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:gravity="center"  
 android:paddingLeft="10dp"  
 android:paddingRight="10dp"  
 tools:context=".MainActivity"  
 tools:showIn="@layout/activity\_main"**>  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="ID"  
 android:textSize="25dp"  
 android:id="@+id/id\_txt"** />  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter id to update or delete"  
 android:id="@+id/id"  
 android:onClick="buttonAction"  
 android:layout\_below="@+id/id\_txt"**/>  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Data"  
 android:textSize="25dp"  
 android:id="@+id/data\_txt"  
 android:layout\_below="@+id/id"**/>  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter name to insert or update"  
 android:id="@+id/name"  
 android:layout\_below="@+id/data\_txt"  
 android:layout\_marginTop="10dp"** />  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/name"  
 android:id="@+id/layout1"  
 android:orientation="vertical"**>  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/insert"  
 android:text="Insert"  
 android:onClick="buttonAction"**/>  
  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/view"  
 android:text="View"  
 android:onClick="buttonAction"  
 android:layout\_below="@+id/name"**/>  
  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Update"  
 android:onClick="buttonAction"  
 android:id="@+id/update"  
 android:layout\_below="@+id/name"**/>  
  
 <**Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Delete"  
 android:onClick="buttonAction"  
 android:id="@+id/delete"** />  
  
 </**LinearLayout**>  
  
 <**TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/layout1"  
 android:layout\_marginTop="10dp"  
 android:id="@+id/text"**/>  
</**RelativeLayout**>

Main-Activity.java

**package** org.bnncollege.myapplication;  
  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** org.bnncollege.myapplication.DBhandler;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **id**,**name**;  
 Button **insert**,**view**,**update**,**delete**;  
 TextView **text**;  
 DBhandler **db**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **id**=(EditText)findViewById(R.id.***id***);  
 **name**=(EditText)findViewById((R.id.***name***));  
 **insert**=(Button)findViewById(R.id.***insert***);  
 **view**=(Button)findViewById(R.id.***view***);  
 **update**=(Button)findViewById(R.id.***update***);  
 **delete**=(Button)findViewById(R.id.***delete***);  
 **text**=(TextView)findViewById(R.id.***text***);  
  
 **db**=**new** DBhandler(getApplicationContext());  
  
 }  
 **public void** buttonAction(View view){  
 **switch** (view.getId()){  
 **case** R.id.***insert***:  
 **db**.insertRecord(**name**.getText().toString());  
 Toast.*makeText*(getApplicationContext(),**"record inserted"**,Toast.***LENGTH\_LONG***).show();  
 **break**;  
 **case** R.id.***view***:  
 **text**.setText(**db**.getRecords());  
 **break**;  
 **case** R.id.***update***:  
 **db**.updateRecord(**id**.getText().toString(),**name**.getText().toString());  
 Toast.*makeText*(getApplicationContext(),**"record updated"**,Toast.***LENGTH\_LONG***).show();  
 **break**;  
 **case** R.id.***delete***:  
 **db**.deleteRecord(**id**.getText().toString());  
 Toast.*makeText*(getApplicationContext(),**"record deleted"**,Toast.***LENGTH\_LONG***).show();  
 **break**;  
 }  
 }  
  
}

DBhandler.java

**package** org.bnncollege.myapplication;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** java.util.ArrayList;  
  
**public class** DBhandler **extends** SQLiteOpenHelper{  
 **private static final** String ***DB\_NAME***=**"demodb"**;  
 **private static final int *DB\_VERSION***=1;  
 **private static final** String ***TABLE\_NAME***=**"record"**;  
 **private static final** String ***ID\_COL***=**"id"**;  
 **private static final** String ***NAME\_COL***=**"name"**;  
  
 **public** DBhandler(Context context) {  
 **super**(context, ***DB\_NAME***, **null**, ***DB\_VERSION***);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 String query=**"CREATE TABLE "**+***TABLE\_NAME***+**" ("**+***ID\_COL***+**" INTEGER PRIMARY KEY AUTOINCREMENT,"**+***NAME\_COL***+**" TEXT)"**;  
 db.execSQL(query);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 *// Drop older table if existed* db.execSQL(**"DROP TABLE IF EXISTS "** + ***TABLE\_NAME***);  
  
 *// Create table again* onCreate(db);  
 }  
  
 **public void** insertRecord(String name){  
 SQLiteDatabase db=**this**.getWritableDatabase();  
 ContentValues values=**new** ContentValues();  
  
 values.put(***NAME\_COL***,name);  
 db.insert(***TABLE\_NAME***,**null**,values);  
 db.close();  
 }  
  
 **public** String getRecords(){  
 String query=**"SELECT \* FROM "**+***TABLE\_NAME***;  
 String result=**""**;  
 SQLiteDatabase db=**this**.getReadableDatabase();  
 Cursor cursor=db.rawQuery(query,**null**);  
  
 cursor.moveToFirst();  
 **while**(cursor.isAfterLast()==**false**){  
 result+=cursor.getString(0)+**" "**+cursor.getString(1)+**"\n"**;  
 cursor.moveToNext();  
 }  
  
 db.close();  
 **return** result;  
 }  
  
 **public void** updateRecord(String id,String name){  
 SQLiteDatabase db=**this**.getWritableDatabase();  
 ContentValues values=**new** ContentValues();  
 values.put(***NAME\_COL***,name);  
  
 db.update(***TABLE\_NAME***,values,**"id=?"**,**new** String[]{id});  
 db.close();  
 }  
  
 **public void** deleteRecord(String id){  
 SQLiteDatabase db=**this**.getWritableDatabase();  
 db.delete(***TABLE\_NAME***,**"id=?"**,**new** String[]{id});  
  
 db.close();  
 }  
}

