

# Tugas Crud sqlite

## 1. buat layout activity\_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/editUsername"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView"
        android:layout_marginTop="34dp"
        android:ems="10"
        android:hint="Username"
        android:inputType="textPersonName" >

        <requestFocus />
    </EditText>

    <EditText
        android:id="@+id/editPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editUsername"
        android:layout_marginTop="15dp"
        android:ems="10"
        android:hint="Password"
        android:inputType="textPassword" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="36dp"
        android:text="FORM LOGIN"
        android:textColor="#00FFFF"
        android:textSize="25sp" />

    <Button
        android:id="@+id/BtnLogout"
        android:layout_width="85dp"
        android:layout_height="50dp"
        android:layout_alignBaseline="@+id/BtnLogin"
        android:layout_alignBottom="@+id/BtnLogin"
        android:layout_marginLeft="54dp"
        android:layout_toRightOf="@+id/BtnLogin"
        android:text="Logout" />

    <Button
        android:id="@+id/BtnLogin"
        android:layout_width="85dp"
```

```

        android:layout_height="50dp"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editPassword"
        android:layout_marginLeft="37dp"
        android:layout_marginTop="57dp"
        android:text="Login" />

```

```

</RelativeLayout>

```

## 2. buat layout activity\_data\_pegawai.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >
    <EditText
        android:id="@+id/editNama"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editID"
        android:ems="10"
        android:hint="Nama Lengkap"
        android:inputType="textPersonName" />

    <EditText
        android:id="@+id/editJabatan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editNama"
        android:ems="10"
        android:hint="Jabatan"
        android:inputType="textPersonName" />

    <EditText
        android:id="@+id/editAlamat"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/editJabatan"
        android:ems="10"
        android:hint="Alamat"
        android:inputType="textPersonName" />

    <Button
        android:id="@+id/btnSimpan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/editAlamat"
        android:layout_marginTop="15dp"
        android:text="Simpan Data" />

    <Button
        android:id="@+id/btnHapus"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/btnEdit"
        android:text="Hapus Data" />

```

```

<Button
    android:id="@+id/btnTampil"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/btnHapus"
    android:text="Tampilkan Seluruh Data" />

<Button
    android:id="@+id/btnEdit"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/btnSimpan"
    android:text="Edit Data" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="16dp"
    android:text="Form Biodata Pegawai"
    android:textSize="18sp" />

<EditText
    android:id="@+id/editID"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView2"
    android:ems="10"
    android:hint="ID Pegawai"
    android:inputType="textPersonName" >

    <requestFocus />
</EditText>

</RelativeLayout>

```

### 3. buat script pada MainActivity.java

```

package com.example.desut;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;

@SuppressLint("NewApi")
public class MainActivity extends Activity {

    private EditText username, password;
    private Button tmb1Login, tmb1Logout;

    @Override

```

```

protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    username = (EditText) findViewById(R.id.editUsername);
    password = (EditText) findViewById(R.id.editPassword);

    tmblLogin = (Button) findViewById(R.id.BtnLogin);
    tmblLogout = (Button) findViewById(R.id.BtnLogout);

    tmblLogin.setOnClickListener(new View.OnClickListener() {

        public void onClick(View v) {

            String nama = username.getText().toString();
            String pass = password.getText().toString();

            if (nama.isEmpty() || pass.isEmpty()){
                errorLogin();
            } else {
                if (nama.equals("admin") && pass.equals("1234")){
                    suceslogin();
                } else {
                    errorLogin();
                }
            }
        }
    });
    tmblLogout.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            System.exit(0);
        }
    });
}

public void errorLogin () {
    Toast.makeText(this, "Login Gagal",
        Toast.LENGTH_SHORT).show();
}

public void suceslogin () {
    Toast.makeText(getApplicationContext(), "Login Sucses",
        Toast.LENGTH_SHORT).show();
    Intent intent = new Intent(MainActivity.this, DataPegawai.class);
    MainActivity.this.startActivity(intent);
    finish();
}
}

```

#### 4. buat class java dengan nama DBHelper

```

package com.example.desut;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

public class DBHelper extends SQLiteOpenHelper {
    public static final String DATABASE_NAME = "biodata.db";
    public static final String TABLE_NAME = "tabel_pegawai";
}

