strings.xml

```xml
<resources>
    <string name="app_name">EtudiantsSQLite</string>
    <string name="hello">Hello World, MyApp!</string>
    <string name="hello_world">Hello world!</string>
    <string name="action_settings">Settings</string>
    <string name="title">Informations Etudiant</string>
    <string name="roll_no">Num Etudiant: </string>
    <string name="name">Nom Etudiant: </string>
    <string name="marks">Note Etudiant: </string>
    <string name="add">Ajouter</string>
    <string name="delete">Supprimer</string>
    <string name="modify">Modifier</string>
    <string name="view">Afficher</string>
    <string name="view_all">Liste Etudiants</string>
    <string name="show_info">Show Information</string>
</resources>
```

activity_main.xml

```xml
<AbsoluteLayout 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" android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin" tools:context=".MainActivity">

    <TextView android:text="@string/title"
        android:layout_x="110dp"
        android:layout_y="10dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <TextView android:text="@string/roll_no"
        android:layout_x="30dp"
        android:layout_y="50dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <EditText android:id="@+id/editRollno"
        android:inputType="number"
        android:layout_x="150dp"
        android:layout_y="50dp"
        android:layout_width="150dp"
        android:layout_height="40dp"/>
    <TextView android:text="@string/name"
        android:layout_x="30dp"
        android:layout_y="100dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <EditText android:id="@+id/editName"
        android:inputType="text"
        android:layout_x="150dp"
        android:layout_y="100dp"
        android:layout_width="150dp"
        android:layout_height="40dp"/>
    <TextView android:text="@string/marks"
        android:layout_x="30dp"
        android:layout_y="150dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <EditText android:id="@+id/editMarks"
        android:inputType="number"
        android:layout_x="150dp"
        android:layout_y="150dp"
```

```xml
        android:layout_width="150dp"
        android:layout_height="40dp"/>
    <Button        android:id="@+id/btnAdd"
        android:text="@string/add"
        android:layout_x="30dp"
        android:layout_y="200dp"
        android:layout_width="100dp"
        android:layout_height="40dp"/>
    <Button        android:id="@+id/btnDelete"
        android:text="@string/delete"
        android:layout_x="150dp"
        android:layout_y="200dp"
        android:layout_width="100dp"
        android:layout_height="40dp"/>n
    <Button    android:id="@+id/btnModify"
        android:text="@string/modify"
        android:layout_x="30dp"
        android:layout_y="250dp"
        android:layout_width="100dp"
        android:layout_height="40dp"/>
    <Button    android:id="@+id/btnView"
        android:text="@string/view"
        android:layout_x="150dp"
        android:layout_y="250dp"
        android:layout_width="100dp"
        android:layout_height="40dp"/>
    <Button    android:id="@+id/btnViewAll"
        android:text="@string/view_all"
        android:layout_x="30dp"
        android:layout_y="300dp"
        android:layout_width="220dp"
        android:layout_height="40dp"/>

</AbsoluteLayout>
```

MainActivity.java

```java
package dsi.isetj.studentsqlite;

import android.app.Activity;
import android.app.AlertDialog;
import android.app.AlertDialog.Builder;
import android.content.Context;
import android.content.DialogInterface;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.content.ContentValues;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends Activity implements OnClickListener
{
    EditText editRollno,editName,editMarks;
    Button btnAdd,btnDelete,btnModify,btnView,btnViewAll,btnShowInfo;
    SQLiteDatabase db;
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState)
```

