Activity\_Main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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"  
 android:padding="10dp"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/textTitle"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Enter Your Detail:"  
 android:textSize="24sp"  
 android:layout\_marginTop="20dp"  
 tools:ignore="HardcodedText"** />  
  
 <**EditText  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name:"  
 android:textSize="24sp"  
 android:layout\_below="@+id/textTitle"  
 android:inputType="textPersonName"** <**EditText  
 android:id="@+id/age"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint=" Enter Your Age:"  
 android:textSize="24sp"  
 android:layout\_below="@+id/name"  
 android:inputType="number"** <**EditText  
 android:id="@+id/mobile"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:padding="10dp"  
 android:hint="Enter Your Mobile No.:"  
 android:textSize="24sp"  
 android:layout\_below="@+id/age"  
 android:inputType="number"** <**Button  
 android:id="@+id/buttonInsert"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:text="@string/insert\_new\_data"  
 android:layout\_marginTop="24dp"  
 android:layout\_below="@id/mobile"** <**Button  
 android:id="@+id/buttonUpdate"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:text="@string/update\_your\_data"  
 android:layout\_marginTop="24sp"  
 android:layout\_below="@id/buttonInsert"** <**Button  
 android:id="@+id/buttonDelete"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:text="@string/delete\_your\_record"  
 android:layout\_marginTop="24dp"  
 android:layout\_below="@id/buttonUpdate"** <**Button  
 android:id="@+id/buttonView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textSize="24sp"  
 android:text="@string/display\_records"  
 android:layout\_marginTop="24sp"  
 android:layout\_below="@id/buttonDelete"**</**RelativeLayout**>

MainActivity.java

**package** com.example.myapplicationdb;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.view.View.OnClickListener;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 EditText **name**, **age**, **mobile**;  
 Button **insert**, **update**, **delete**, **view**;  
 DBhelper **db**;  
  
  
  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **name**=findViewById(R.id.***name***);  
 **age**=findViewById(R.id.***age***);  
 **mobile**=findViewById(R.id.***mobile***);  
 **insert**=findViewById(R.id.***buttonInsert***);  
 **update**=findViewById(R.id.***buttonUpdate***)  
 **delete**=findViewById(R.id.***buttonDelete***)  
 **view**=findViewById(R.id.***buttonView***)  
 **db**=**new** DBhelper(context: **this**);  
  
 **insert**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View view )  
 {  
 String nameTXT=**name**.getText().toString();  
 String ageTXT=**age**.getText().toString();  
 String mobileTXT=**mobile**.getText().toString();  
 Boolean checkinsertdata = **db**.insertuserdata(nameTXT, ageTXT, mobileTXT);  
 **if** (checkinsertdata==**true**)  
 Toast.makeText(context MainActivity.**this**, Text=**"New Record Inserted"**, Toast.***LENGTH\_SHORT***).show();  
 **else** Toast.makeText(context MainActivity.**this**, Text=**"New Record Not Inserted"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 };  
  
 **update**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View view )  
 {  
 String nameTXT=**name**.getText().toString();  
 String ageTXT=**age**.getText().toString();  
 String mobileTXT=**mobile**.getText().toString();  
 Boolean checkupdatedata = **db**.insertuserdata(nameTXT, ageTXT, mobileTXT);  
 **if** (checkupdatedata==**true**)  
 Toast.makeText(context MainActivity.**this**, Text=**"New Record Inserted"**, Toast.***LENGTH\_SHORT***).show();  
 **else** Toast.makeText(context MainActivity.**this**, Text=**"New Record Not Inserted"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 };  
  
 **delete**.setOnClickListener(**new** View.OnClickListener()  
 {  
 @Override  
 **public void** onClick(View view )  
 {  
 String nameTXT=**name**.getText().toString();  
 Boolean checkdeletedata=**db**.deletedata(nameTXT)  
 **if** (checkdeletedata==**true**)  
 Toast.makeText(context MainActivity.**this**, Text=**"Record Deleted"**, Toast.***LENGTH\_SHORT***).show();  
 **else** Toast.makeText(context MainActivity.**this**, Text=**"Record Not Deleted"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 };  
  
 **view**.setOnClickListener(**new** View.OnClickListener()  
 {  
  
 **public void** onClick(View view)  
 {  
 Cursor res=**db**.getdata();  
 **if**(res.count()==0) {  
 Toast.makeText(context MainActivity.**this**, Text = **"New Record Not Inserted"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
 StringBuffer buffer=**new** Stringbuffer();  
 **while**(res.moveTonext())  
 {  
 buffer.append(**"Name:"**+res.getString(0)+**"\n"**);  
 buffer.append(**"Age:"**+res.getString(0)+**"\n"**);  
 buffer.append(**"Mobile:"**+res.getString(0)+**"\n"**);  
 }  
 AlertDialog.Builder builder = **new** AlertDialog.Builder(context:MainActivity.**this**);  
 builder.setCancelable(**true**);  
 builder.setTitle(**"Application Entries"**);  
 builder.setMessage(buffer.toString());  
 builder.show();  
 }  
 };  
 }

DBhelper.java

**package** com.example.myapplicationdb;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** androidx.annotation.Nullable;  
  
**public class** DBhelper **extends** SQLiteOpenHelper {  
 **public** DBhelper(@Nullable Context context) {  
 **super**(context, name: **"userDB.db"**, factory: **null**, version:1);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 db.execSQL(**"create table appform(name TEXT primary key, age TEXT, mobile TEXT)"**);  
  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** i, **int** i1) {  
 db.execSQL(**"drop Table if exists appform"**);  
 }  
 **public boolean** insertuserdata(String name, String age, String mobile) {  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"Name:"**, name);  
 contentValues.put(**"Age:"**, age);  
 contentValues.put(**"Mobile:"**, mobile);  
 **long** result = db.insert(table:**"appform"**, nullColumnHack:**null**, contentValues);  
 **if** (result == -1) {  
 **return false**;  
 }  
 **else** {  
 **return true**;  
 }  
 }  
  
 **public boolean** updateuserdata(String name, String age, String mobile) {  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"Age:"**, age);  
 contentValues.put(**"Mobile:"**, mobile);  
 Cursor cursor = db.update(sql:**"Select \* from appform where name=?"**, **new** String[] (name));  
 **if** (cursor.getCount() > 0) {  
 **long** result = db.insert(table:**"appform"**, nullColumnHack:**null**, contentValues);  
 **if** (result == -1) {  
 **return false**;  
 } **else** {  
 **return true**;  
 }  
 } **else** {  
 **return false**;  
 }  
 }  
 **public** Boolean deletedata(String name)  
 {  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 Cursor cursor = db.rawQuery(sql:**"Select \* from appform where name=?"**, **new** String[] (name));  
 **if** (cursor.getCount() > 0)  
 {  
 **long** result = db.delete(table:**"appform"**, whereClause:**"name=?"**, **new** String[](name));  
 **if** (result == -1)  
 {  
 **return false**;  
 }  
 **else** {  
 **return true**;  
 }  
 }  
 **else** {  
 **return false**;  
 }  
 }  
 **public** Cursor getdata()  
 {  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 Cursor cursor = db.rawQuery(sql:**"Select \* from appform"**, selectionArgs:**null**);  
 **return** cursor;  
 }  
}