App1

public class SinhVien {

private int id;

private String name;

private String class\_name;

private String subject;}

public class SinhVienManager extends SQLiteOpenHelper {

SQLiteDatabase sqLiteDatabase = getWritableDatabase();

public SinhVienManager(Context context, String name, SQLiteDatabase.CursorFactory factory, int version) {

super(context, name, factory, version);

}

public void action(String sql) {

sqLiteDatabase.execSQL(sql);

}

public Cursor select(String sql) {

return sqLiteDatabase.rawQuery(sql, null);

}

public int delete(String id) {

return sqLiteDatabase.delete("SinhVien", "id=" + id, null);

}

public long insert(SinhVien sinhVien) {

System.out.println(sinhVien);

ContentValues values = new ContentValues();

values.put("name", sinhVien.getName());

values.put("class\_name", sinhVien.getClass\_name());

values.put("subject", sinhVien.getSubject());

return sqLiteDatabase.insert("SinhVien", null, values);

}

public int update(SinhVien sinhVien) {

ContentValues values = new ContentValues();

values.put("name", sinhVien.getName());

values.put("class\_name", sinhVien.getClass\_name());

values.put("subject", sinhVien.getSubject());

return sqLiteDatabase.update("SinhVien", values, "id=" + sinhVien.getId(), null);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

}

}

public class ProviderManager extends ContentProvider {

public static UriMatcher URI\_MATCHER;

SinhVienManager manager;

@Override

public boolean onCreate() {

URI\_MATCHER = new UriMatcher(UriMatcher.NO\_MATCH);

URI\_MATCHER.addURI("com.example.app1.SV", "SinhVien", 1);

manager = new SinhVienManager(getContext(), "SVDB.sqlite", null, 1);

return false;

}

@Nullable

@Override

public Cursor query(@NonNull Uri uri, @Nullable String[] strings, @Nullable String s, @Nullable String[] strings1, @Nullable String s1) {

System.out.println(uri.getPath());

System.out.println("id -> " + uri.getQueryParameter("id"));

System.out.println("name -> " + uri.getQueryParameter("name"));

System.out.println("class -> " + uri.getQueryParameter("class"));

System.out.println("subject -> " + uri.getQueryParameter("subject"));

System.out.println("# ->" + uri.getEncodedFragment());

switch (Integer.parseInt(uri.getEncodedFragment())) {

case 1: // select

Cursor cursor = manager.select("select \* from SinhVien");

System.out.println(cursor.getCount());

return cursor;

case 2: // insert

manager.insert(new SinhVien(uri.getQueryParameter("name"), uri.getQueryParameter("class"), uri.getQueryParameter("subject")));

return null;

case 3: // update

manager.update(new SinhVien(Integer.parseInt(uri.getQueryParameter("id")), uri.getQueryParameter("name"), uri.getQueryParameter("class"), uri.getQueryParameter("subject")));

return null;

case 4: // delete

manager.delete(uri.getQueryParameter("id"));

return null;

}

Cursor cursor = manager.select("select \* from SinhVien");

System.out.println(cursor.getCount());

return cursor;

}

@Nullable

@Override

public String getType(@NonNull Uri uri) {

return null;

}

@Nullable

@Override

public Uri insert(@NonNull Uri uri, @Nullable ContentValues contentValues) {

return null;

}

@Override

public int delete(@NonNull Uri uri, @Nullable String s, @Nullable String[] strings) {

return 0;

}

@Override

public int update(@NonNull Uri uri, @Nullable ContentValues contentValues, @Nullable String s, @Nullable String[] strings) {

return 0;

}

}

package com.example.app1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.ContentResolver;

import android.database.Cursor;

import android.net.Uri;

import android.os.Bundle;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.Toast;

import java.util.ArrayList;

import java.util.Collections;

public class MainActivity extends AppCompatActivity {

ArrayAdapter adapter;

ArrayList arrayList = new ArrayList();

SinhVienManager db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

db = new SinhVienManager(this, "SVDB.sqlite", null, 1);

db.action("create table if not exists SinhVien(id integer primary key autoincrement, name text, class\_name text, subject text)");

db.action("insert into SinhVien values(null, 'Trinh Duc Dat', 'KTPM12A', 'mssv: 16043051')");

Cursor cs = db.select("select \* from SinhVien");

Toast.makeText(this, "" + cs.getCount(), Toast.LENGTH\_SHORT).show();

// app 1 không cần giao diện cũng

// chú ý file AndroidManifest.xml cả 2 app

}

}

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.app1">

<permission

android:name="com.example.app1.R"

android:label="readPermission"

android:protectionLevel="normal">

</permission>

<permission

android:name="com.example.app1.W"

android:label="writePermission"

android:protectionLevel="normal">

</permission>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<provider

android:authorities="com.example.app1.SV"

android:name=".ProviderManager"

android:enabled="true"

android:exported="true"

android:readPermission="com.example.app1.R"

android:writePermission="com.example.app1.W">

</provider>

</application>

</manifest>