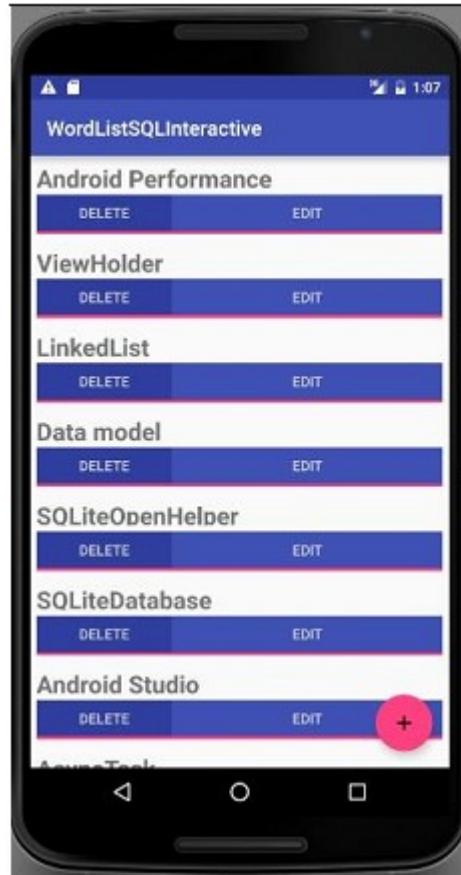
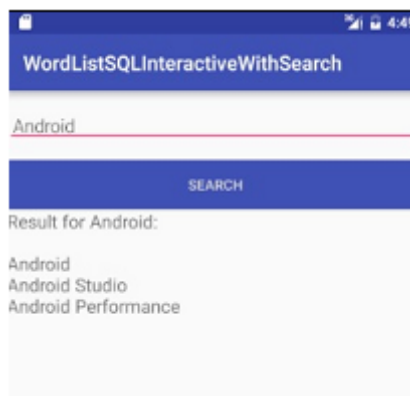


Pertemuan 8 : SQLite

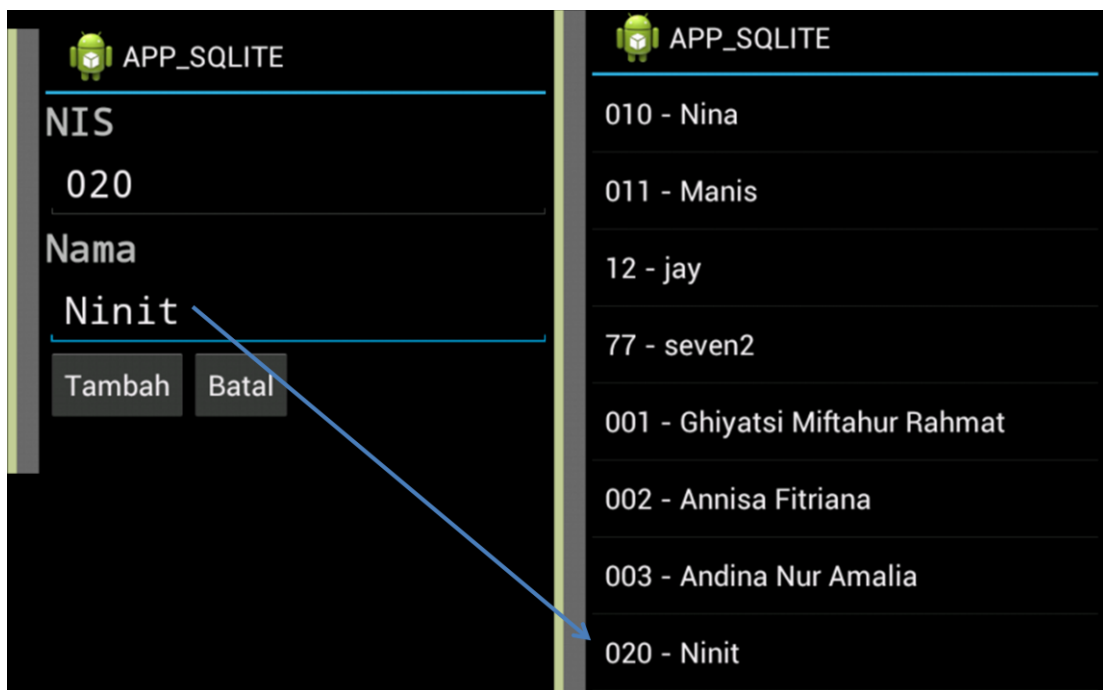
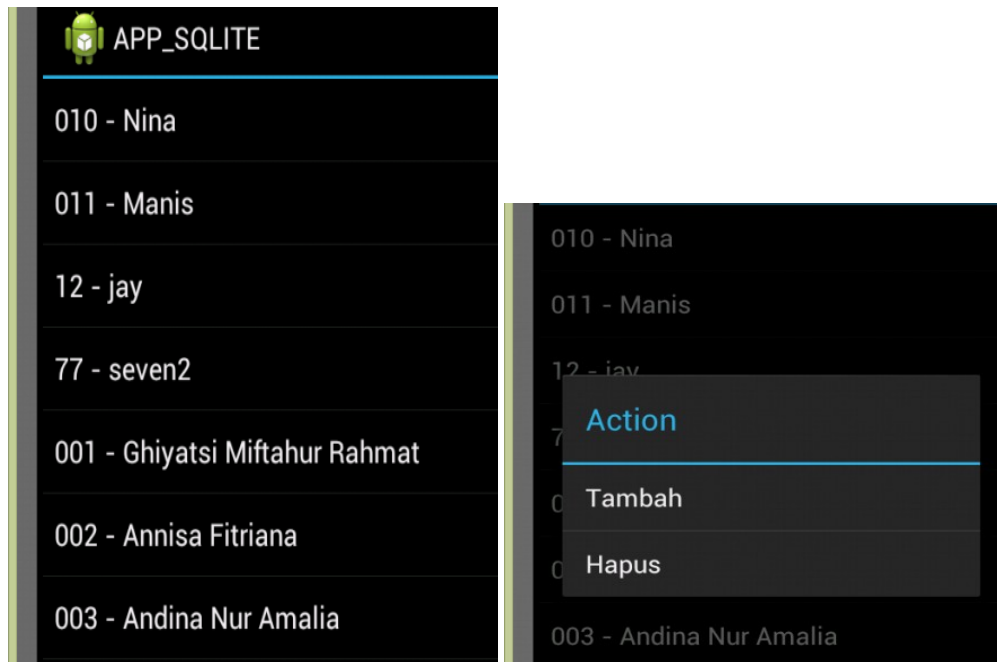
1. Buat App WordListSQLInteractive seperti gambar berikut :



