**Example – SQLite 2**

**Example SQLite With Multiple Column Listview and Update on Any Field – used multiple activities for manipulation of data.**

**Much easier – since each functionality is in a separate activity.**

**(Examplesqlitewithmultipleupdate)**

1. activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50dp"  
 android:text="Example - SQLite"  
 android:textSize="24sp"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/deletebutton"  
 android:layout\_width="239dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="86dp"  
 android:layout\_marginLeft="86dp"  
 android:layout\_marginTop="65dp"  
 android:onClick="delete"  
 android:text="Delete"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/updatebutton"** />  
  
 <**Button  
 android:id="@+id/updatebutton"  
 android:layout\_width="239dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="86dp"  
 android:layout\_marginLeft="86dp"  
 android:layout\_marginTop="65dp"  
 android:onClick="update"  
 android:text="Update"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/addbutton"** />  
  
 <**Button  
 android:id="@+id/addbutton"  
 android:layout\_width="239dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="86dp"  
 android:layout\_marginLeft="86dp"  
 android:layout\_marginTop="65dp"  
 android:onClick="insertdata"  
 android:text="Insert"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/viewbutton"** />  
  
 <**Button  
 android:id="@+id/viewbutton"  
 android:layout\_width="239dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="86dp"  
 android:layout\_marginLeft="86dp"  
 android:layout\_marginTop="62dp"  
 android:onClick="viewdata"  
 android:text="View"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView"** />  
  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

1. MainActivity.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.app.Activity;  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 Button **addbutton**,**viewbutton**, **deletebutton**, **updatebutton**;  
 EditText **nameedit**, **classedit**, **subjectedit**, **emailedit**, **newnamedit**;  
 myDbAdapter **helper**;  
  
  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **addbutton** = findViewById(R.id.***addbutton***);  
 **viewbutton** = findViewById(R.id.***viewbutton***);  
 **updatebutton** = findViewById(R.id.***updatebutton***);  
 **deletebutton** = findViewById(R.id.***deletebutton***);  
  
  
 **helper** = **new** myDbAdapter(**this**);  
  
 }  
  
 **public void** viewdata(View view)  
 {  
 Intent i = **new** Intent(getApplicationContext(),viewActivity.**class**);  
 startActivity(i);  
 }  
  
  
 **public void** insertdata(View view)  
 {  
 Intent i = **new** Intent(getApplicationContext(),insertActivity.**class**);  
 startActivity(i);  
 }  
  
  
 **public void** update( View view)  
 {  
 Intent i = **new** Intent(getApplicationContext(),updateActivity.**class**);  
 startActivity(i);  
 }  
  
  
 **public void** delete (View view)  
 {  
 Intent i = **new** Intent(getApplicationContext(),deleteActivity.**class**);  
 startActivity(i);  
 }  
  
}

1. activity\_view.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".viewActivity"**>  
  
 <**ListView  
 android:id="@+id/lv"  
 android:layout\_width="302dp"  
 android:layout\_height="428dp"  
 android:layout\_marginStart="50dp"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginTop="110dp"  
 android:layout\_marginEnd="59dp"  
 android:layout\_marginRight="59dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/back\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="156dp"  
 android:layout\_marginLeft="156dp"  
 android:layout\_marginTop="66dp"  
 android:text="Go Back"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/lv"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="166dp"  
 android:layout\_marginLeft="166dp"  
 android:layout\_marginTop="30dp"  
 android:text="Viewing Data"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>

1. viewActivity.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Button;  
**import** android.widget.ListAdapter;  
**import** android.widget.ListView;  
  
**import** java.util.ArrayList;  
  
**public class** viewActivity **extends** AppCompatActivity {  
 myDbAdapter **helper**;  
 ListView **lv**;  
 Button **back\_button**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_view***);  
  
 **back\_button**=findViewById(R.id.***back\_button***);  
 **lv** = findViewById(R.id.***lv***);  
 **helper** = **new** myDbAdapter(**this**);  
  
