**File.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="50dp"  
 android:layout\_y="20dp"  
 android:text="Student Details"  
 android:textSize="30sp" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="20dp"  
 android:layout\_y="110dp"  
 android:text="Enter Rollno:"  
 android:textSize="20sp" />  
  
 <EditText  
 android:id="@+id/Rollno"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="175dp"  
 android:layout\_y="100dp"  
 android:inputType="number"  
 android:textSize="20sp" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="20dp"  
 android:layout\_y="160dp"  
 android:text="Enter Name:"  
 android:textSize="20sp" />  
  
 <EditText  
 android:id="@+id/Name"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="175dp"  
 android:layout\_y="150dp"  
 android:inputType="text"  
 android:textSize="20sp" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="20dp"  
 android:layout\_y="210dp"  
 android:text="Enter Marks:"  
 android:textSize="20sp" />  
  
 <EditText  
 android:id="@+id/Marks"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="175dp"  
 android:layout\_y="200dp"  
 android:inputType="number"  
 android:textSize="20sp" />  
  
 <Button  
 android:id="@+id/Insert"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="25dp"  
 android:layout\_y="300dp"  
 android:text="Insert"  
 android:textSize="30dp" />  
  
 <Button  
 android:id="@+id/Delete"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="200dp"  
 android:layout\_y="300dp"  
 android:text="Delete"  
 android:textSize="30dp" />  
  
 <Button  
 android:id="@+id/Update"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="25dp"  
 android:layout\_y="400dp"  
 android:text="Update"  
 android:textSize="30dp" />  
  
 <Button  
 android:id="@+id/View"  
 android:layout\_width="150dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="200dp"  
 android:layout\_y="400dp"  
 android:text="View"  
 android:textSize="30dp" />  
  
 <Button  
 android:id="@+id/ViewAll"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_x="100dp"  
 android:layout\_y="500dp"  
 android:text="View All"  
 android:textSize="30dp" />  
  
</AbsoluteLayout>

**File:java**

package com.androapp.data;  
  
import android.app.Activity;  
import android.app.AlertDialog.Builder;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.os.Bundle;  
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 Rollno,Name,Marks;  
 Button Insert,Delete,Update,View,ViewAll;  
 SQLiteDatabase db;

*/\*\* Called when the activity is first created. \*/* @Override  
 public void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Rollno=(EditText)findViewById(R.id.*Rollno*);  
 Name=(EditText)findViewById(R.id.*Name*);  
 Marks=(EditText)findViewById(R.id.*Marks*);  
 Insert=(Button)findViewById(R.id.*Insert*);  
 Delete=(Button)findViewById(R.id.*Delete*);  
 Update=(Button)findViewById(R.id.*Update*);  
 View=(Button)findViewById(R.id.*View*);  
 ViewAll=(Button)findViewById(R.id.*ViewAll*);  
  
 Insert.setOnClickListener(this);  
 Delete.setOnClickListener(this);  
 Update.setOnClickListener(this);  
 View.setOnClickListener(this);  
 ViewAll.setOnClickListener(this);  
  
 *// Creating database and table* db=openOrCreateDatabase("StudentDB", Context.*MODE\_PRIVATE*, null);  
 db.execSQL("CREATE TABLE IF NOT EXISTS student(rollno VARCHAR,name VARCHAR,marks VARCHAR);");  
 }  
 public void onClick(View view)  
 {  
 *// Inserting a record to the Student table* if(view==Insert)  
 {  
 *// Checking for empty fields* if(Rollno.getText().toString().trim().length()==0||  
 Name.getText().toString().trim().length()==0||  
 Marks.getText().toString().trim().length()==0)  
 {  
 showMessage("Error", "Please enter all values");  
 return;  
 }  
 db.execSQL("INSERT INTO student VALUES('"+Rollno.getText()+"','"+Name.getText()+  
 "','"+Marks.getText()+"');");  
 showMessage("Success", "Record added");  
 clearText();  
 }  
 *// Deleting a record from the Student table* if(view==Delete)  
 {  
 *// Checking for empty roll number* if(Rollno.getText().toString().trim().length()==0)  
 {  
 showMessage("Error", "Please enter Rollno");  
 return;  
 }  
 Cursor c=db.rawQuery("SELECT \* FROM student WHERE rollno='"+Rollno.getText()+"'", null);  
 if(c.moveToFirst())  
 {  
 db.execSQL("DELETE FROM student WHERE rollno='"+Rollno.getText()+"'");  
 showMessage("Success", "Record Deleted");  
 }  
 else  
 {  
 showMessage("Error", "Invalid Rollno");  
 }  
 clearText();  
 }  
 *// Updating a record in the Student table* if(view==Update)  
 {  
 *// Checking for empty roll number* if(Rollno.getText().toString().trim().length()==0)  
 {  
 showMessage("Error", "Please enter Rollno");  
 return;  
 }  
 Cursor c=db.rawQuery("SELECT \* FROM student WHERE rollno='"+Rollno.getText()+"'", null);  
 if(c.moveToFirst()) {  
 db.execSQL("UPDATE student SET name='" + Name.getText() + "',marks='" + Marks.getText() +  
 "' WHERE rollno='"+Rollno.getText()+"'");  
 showMessage("Success", "Record Modified");  
 }  
 else {  
 showMessage("Error", "Invalid Rollno");  
 }  
 clearText();  
 }  
 *// Display a record from the Student table* if(view==View)  
 {  
 *// Checking for empty roll number* if(Rollno.getText().toString().trim().length()==0)  
 {  
 showMessage("Error", "Please enter Rollno");  
 return;  
 }  
 Cursor c=db.rawQuery("SELECT \* FROM student WHERE rollno='"+Rollno.getText()+"'", null);  
 if(c.moveToFirst())  
 {  
 Name.setText(c.getString(1));  
 Marks.setText(c.getString(2));  
 }  
 else  
 {  
 showMessage("Error", "Invalid Rollno");  
 clearText();  
 }  
 }  
 *// Displaying all the records* if(view==ViewAll)  
 {  
 Cursor c=db.rawQuery("SELECT \* FROM student", null);  
 if(c.getCount()==0)  
 {  
 showMessage("Error", "No records found");  
 return;  
 }  
 StringBuffer buffer=new StringBuffer();  
 while(c.moveToNext())  
 {  
 buffer.append("Rollno: "+c.getString(0)+"\n");  
 buffer.append("Name: "+c.getString(1)+"\n");  
 buffer.append("Marks: "+c.getString(2)+"\n\n");  
 }  
 showMessage("Student Details", buffer.toString());  
 }  
 }  
 public void showMessage(String title,String message)  
 {  
 Builder builder=new Builder(this);  
 builder.setCancelable(true);  
 builder.setTitle(title);  
 builder.setMessage(message);  
 builder.show();  
 }  
 public void clearText()  
 {  
 Rollno.setText("");  
 Name.setText("");  
 Marks.setText("");  
 Rollno.requestFocus();  
 }  
}

**Output**