2. Buat App WordListSQLInteractiveWithSearch berikut !



3. Buat App Data Siswa berikut :



4. Buat Aplikasi Input Data Barang dengan struktur sebagai berikut :

KdBrg	NmBrg	HrgBeli	HrgJual	Stok
B0001	Buku	5000	6000	100
B0002	Spidol	3500	4000	50

Lampiran code siswa :

```
---- -class Siswa -----  
public class Siswa {  
    private String nis;  
    private String nama;  
    public Siswa() {  
    }  
    public Siswa(String nis, String nama) {  
        this.nis= nis;  
        this.nama= nama;  
    }  
    public String getNis() {  
        return nis;  
    }  
    public void setNis(String nis) {  
        this.nis= nis;  
    }  
    public String getNama() {  
        return nama;  
    }  
    public void setNama(String nama) {  
        this.nama= nama;  
    }  
}
```

```
---- class DatabaseHandler-----  
import java.util.ArrayList;  
import java.util.List;  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;
```

```

import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.widget.Toast;

public class DatabaseHandler extends SQLiteOpenHelper {
    private static final int DATABASE_VERSION= 1;
    // NamaDatabase
    private static final String DATABASE_NAME= "Sekolah";
    // NamaTable
    private static final String TABLE_SISWA= "Siswa";
    // NamaKolomTable Siswa
    private static final String KEY_NIS= "nis";
    private static final String KEY_NAMA= "nama";
    public DatabaseHandler(Context context) {
        // TODOAuto-generated constructor stub
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }
    @Override
    public void onCreate(SQLiteDatabase db) {
        // TODOAuto-generated method stub
        String query_table_siswa = "CREATE TABLE "+
TABLE_SISWA+ "("
        + KEY_NIS+ " TEXT PRIMARY KEY,"+ KEY_NAMA+ " TEXT)";
        db.execSQL(query_table_siswa);
    }
    @Override
    public void onUpgrade(SQLiteDatabase db, int
oldVersion, int newVersion) {
        // TODOAuto-generated method stub
        // Drop older table if existed
        db.execSQL("DROP TABLE IF EXISTS "+ TABLE_SISWA);
        // Create tables again
        onCreate(db);
    }
    // MenambahSiswaBaru
    public void addSiswa(Siswa siswa) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues values = new ContentValues();
        values.put(KEY_NIS, siswa.getNis());
        values.put(KEY_NAMA, siswa.getNama());
        // Inserting Row
        db.insert(TABLE_SISWA, null, values);
        db.close(); //
    }
    // MembacaSiswa
    public Siswa getSiswa(String nis) {

```

```

        SQLiteDatabase db = this.getReadableDatabase();
        Cursor cursor = db.query(TABLE_SISWA, new String[] {
            KEY_NIS, KEY_NAMA}, KEY_NIS+ "=?",
            new String[] {nis}, null, null, null, null);
        if(cursor != null)
            cursor.moveToFirst();
        Siswa siswa = new Siswa(cursor.getString(0),
            cursor.getString(1));
        return siswa;
    }
    // MembacaSemuaSiswa
    public List<Siswa> getSemuaSiswa() {
        List<Siswa> siswaList = new ArrayList<Siswa>();
        String query_select_siswa = "SELECT * FROM " +
            TABLE_SISWA;
        SQLiteDatabase db = this.getWritableDatabase();
        Cursor cursor = db.rawQuery(query_select_siswa,
            null);
        if(cursor.moveToFirst()) {
            do{
                Siswa siswa = new Siswa(cursor.getString(0),
                    cursor.getString(1));
                siswaList.add(siswa);
            } while(cursor.moveToNext());
        }
        return siswaList;
    }
    public void deleteSiswa(Siswa siswa) {
        SQLiteDatabase db = this.getWritableDatabase();
        // db.delete(TABLE_SISWA, KEY_NIS+ " = ?", new String[]
        { siswa.getNis()});
        db.delete(TABLE_SISWA, KEY_NIS+ "='" +
            siswa.getNis()+"'", null);
        db.close();
        System.out.println("Data terhapus "+siswa.getNis());
    }
    public void deleteRow(String xnis) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_SISWA, KEY_NIS+ "='" +
            xnis+"'", null);
        db.close();
        System.out.println("Data terhapus "+xnis);
    }
}