 ArrayList data = **helper**.getData();  
  
 ListAdapter listadpater = **new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_list\_item\_1***, data);  
 **lv**.setVisibility(View.***VISIBLE***);  
 **lv**.setAdapter(listadpater);  
  
 **back\_button**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 finish();  
 }  
 });  
 }  
  
}

1. activity\_insert.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".insertActivity"**>  
  
 <**EditText  
 android:id="@+id/idedit"  
 android:layout\_width="185dp"  
 android:layout\_height="48dp"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="26dp"  
 android:ems="10"  
 android:hint="ID"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView2"** />  
  
 <**EditText  
 android:id="@+id/nameedit"  
 android:layout\_width="185dp"  
 android:layout\_height="48dp"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="180dp"  
 android:ems="10"  
 android:hint="Name"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**EditText  
 android:id="@+id/classedit"  
 android:layout\_width="185dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="53dp"  
 android:ems="10"  
 android:hint="Class"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/nameedit"** />  
  
 <**EditText  
 android:id="@+id/subjectedit"  
 android:layout\_width="185dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="37dp"  
 android:ems="10"  
 android:hint="Subject"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/classedit"** />  
  
 <**EditText  
 android:id="@+id/emailedit"  
 android:layout\_width="185dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="43dp"  
 android:ems="10"  
 android:hint="Email"  
 android:inputType="textEmailAddress"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/subjectedit"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="162dp"  
 android:layout\_marginLeft="162dp"  
 android:layout\_marginTop="57dp"  
 android:text="Inserting Data"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/back\_button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="150dp"  
 android:layout\_marginLeft="150dp"  
 android:layout\_marginTop="69dp"  
 android:text="Save"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/emailedit"** />  
  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

1. insertActivity.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**public class** insertActivity **extends** AppCompatActivity {  
 Button **back\_button2**;  
 EditText **idedit**, **nameedit**, **classedit**, **subjectedit**, **emailedit**;  
 myDbAdapter **helper**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_insert***);  
  
 **back\_button2** = findViewById(R.id.***back\_button2***);  
 **idedit** = findViewById(R.id.***idedit***);  
 **nameedit** = findViewById(R.id.***nameedit***);  
 **classedit** = findViewById(R.id.***classedit***);  
 **subjectedit** = findViewById(R.id.***subjectedit***);  
 **emailedit** = findViewById(R.id.***emailedit***);  
  
 **helper** = **new** myDbAdapter(**this**);  
  
  
 **back\_button2**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Integer i = Integer.*valueOf*(**idedit**.getText().toString());  
 String n = **nameedit**.getText().toString();  
 String c = **classedit**.getText().toString();  
 String s = **subjectedit**.getText().toString();  
 String e = **emailedit**.getText().toString();  
  
 **long** id = **helper**.insertdata(i,n,c,s,e);  
 **if** (id<=0) {  
 Toast.*makeText*(getApplicationContext(), **"Insertion Unsuccessful"**, Toast.***LENGTH\_LONG***).show();  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"Insertion Successful"**,Toast.***LENGTH\_LONG***).show();  
 }  
  
 finish();  
 }  
 });  
  
 }  
}

1. activity\_update.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".updateActivity"**>  
  
 <**EditText  
 android:id="@+id/todelete"  
 android:layout\_width="185dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginLeft="32dp"  
 android:layout\_marginTop="25dp"  
 android:ems="10"  
 android:hint="Updated Value"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/radioFields"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="170dp"  
 android:layout\_marginLeft="170dp"  
 android:layout\_marginTop="64dp"  
 android:text="Update data"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**EditText  
 android:id="@+id/name\_det"  
 android:layout\_width="296dp"  
 android:layout\_height="59dp"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="30dp"  
 android:ems="10"  
 android:hint="Enter Name"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView4"** />  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="294dp"  
 android:layout\_height="43dp"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginLeft="29dp"  
 android:layout\_marginTop="29dp"  
 android:text="Choose the field to be updated"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/name\_det"** />  
  
