**XML Code:**

<?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">

<LinearLayout

android:layout\_width="328dp"

android:layout\_height="495dp"

android:orientation="vertical"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.493"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.542">

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Name"

android:inputType="textPersonName" />

<EditText

android:id="@+id/e2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="DOB"

android:inputType="textPersonName" />

<EditText

android:id="@+id/e3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Phone Number"

android:inputType="textPersonName" />

<EditText

android:id="@+id/e4"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="email"

android:inputType="textPersonName" />

<Button

android:id="@+id/btn"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="INSERT" />

<Button

android:id="@+id/btn1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="UPDATE" />

<Button

android:id="@+id/btn2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="DELETE" />

<Button

android:id="@+id/btn3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="VIEW" />

</LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

**Java code**

dbop.java

package com.example.dboper;

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 dbop extends SQLiteOpenHelper {

public dbop(@Nullable Context context) {

super(context, "userdata", null, 1);

}

@Override

public void onCreate(SQLiteDatabase db) {

db.execSQL("create table userdetails(name TEXT PRIMARY KEY,dob TEXT,phone TEXT,email TEXT)");

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

db.execSQL("DROP table if exists userdetails");

}

public boolean Insertdata(String name,String dob,String phone,String email) {

SQLiteDatabase DB = this.getWritableDatabase();

ContentValues cv = new ContentValues();

cv.put("name", name);

cv.put("dob", dob);

cv.put("phone", phone);

cv.put("email", email);

long res= DB.insert("userdetails",null,cv);

if (res==-1){

return false;

}

else

{

return true;

}

}

public boolean Updatedata(String name,String dob,String phone,String email) {

SQLiteDatabase DB = this.getWritableDatabase();

ContentValues cv = new ContentValues();

cv.put("dob", dob);

cv.put("phone", phone);

cv.put("email", email);

Cursor cr=DB.rawQuery("select \* from userdetails where name=?",new String[]{name});

if (cr.getCount()>0) {

long res = DB.update("userdetails", cv, "name=?", new String[]{name});

if (res == -1) {

return false;

} else {

return true;

}

}

else

{

return false;

}

}

public boolean Delete(String name) {

SQLiteDatabase DB = this.getWritableDatabase();

Cursor cr=DB.rawQuery("select \* from userdetails where name=?",new String[]{name});

if (cr.getCount()>0) {

long res = DB.delete("userdetails", "name=?", new String[]{name});

if (res == -1) {

return false;

} else {

return true;

}

}

else

{

return false;

}

}

public Cursor getdata()

{

SQLiteDatabase DB = this.getWritableDatabase();

Cursor cr=DB.rawQuery("Select \* from userdetails",null);

return cr;

}

}

MainActivity.java

package com.example.dboper;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

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 {

EditText e1,e2,e3,e4;

Button b1,b2,b3,b4;

dbop db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

e1=findViewById(R.id.*e1*);

e2=findViewById(R.id.*e2*);

e3=findViewById(R.id.*e3*);

e4=findViewById(R.id.*e4*);

b1=findViewById(R.id.*btn*);

b2=findViewById(R.id.*btn1*);

b3=findViewById(R.id.*btn2*);

b4=findViewById(R.id.*btn3*);

db=new dbop(this);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name=e1.getText().toString();

String dob=e2.getText().toString();

String phone=e3.getText().toString();

String email=e4.getText().toString();

Boolean chkinsrt=db.Insertdata(name,dob,phone,email);

if(chkinsrt==true){

Toast.*makeText*(MainActivity.this, "INSERTED into Table", Toast.*LENGTH\_SHORT*).show();

}

else {

Toast.*makeText*(MainActivity.this, "Failed to insert", Toast.*LENGTH\_SHORT*).show();

}

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name=e1.getText().toString();

String dob=e2.getText().toString();

String phone=e3.getText().toString();

String email=e4.getText().toString();

Boolean chkupdt=db.Updatedata(name,dob,phone,email);

if(chkupdt==true){

Toast.*makeText*(MainActivity.this, "UPDATED into Table", Toast.*LENGTH\_SHORT*).show();

}

else {

Toast.*makeText*(MainActivity.this, "Failed to Update", Toast.*LENGTH\_SHORT*).show();

}

}

});

b3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name=e1.getText().toString();

Boolean chkdel=db.Delete(name);

if(chkdel==true){

Toast.*makeText*(MainActivity.this, "Table Deleted", Toast.*LENGTH\_SHORT*).show();

}

else {

Toast.*makeText*(MainActivity.this, "Failed to delete", Toast.*LENGTH\_SHORT*).show();

}

}

});

b4.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Cursor res=db.getdata();

if(res.getCount()==0){

Toast.*makeText*(MainActivity.this, "NO entry exist", Toast.*LENGTH\_SHORT*).show();

return;

}

StringBuffer sb=new StringBuffer();

while (res.moveToNext()){

sb.append("Name: "+res.getString(0)+"\n");

sb.append("DOB: "+res.getString(1)+"\n");

sb.append("Phone Number: "+res.getString(2)+"\n");

sb.append("Email: "+res.getString(3)+"\n");

}

AlertDialog.Builder alrt=new AlertDialog.Builder(MainActivity.this);

alrt.setCancelable(true);

alrt.setTitle("User Entries");

alrt.setMessage(sb.toString());

alrt.show();

}

});

}

}





