package com.example.student.myapplication;  
  
import android.database.Cursor;  
import android.opengl.GLDebugHelper;  
import android.os.Bundle;  
import android.provider.ContactsContract;  
import android.support.design.widget.FloatingActionButton;  
import android.support.design.widget.Snackbar;  
import android.support.v7.app.AlertDialog;  
import android.support.v7.app.AppCompatActivity;  
import android.support.v7.widget.Toolbar;  
import android.view.View;  
import android.view.Menu;  
import android.view.MenuItem;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 EditText e1,e2,e3;  
 Button insert,update,Delete,View;  
 DBHelp db;  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=findViewById(R.id.*et1*);  
 e2=findViewById(R.id.*et2*);  
 e3=findViewById(R.id.*et3*);  
 insert=findViewById(R.id.*bt1*);  
 update=findViewById(R.id.*bt2*);  
 Delete=findViewById(R.id.*bt3*);  
 View=findViewById(R.id.*bt4*);  
 db=new DBHelp(this);  
 insert.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 String name=e1.getText().toString();  
 String contact=e2.getText().toString();  
 String dob=e3.getText().toString();  
 boolean checkInsert=db.InsertData(name,contact,dob);  
 if(checkInsert==true)  
 {  
 Toast.*makeText*(MainActivity.this,"Insert Successfull",Toast.*LENGTH\_LONG*).show();  
 }  
 else  
 {  
 Toast.*makeText*(MainActivity.this,"Insert Unsuccessfull",Toast.*LENGTH\_LONG*).show();  
 }  
  
 }  
 });  
 View.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(android.view.View view) {  
 Cursor res=db.getData();  
 if(res.getCount()==0)  
 {  
 Toast.*makeText*(MainActivity.this,"No entry exists",Toast.*LENGTH\_LONG*).show();  
 return;  
 }  
 StringBuffer buffer=new StringBuffer();  
 while (res.moveToNext())  
 {  
 buffer.append("name:"+res.getString(0)+"\n");  
 buffer.append("contact:"+res.getString(1)+"\n");  
 buffer.append("DOB:"+res.getString(2)+"\n\n\n");  
  
 }  
 AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);  
 builder.setCancelable(true);  
 builder.setTitle("USER ENTRIES");  
 builder.setMessage(buffer.toString());  
 builder.show();  
 }  
 });  
  
  
  
 }  
  
  
}

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout 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:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Please enter the details below:"  
 android:textSize="20dp"/>  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:hint="Name"  
 android:id="@+id/et1"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:hint="Contact"  
 android:id="@+id/et2"  
 />  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_marginTop="10dp"  
 android:layout\_height="wrap\_content"  
 android:hint="DOB"  
 android:id="@+id/et3"  
 />  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="INSERT NEW DATA"  
 android:layout\_marginTop="10dp"  
 android:background="@color/colorPrimary"  
 android:textColor="@color/cardview\_light\_background"  
 android:id="@+id/bt1"/>  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="UPDATE DATA"  
 android:layout\_marginTop="10dp"  
 android:background="@color/colorPrimary"  
 android:textColor="@color/cardview\_light\_background"  
 android:id="@+id/bt2"/>  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="DELETE DATA"  
 android:layout\_marginTop="10dp"  
 android:background="@color/colorPrimary"  
 android:textColor="@color/cardview\_light\_background"  
 android:id="@+id/bt3"/>  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:text="VIEW DATA"  
 android:background="@color/colorPrimary"  
 android:textColor="@color/cardview\_light\_background"  
 android:id="@+id/bt4"/>  
  
</LinearLayout>

package com.example.student.myapplication;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
import android.support.annotation.Nullable;  
  
public class DBHelp extends SQLiteOpenHelper {  
 public DBHelp(@Nullable Context context)  
 {  
 super(context,"userdata.db",null,1);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase DB) {  
 DB.execSQL("create table userdetails(name TEXT,contact TEXT primary key,dob TEXT)");  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase DB, int i, int i1) {  
 DB.execSQL("drop table if exists userdetails");  
  
 }  
 public Boolean InsertData(String name,String contact,String dob)  
 {  
 SQLiteDatabase DB=this .getWritableDatabase();  
 ContentValues contentValues=new ContentValues();  
 contentValues.put("name",name);  
 contentValues.put("contact",contact);  
 contentValues.put("dob",dob);  
 long result=DB.insert("userdetails",null,contentValues);  
 if(result==-1)  
 {  
 return false;  
 }  
 else  
 {  
 return true;  
 }  
 }  
 public Cursor getData()  
 {  
 SQLiteDatabase DB=this.getWritableDatabase();  
 Cursor cursor=DB.rawQuery("select \* from userdetails",null);  
 return cursor;  
 }  
}