```

```

public static final int DATABASE_VERSION = 1;
public static final String COL_1 = "id";
public static final String COL_2 = "nama";
public static final String COL_3 = "jabatan";
public static final String COL_4 = "alamat";

public DBHelper(Context context){
    super(context, DATABASE_NAME, null, DATABASE_VERSION);
    SQLiteDatabase db = this.getWritableDatabase();
}
@Override
public void onCreate(SQLiteDatabase db){
    db.execSQL("CREATE TABLE tabel_pegawai(id VARCHAR(8) PRIMARY KEY, "
        + "nama TEXT NULL, "
        + "jabatan TEXT NULL, "
        + "alamat TEXT NULL);");
}
@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion){
    db.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);
    onCreate(db);
}
//Simpan Data
public boolean insertData(String id, String nama, String jabatan,
String alamat){
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(COL_1, id);
    contentValues.put(COL_2, nama);
    contentValues.put(COL_3, jabatan);
    contentValues.put(COL_4, alamat);
    long result = db.insert(TABLE_NAME, null, contentValues);
    if (result == -1)
        return false;
    else
        return true;
}
//Ambil Data
public Cursor getAllData(){
    SQLiteDatabase db = this.getWritableDatabase();
    Cursor res = db.rawQuery("SELECT * FROM tabel_pegawai", null);
    return res;
}
//Ubah Data
public boolean updateData(String id, String nama, String jabatan,
String alamat){
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(COL_1, id);
    contentValues.put(COL_2, nama);
    contentValues.put(COL_3, jabatan);
    contentValues.put(COL_4, alamat);
    db.update(TABLE_NAME, contentValues, "ID = ?", new String[]{id});
    return true;
}
//Hapus Data
public int deleteData(String nim){
    SQLiteDatabase db = this.getWritableDatabase();
    return db.delete(TABLE_NAME, "ID = ?", new String[]{nim});
}

```

```
}
```

## 5. Buat class java dengan nama DataPegawai

```
package com.example.desut;

import android.os.Bundle;
import android.app.Activity;
import android.app.AlertDialog;
import android.database.Cursor;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class DataPegawai extends Activity {
    DBHelper myDb;
    EditText edID, edNama, edJabatan, edAlamat;
    Button btnTambahData;
    Button btnTampilData;
    Button btnEditData;
    Button btnHapusData;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_data_pegawai);

        myDb = new DBHelper(this);
        edID = (EditText) findViewById(R.id.editID);
        edNama = (EditText) findViewById(R.id.editNama);
        edJabatan = (EditText) findViewById(R.id.editJabatan);
        edAlamat = (EditText) findViewById(R.id.editAlamat);
        btnTambahData = (Button) findViewById(R.id.btnSimpan);
        btnEditData = (Button) findViewById(R.id.btnEdit);
        btnHapusData = (Button) findViewById(R.id.btnHapus);
        btnTampilData = (Button) findViewById(R.id.btnTampil);

        addData();
        viewAll();
        updateData();
        deleteData();
    }
    //Simpan data
    public void addData() {
        btnTambahData.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                boolean isInserted =
myDb.insertData(edID.getText().toString(),
                    edNama.getText().toString(),
                    edJabatan.getText().toString(),
                    edAlamat.getText().toString());
                if (isInserted == true)
                    Toast.makeText(DataPegawai.this, "Data Berhasil
Disimpan", Toast.LENGTH_LONG).show();
                else
                    Toast.makeText(DataPegawai.this, "Data Gagal Disimpan",
Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

```

//Edit Data
public void updateData() {
    btnEditData.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            boolean isUpdate =
myDb.updateData(edID.getText().toString(),
                edNama.getText().toString(),
                edJabatan.getText().toString(),
                edAlamat.getText().toString());
            if (isUpdate == true)
                Toast.makeText(DataPegawai.this, "Data Berhasil
Diperbaharui", Toast.LENGTH_LONG).show();
            else
                Toast.makeText(DataPegawai.this, "Data Gagal
Diperbaharui", Toast.LENGTH_LONG).show();
        }
    });
}

//Hapus Data
public void deleteData() {
    btnHapusData.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Integer deletedRows =
myDb.deleteData(edID.getText().toString());
            if (deletedRows > 0)
                Toast.makeText(DataPegawai.this, "Data Berhasil
Dihapus", Toast.LENGTH_LONG).show();
            else
                Toast.makeText(DataPegawai.this, "Data Gagal Dihapus",
Toast.LENGTH_LONG).show();
        }
    });
}

//Tampil Seluruh Data
public void viewAll() {
    btnTampilData.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Cursor res = myDb.getAllData();
            if (res.getCount() == 0) {
                showMessage("Error", "Nothing Found");
                return;
            }

            StringBuffer buffer = new StringBuffer();
            while (res.moveToNext()) {
                buffer.append("ID : " + res.getString(0)+"\n");
                buffer.append("NAMA : " + res.getString(1)+"\n");
                buffer.append("JABATAN : " + res.getString(2)+"\n");
                buffer.append("ALAMAT : " + res.getString(3)+"\n");
            }
            showMessage("Data", buffer.toString());
        }
    });
}

//Alert Dialog
public void showMessage(String title, String Message){
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setCancelable(true);
    builder.setTitle(title);
}

```

```
        builder.setMessage(Message);  
        builder.show();  
    }  
}
```

6. Buat activity baru pada AndroidManifest.xml dengan nama yang sama pada class java

```
<activity  
    android:name="DataPegawai"  
    android:label="@string/app_name" >  
    <intent-filter>  
        <action android:name="android.intent.action.MAIN" />  
  
        <category android:name="android.intent.category.LAUNCHER"  
            />  
    </intent-filter>  
</activity>
```