```

```

----- MainActivity -----
package a71b.android.app_sqlite;

import java.util.List;
import android.app.ListActivity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.ContextMenu;
import android.view.ContextMenu.ContextMenuInfo;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.AdapterContextMenuInfo;
import android.widget.ArrayAdapter;
import android.widget.ListView;

public class APP_SQLITEActivity extends ListActivity {
    /** Called when the activity is first created. */
    String dataSiswa[] = null;
    String dS[] = null;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        // setContentView(R.layout.main);
        DatabaseHandler db = new DatabaseHandler(this);
        // Tambah Siswa
        Log.d("Tambah Siswa: ", "Menambah Data Siswa..");
        db.addSiswa(new Siswa("001", "Ghiyatsi Miftahur
Rahmat"));
        db.addSiswa(new Siswa("002", "Annisa Fitriana"));
        db.addSiswa(new Siswa("003", "Andina Nur
Amalia"));
        // Membaca Semua Siswa
        Log.d("Baca Siswa: ", "Membaca Semua Data
Siswa..");
        List<Siswa> siswa = db.getSemuaSiswa();
        dataSiswa= new String[siswa.size()];
        dS= new String[siswa.size()];
        int i=0;
        for(Siswa s : siswa) {
            String log = "NIS: " + s.getNis() + ", Nama: " +
s.getNama();
            Log.d("Name: ", log);
            dataSiswa[i] = s.getNis() + " - " + s.getNama();
            dS[i] = s.getNis();

```

```

        i++;
    }
    setListAdapter(new ArrayAdapter<Object>(this,
        android.R.layout.simple_list_item_1,
        dataSiswa));
    registerForContextMenu(getListView());
}
@Override
public void onCreateContextMenu(ContextMenu menu,
View v,
    ContextMenuInfo menuInfo) {
    // TODOAuto-generated method stub
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("Action");
    menu.add(0,0,0,"Tambah");
    menu.add(0,1,1,"Hapus");
}
@Override
public boolean onContextItemSelected(Menu.Item item) {
    // TODOAuto-generated method stub
    try{
        switch(item.getItemId()){
            case 0:{
                Class c =
Class.forName("a71b.android.app_sqlite.TambahActivity");
                Intent i = new Intent(APP_SQLITEActivity.this,
c);
                startActivity(i); break;
            }
            case 1:{
                DatabaseHandler db = new
DatabaseHandler(this);

                AdapterView.AdapterContextMenuInfo info =
                    (AdapterView.AdapterContextMenuInfo)
item.getMenuInfo();
                //String[] args = {
String.valueOf(info.id) };
                db.deleteRow(ds[0]);

                Class c =
Class.forName("a71b.android.app_sqlite.APP_SQLITEActivity
");
                Intent i = new
Intent(APP_SQLITEActivity.this, c);
                startActivity(i);
            }
        }
    }
}

```

```

        break;
    }
}
    } catch(ClassNotFoundException e) {
// TODOAuto-generated catch block
    e.printStackTrace();
    }
return true;
}
}

```

```

----- TambahActivity -----
package a71b.android.app_sqlite;

```

```

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class TambahActivity extends Activity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.tambah);
        final DatabaseHandler db = new DatabaseHandler(this);
        final      EditText      editNis      =      (EditText)
findViewById(R.id.editNis);
        final      EditText      editNama      =      (EditText)
findViewById(R.id.editNama);
        Button      btnTambah      =      (Button)
findViewById(R.id.btnTambah);
        Button      btnBatal      =      (Button)
findViewById(R.id.btnBatal);
        btnTambah.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String nis = editNis.getText().toString();
                String nama = editNama.getText().toString();
                db.addSiswa(new Siswa(nis, nama));
                editNis.setText("");
                editNama.setText("");
            }
        });
    }
}

```



```

        Class c =
Class.forName("a71b.android.app_sqlite.APP_SQLITEActivity
");
        Intent i = new Intent(TambahActivity.this, c);
        startActivity(i);
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
    });
    btnBatal.setOnClickListener(new
View.OnClickListener() {
        public void onClick(View v) {
            // TODO Auto-generated method stub
            try {
                Class c =
Class.forName("a71b.android.app_sqlite.APP_SQLITEActivity
");
                Intent i=new
Intent(TambahActivity.this,c);
                startActivity(i);
            } catch (ClassNotFoundException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
    });
}
}

```