 <**Button  
 android:id="@+id/back\_button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="163dp"  
 android:layout\_marginLeft="163dp"  
 android:layout\_marginTop="75dp"  
 android:text="Save"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/todelete"** />  
  
 <**RadioGroup  
 android:id="@+id/radioFields"  
 android:layout\_width="352dp"  
 android:layout\_height="208dp"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginLeft="32dp"  
 android:layout\_marginTop="27dp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView5"**>  
  
 <**RadioButton  
 android:id="@+id/radioClass"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Class"** />  
  
 <**RadioButton  
 android:id="@+id/radioSubject"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Subject"** />  
  
 <**RadioButton  
 android:id="@+id/radioEmail"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Email"** />  
 </**RadioGroup**>  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

1. updateActivity.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.RadioButton;  
**import** android.widget.RadioGroup;  
**import** android.widget.Toast;  
  
**public class** updateActivity **extends** AppCompatActivity {  
 Button **back\_button3**;  
 EditText **name\_det**, **updatedvalue**;  
 RadioGroup **radioFields**;  
 RadioButton **radioChosen**;  
 myDbAdapter **helper**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_update***);  
  
 **back\_button3** = findViewById(R.id.***back\_button3***);  
 **radioFields** = findViewById(R.id.***radioFields***);  
 **name\_det** = findViewById(R.id.***name\_det***);  
 **updatedvalue** = findViewById(R.id.***todelete***);  
  
 **helper** = **new** myDbAdapter(**this**);  
  
  
 **back\_button3**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **int** selectedId = **radioFields**.getCheckedRadioButtonId();  
 **radioChosen** = findViewById(selectedId);  
 String n = **name\_det**.getText().toString();  
 String u = **updatedvalue**.getText().toString();  
 String f = **radioChosen**.getText().toString();  
  
 **long** id = **helper**.updatedata(n,u,f);  
 **if** (id<=0) {  
 Toast.*makeText*(getApplicationContext(), **"Insertion Unsuccessful"**, Toast.***LENGTH\_LONG***).show();  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"Insertion Successful"**,Toast.***LENGTH\_LONG***).show();  
 }  
  
 finish();  
  
 }  
 });  
  
 }  
  
}

1. activity\_delete.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".deleteActivity"**>  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="157dp"  
 android:layout\_marginLeft="157dp"  
 android:layout\_marginTop="62dp"  
 android:text="Delete data"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="55dp"  
 android:layout\_marginLeft="55dp"  
 android:layout\_marginTop="35dp"  
 android:text="Enter name of the student to be deleted"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView5"** />  
  
 <**EditText  
 android:id="@+id/todelete"  
 android:layout\_width="185dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="55dp"  
 android:layout\_marginLeft="55dp"  
 android:layout\_marginTop="27dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView6"** />  
  
 <**Button  
 android:id="@+id/back\_button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="113dp"  
 android:layout\_marginLeft="113dp"  
 android:layout\_marginTop="94dp"  
 android:text="Click to delete"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/todelete"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

1. deleteActivity.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**public class** deleteActivity **extends** AppCompatActivity {  
 Button **back\_button4**;  
 EditText **todelete**;  
 myDbAdapter **helper**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_delete***);  
 **back\_button4**=findViewById(R.id.***back\_button4***);  
 **todelete**=findViewById(R.id.***todelete***);  
  
 **helper** = **new** myDbAdapter(**this**);  
  
 **back\_button4**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String nametodelete = **todelete**.getText().toString();  
  
 **int** a = **helper**.delete(nametodelete);  
 **if**(a<=0)  
 {  
 Toast.*makeText*(getApplicationContext(),**"Unsuccessful Deletion"**,Toast.***LENGTH\_LONG***).show();  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"Successful Deletion"**,Toast.***LENGTH\_LONG***).show();  
 }  
 finish();  
  
 }  
 });  
  
