        pst.setString(2, tfAlamat.getText());

        pst.setString(3, tfHp.getText());

        pst.setString(4, tfNo.getText());

        int rowsUpdated = pst.executeUpdate();

        if (rowsUpdated > 0) {

            JOptionPane.showMessageDialog(null, "Data berhasil diubah");

            tampil_data();

        } else {

            JOptionPane.showMessageDialog(null, "Tidak ada data yang diubah");

        }

    } catch (Exception e) {

        JOptionPane.showMessageDialog(null, "Gagal mengubah data");

        System.out.println(e.getMessage());

    }

}
```

Koneksi.java

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Project1;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import javax.swing.JOptionPane;


/**
 *
 * @author ACER
 */
```
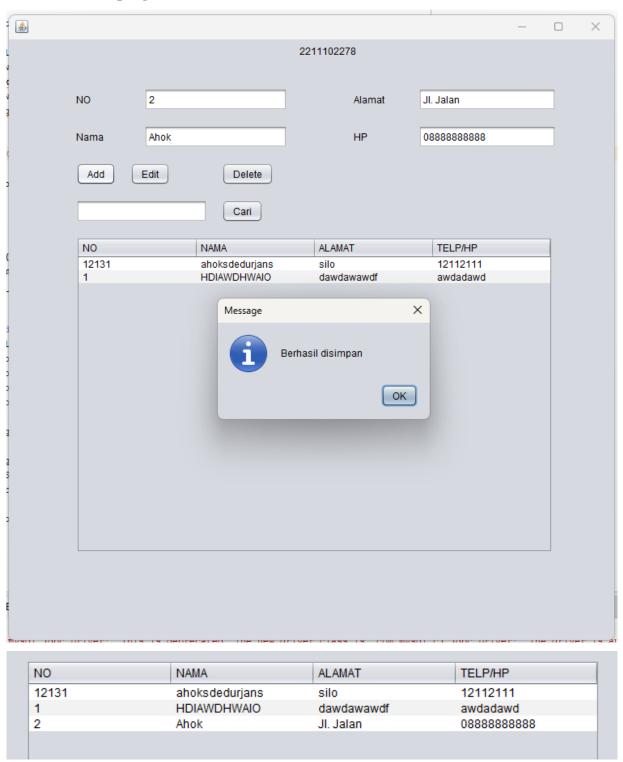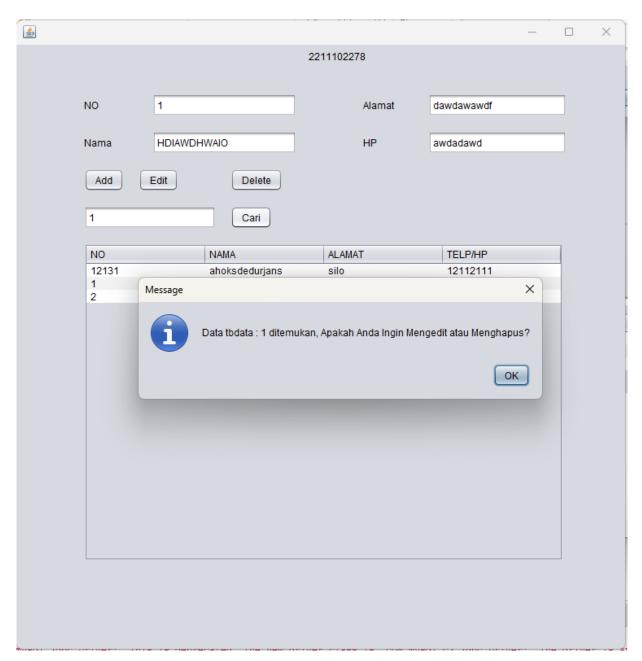
```java
public class koneksi{
    private static Connection mysqlkoneksi;
    public static Connection koneksiDB() throws SQLException{
        if(mysqlkoneksi == null){
            try{
                String DB = "jdbc:mysql://localhost:3306/dbdata";
                String user = "root";
                String pass = "";
                DriverManager.registerDriver(new com.mysql.jdbc.Driver());
                mysqlkoneksi = (Connection) DriverManager.getConnection(DB, user, pass);
            }catch(Exception e){
            }
        }return mysqlkoneksi;
    }
}
```
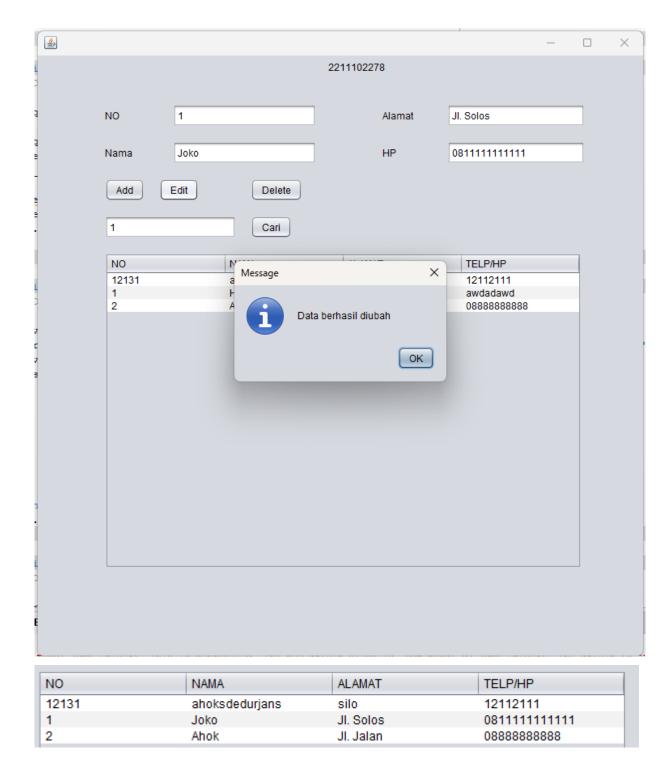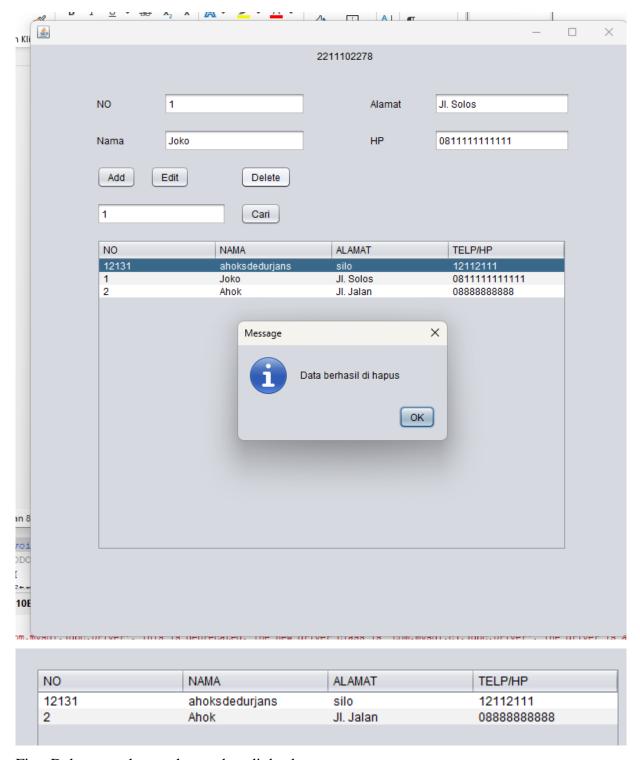
Screenshoot program