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```java
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editRollno=(EditText)findViewById(R.id.editRollno);
        editName=(EditText)findViewById(R.id.editName);
        editMarks=(EditText)findViewById(R.id.editMarks);
        btnAdd=(Button)findViewById(R.id.btnAdd);
        btnDelete=(Button)findViewById(R.id.btnDelete);
        btnModify=(Button)findViewById(R.id.btnModify);
        btnView=(Button)findViewById(R.id.btnView);
        btnViewAll=(Button)findViewById(R.id.btnViewAll);

        btnAdd.setOnClickListener(this);
        btnDelete.setOnClickListener(this);
        btnModify.setOnClickListener(this);
        btnView.setOnClickListener(this);
        btnViewAll.setOnClickListener(this);

        db=openOrCreateDatabase("StudentDB", Context.MODE_PRIVATE, null);
        db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR PRIMARY KEY,name VARCHAR,marks VARCHAR);");
    }
    public void onClick(View view)
    {
        if(view==btnAdd)
        {
            if(editRollno.getText().toString().trim().length()==0||
                    editName.getText().toString().trim().length()==0||
                    editMarks.getText().toString().trim().length()==0)
            {
                showMessage("Erreur", "Veuillez remplir tous les champs");
                return;
            }
            ContentValues values = new ContentValues();
            values.put("rollno", String.valueOf(editRollno.getText()));
            values.put("name", String.valueOf(editName.getText()));
            values.put("marks", String.valueOf(editMarks.getText()));
            db.insert("Student", "", values);
            showMessage("Succès", "Enregistrement ajouté");
            clearText();
        }
        if(view==btnDelete)
        {
            if(editRollno.getText().toString().trim().length()==0)
            {
                showMessage("Erreur", "Veuillez saisir un numéro d'étudiant");
                return;
            }
            Cursor c=db.rawQuery("SELECT * FROM student WHERE rollno='"+editRollno.getText()+"'",
null);
            if(c.moveToFirst())
            {
                db.delete("student","rollno = "+editRollno.getText(),null);
                showMessage("Succès", "Enregistement supprimé");
            }
            else
            {
                showMessage("Erreur", "Numéro invalid d'étudiant");
            }
            clearText();
        }
```

```java
    if(view==btnModify)
    {
        if(editRollno.getText().toString().trim().length()==0)
        {
            showMessage("Erreur", "Veuillez saisir un numéro d'étudiant");
            return;
        }
        Cursor c=db.rawQuery("SELECT * FROM student WHERE rollno='"+editRollno.getText()+"'",
null);
        if(c.moveToFirst())
        {
            ContentValues values = new ContentValues();
            values.put("name",String.valueOf(editName.getText()));
            values.put("marks",String.valueOf(editMarks.getText()));
            db.update("student",values,"rollno ="+editRollno.getText(),null);
            showMessage("Succés", "Enregistrement modifié");
        }
        else
        {
            showMessage("Erreur", "Numéro invalide d'étudiant");
        }
        clearText();
    }
    if(view==btnView)
    {
        if(editRollno.getText().toString().trim().length()==0)
        {
            showMessage("Erreur", "Veuillez saisir un numéro d'étudiant");
            return;
        }
        Cursor c=db.rawQuery("SELECT * FROM student WHERE rollno='"+editRollno.getText()+"'",
null);
        if(c.moveToFirst())
        {
            editName.setText(c.getString(1));
            editMarks.setText(c.getString(2));
        }
        else
        {
            showMessage("Erreur", "Numéro invalide d'étudiant");
            clearText();
        }
    }
    if(view==btnViewAll)
    {
        Cursor c=db.rawQuery("SELECT * FROM student", null);
        if(c.getCount()==0)
        {
            showMessage("Erreur", "Aucun enregistrement trouvé");
            return;
        }
        StringBuffer buffer=new StringBuffer();
        while(c.moveToNext())
        {
            buffer.append("Num: "+c.getString(0)+"\n");
            buffer.append("Nom: "+c.getString(1)+"\n");
            buffer.append("Note: "+c.getString(2)+"\n\n");
        }
        showMessage("Informations Etudiant", buffer.toString());
    }
 }
```

Corr TP SQLite

```java
public void showMessage(String title,String message)
{

    AlertDialog alertDialog;
    alertDialog = new AlertDialog.Builder(this).create();
    alertDialog.setTitle(title);
    alertDialog.setMessage(message);
    alertDialog.setButton("OK", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            dialog.dismiss();
        }
    });

    alertDialog.show();
}
public void clearText()
{
    editRollno.setText("");
    editName.setText("");
    editMarks.setText("");
    editRollno.requestFocus();
}
}
```