  
 }  
}

1. myDbAdapter.java

**package** com.example.examplesqlitewithmultipleupdate;  
  
**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;  
  
**import** java.util.ArrayList;  
  
**public class** myDbAdapter {  
  
 mydBHelper **myHelper**;  
  
 **public** myDbAdapter(Context context){  
 **myHelper** = **new** mydBHelper(context);  
 }  
  
 **public long** insertdata(Integer id, String name, String classyear, String subject, String email){  
 SQLiteDatabase dbb = **myHelper**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"id"**,id);  
 contentValues.put(**"Name"**,name);  
 contentValues.put(**"Class"**,classyear);  
 contentValues.put(**"Subject"**,subject);  
 contentValues.put(**"Email"**,email);  
 **long** idd = dbb.insert(mydBHelper.***TABLE\_NAME***,**null**,contentValues);  
 **return** idd;  
 }  
  
 **public** ArrayList<String> getData() {  
  
 SQLiteDatabase db = **myHelper**.getWritableDatabase();  
 String[] columns = {**"id"**, **"Name"**, **"Class"**, **"Subject"**, **"Email"**};  
 Cursor cursor = db.query(mydBHelper.***TABLE\_NAME***, columns, **null**, **null**, **null**, **null**, **null**);  
 ArrayList<String> theList = **new** ArrayList<>();  
 **while** (cursor.moveToNext()) {  
 StringBuffer strbuf=**new** StringBuffer();  
 **int** cid =cursor.getInt(cursor.getColumnIndex(**"id"**));  
 String nm =cursor.getString(cursor.getColumnIndex(**"Name"**));  
 String classyear =cursor.getString(cursor.getColumnIndex(**"Class"**));  
 String subject =cursor.getString(cursor.getColumnIndex(**"Subject"**));  
 String email =cursor.getString(cursor.getColumnIndex(**"Email"**));  
 strbuf.append(cid+ **" "** + nm + **" "** + classyear +**" "** + subject +**" "** + email +**"\n"**);  
 theList.add(strbuf.toString());  
 }  
  
 **return** theList;  
 }  
  
 **public int** delete(String uname)  
 {  
 SQLiteDatabase db = **myHelper**.getWritableDatabase();  
 String[] whereArgs ={uname};  
  
 **int** count =db.delete(mydBHelper.***TABLE\_NAME*** ,**"Name = ?"**,whereArgs);  
 **return** count;  
 }  
  
 **public int** updatedata(String name, String newvalue, String fieldvalue)  
 {  
 SQLiteDatabase db = **myHelper**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 **if** (fieldvalue.equals(**"Class"**))  
 contentValues.put(**"Class"**,newvalue);  
 **if** (fieldvalue.equals(**"Subject"**))  
 contentValues.put(**"Subject"**,newvalue);  
 **if** (fieldvalue.equals(**"Email"**))  
 contentValues.put(**"Email"**,newvalue);  
 String[] whereArgs= {name};  
 **int** count =db.update(mydBHelper.***TABLE\_NAME***,contentValues, **"Name = ?"**,whereArgs );  
 **return** count;  
 }  
  
  
 **public class** mydBHelper **extends** SQLiteOpenHelper {  
 **private static final** String ***DATABASE\_NAME*** = **"myDatabase"**;  
 **private static final** String ***TABLE\_NAME*** = **"myTable"**;  
 **private static final int *DATABASE\_Version*** = 1;  
 **private** Context **context**;  
  
 **public** mydBHelper(Context context) {  
 **super**(context, ***DATABASE\_NAME***, **null**, ***DATABASE\_Version***);  
 **this**.**context** = context;  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 db.execSQL(**"CREATE TABLE myTable(id INTEGER, Name VARCHAR(255), Class VARCHAR(255), Subject VARCHAR(255), Email VARCHAR(255));"**);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 db.execSQL(**"DROP TABLE IF EXISTS myTable"**);  
 onCreate(db);  
 }  
  
 }  
}