Fitur add, untuk menambah data ke database.

Fitur Cari, untuk mencari data di database berdasarkan nomor dan nama.

Fitur Edit, untuk mengedit data di database.

NO	1	Alamat	Jl. Solos
Nama	Joko	HP	0811111111111

Add   Edit   Delete

1   Cari

NO	NAMA	ALAMAT	TELP/HP
12131	ahoksdedurjans	silo	12112111
1	Joko	Jl. Solos	0811111111111
2	Ahok	Jl. Jalan	08888888888

Message   ✕

ℹ Data berhasil di hapus

OK

NO	NAMA	ALAMAT	TELP/HP
12131	ahoksdedurjans	silo	12112111
2	Ahok	Jl. Jalan	08888888888

Fitur Delete, untuk menghapus data di database.

Deskripsi program

Aplikasi diatas adalah aplikasi untuk menyimpan data menggunakan java swing, aplikasi ini dapat menampilkan, menyimpan, mencari, mengedit, dan menghapus data, aplikasi di terhubung dengan database menggunakan JDBC (Java Database Connectivity), kelas apk merupakah kelas yang menyimpan tampilan dan service database, kelas koneksi berfungsi untuk menghungungkan ke database.

File

https://drive.google.com/file/d/1qmG6o_p8lXALdurASe7v3W79KR8-VhBa/view?usp=sharing