***Activity\_main.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**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="wrap\_content"  
  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:text="Name"  
 android:id="@+id/textView"  
 android:layout\_alignParentTop="true"  
  
 android:layout\_marginTop="44dp"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:text="SurName"  
 android:id="@+id/textView2"  
 android:layout\_below="@+id/textView"  
  
 android:layout\_marginTop="44dp"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:text="Marks"  
 android:id="@+id/textView3"  
 android:layout\_below="@+id/textView2"  
  
 android:layout\_marginTop="44dp"** />  
  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="View All"  
 android:id="@+id/button2"  
 android:layout\_marginTop="46dp"  
 android:layout\_below="@+id/button"**/>  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Update"  
 android:id="@+id/button\_update"  
 android:layout\_below="@+id/button"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Add"  
 android:id="@+id/button"  
 android:layout\_marginTop="13dp"  
 android:layout\_below="@+id/textView3"  
 android:layout\_centerHorizontal="true"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/editText2"  
  
 android:layout\_alignBaseline="@+id/textView2"  
 android:layout\_alignBottom="@+id/textView2"  
 android:layout\_toRightOf="@+id/textView2"  
 android:layout\_toEndOf="@+id/textView2"  
 android:layout\_marginLeft="18dp"  
 android:layout\_marginStart="18dp"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/editText3"  
 android:layout\_alignBaseline="@+id/textView3"  
 android:layout\_alignBottom="@+id/textView3"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/editTextId"  
 android:layout\_alignParentTop="true"  
 android:layout\_toRightOf="@+id/textView2"  
 android:layout\_toEndOf="@+id/textView2"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:text="ID"  
 android:id="@+id/textView4"  
 android:layout\_alignBaseline="@+id/editTextId"  
 android:layout\_alignBottom="@+id/editTextId"  
 android:layout\_alignRight="@+id/textView"  
 android:layout\_alignEnd="@+id/textView"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/editText"  
 android:layout\_below="@+id/textView4"  
 android:layout\_alignLeft="@+id/editTextId"  
 android:layout\_alignStart="@+id/editTextId"**></**EditText**>  
  
</**RelativeLayout**>

MAIN ACTIVITY .JAVA

**Your package name**  
**import** android.database.Cursor;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AlertDialog;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity  
{  
 MyHelper **mh**;  
 EditText **editName**,**editSurname**, **editMarks**,**editTextId**;  
 Button **btn**;  
 Button **btnViewAll**;  
 Button **btnviewUpdate**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState)  
 {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **mh** = **new** MyHelper(**this**); *// It is going to call the Constructor of this class.* **editName** = (EditText) findViewById(R.id.***editText***);  
 **editSurname** = (EditText) findViewById(R.id.***editText2***);  
 **editMarks** = (EditText) findViewById(R.id.***editText3***);  
 **editTextId** = (EditText) findViewById(R.id.***editTextId***);  
 **btn** = (Button) findViewById(R.id.***button***);  
 **btnViewAll** = (Button) findViewById(R.id.***button2***);  
 **btnviewUpdate** = (Button) findViewById(R.id.***button\_update***);  
 addData();  
 viewAll();  
 updateData();  
  
 }  
  
 **public void** updateData()  
 {  
  
 **btnviewUpdate**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view)  
 {  
 **boolean** isUpdate = **mh**.updateData(**editTextId**.getText().toString(),**editName**.getText().toString(),**editSurname**.getText().toString(),**editMarks**.getText().toString());  
 **if**(isUpdate== **true**)  
 Toast.*makeText*(MainActivity.**this**,**"Data Updated"**,Toast.***LENGTH\_LONG***).show();  
  
 **else** Toast.*makeText*(MainActivity.**this**, **" Data Not Updated "** ,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 }  
  
 **public void** addData()  
 {  
 **btn**.setOnClickListener(**new** View.OnClickListener()  
 {  
  
 @Override  
 **public void** onClick(View view) {  
 **boolean** isInserted = **mh**.insertData(**editName**.getText().toString() ,  
 **editSurname**.getText().toString(),  
 **editMarks**.getText().toString());  
 **if**(isInserted == **true**)  
 Toast.*makeText*(MainActivity.**this**,**"Data Inserted"**,Toast.***LENGTH\_LONG***).show();  
  
 **else** Toast.*makeText*(MainActivity.**this**, **" Data Not Inserted "** ,Toast.***LENGTH\_LONG***).show();  
 }  
 });  
  
 }  
  
 **public void** viewAll()  
 {  
 **btnViewAll**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Cursor res = **mh**.getAllData();  
 **if**(res.getCount() == 0)  
 {  
 *// show msg* showMessage(**"Error"**,**"Nothing Found"**);  
 **return**;  
 }  
  
 StringBuffer buffer = **new** StringBuffer();  
 **while**(res.moveToNext())  
 {  
 buffer.append(**"Id : "** + res.getString(0) + **"\n"**);  
 buffer.append(**"Name : "** + res.getString(1) + **"\n"**);  
 buffer.append(**"SurName : "** + res.getString(2) + **"\n"**);  
 buffer.append(**"Marks : "** + res.getString(3) + **"\n"**);  
 }  
  
 *// show all data* showMessage(**"Data"**, buffer.toString());  
 }  
 });  
  
 }  
  
 **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();  
 }  
}

MYHELPER.java

**Your package name**  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
**public class** MyHelper **extends** SQLiteOpenHelper  
{  
 **public static final** String ***DATABASE\_NAME***= **"Student.db"**; *// DB Name* **public static final** String ***TABLE\_NAME*** = **"student\_table"**; *// Table Name* **public static final** String ***COL\_1*** = **"ID"**; *// Column 1.* **public static final** String ***COl\_2*** = **"Name"**; *// Column 2.* **public static final** String ***COL\_3*** = **"SurName"**; *// Column 3.* **public static final** String ***COL\_4*** = **"Marks"**; *// Column 4.* **public** MyHelper(Context context)  
 {  
 **super**(context,***DATABASE\_NAME***, **null**, 1);  
 *// SQLiteDatabase db = this.getWritableDatabase(); // it will create DB & Table.* } *// So whenever the Constructor will be called , the Database will be created.* @Override  
 **public void** onCreate(SQLiteDatabase db)  
 {  
 db.execSQL(**"Create Table "** + ***TABLE\_NAME*** + **" (ID INTEGER PRIMARY KEY AUTOINCREMENT , NAME TEXT, SURNAME TEXT, MARKS INTEGER) "**);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase sqLiteDatabase, **int** i, **int** i1)  
 {  
  
 }  
 **public boolean** insertData(String name, String surname, String marks)  
 {  
 SQLiteDatabase db = **this**.getWritableDatabase(); *// it will create DB & Table.* ContentValues contentValues = **new** ContentValues(); *// It is used to put the values in the Column.* contentValues.put(***COl\_2***,name);  
 contentValues.put(***COL\_3***,surname);  
 contentValues.put(***COL\_4***,marks);  
 **long** result = db.insert(***TABLE\_NAME***,**null**,contentValues);  
 **if** (result == -1)  
 **return false**;  
 **else  
 return true**;  
 }  
  
 **public** Cursor getAllData()  
 {  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 Cursor res = db.rawQuery(**"select \* from "** + ***TABLE\_NAME***,**null**);  
 **return** res;  
 }  
  
 **public boolean** updateData(String id,String name, String surname, String marks)  
 {  
 SQLiteDatabase db = **this**.getWritableDatabase(); *// it will create DB & Table.* ContentValues contentValues = **new** ContentValues(); *// It is used to put the values in the Column.* contentValues.put(***COl\_2***,name);  
 contentValues.put(***COL\_3***,surname);  
 contentValues.put(***COL\_4***,marks);  
 db.update(***TABLE\_NAME***,contentValues,**"ID = ?"**, **new** String[] {id});  
 **return true**;  
 }  
  
  
}