Mainactivity.java

package com.example.empcrud;

import androidx.appcompat.app.AppCompatActivity;

import android.content.ContentValues;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

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 b1,b2,b3,b4;

EditText name,dept,phone,upid;

DbHelper helper=new DbHelper(this);

SQLiteDatabase db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

db=helper.getReadableDatabase();

db=helper.getWritableDatabase();

b1=findViewById(R.id.b1);

b2=findViewById(R.id.b2);

b3=findViewById(R.id.b3);

b4=findViewById(R.id.b4);

name=findViewById(R.id.e1);

dept=findViewById(R.id.e2);

phone=findViewById(R.id.e3);

upid=findViewById(R.id.e10);

}

public void insert(View view)

{

String s1=name.getText().toString();

String s2=dept.getText().toString();

String s3=phone.getText().toString();

ContentValues data=new ContentValues();

data.put("name",s1);

data.put("dept",s2);

data.put("phone",s3);

db.insert("emp\_tb",null,data);

Toast.makeText(this, "inserted", Toast.LENGTH\_SHORT).show();

}

public void update(View view)

{

String s1=name.getText().toString();

String s2=dept.getText().toString();

String s3=phone.getText().toString();

String s4=upid.getText().toString();

ContentValues data=new ContentValues();

data.put("name",s1);

data.put("dept",s2);

data.put("phone",s3);

db.update("emp\_tb",data,"empid="+s4,null);

Toast.makeText(this, "updated", Toast.LENGTH\_SHORT).show();

}

public void read(View view)

{

StringBuffer bf=new StringBuffer();

Cursor c=db.rawQuery("select \* from emp\_tb",null);

while(c.moveToNext())

{

bf.append("Empid is : "+c.getString(0)+"\t");

bf.append("name is: "+c.getString(1)+"\t");

bf.append("dept is: "+c.getString(2)+"\t");

bf.append("phone is is: "+c.getString(3)+"\t");

}

Toast.makeText(this,bf.toString(),Toast.LENGTH\_LONG).show();

}

public void delete(View view)

{

String s4=upid.getText().toString();

db.delete("emp\_tb","empid="+s4,null);

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

}

}

DbHelper.java

package com.example.empcrud;

import android.content.Context;

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,"emp.db",null,1);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase)

{

sqLiteDatabase.execSQL("create table emp\_tb(empid integer primary key autoincrement,name varchar(16),dept varchar(20),phone int)");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

}

}

mainActivity.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:tools="http://schemas.android.com/tools"

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_height="match\_parent"

android:layout\_width="match\_parent"

android:orientation="vertical">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/e1"

android:hint="enter name"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/e2"

android:hint="enter dept"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/e3"

android:hint="enter phone"

android:inputType="number"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/e10"

android:hint="enter empid to update or delete"

android:inputType="number"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/b1"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:onClick="insert"

android:text="Insert"/>

<Button

android:id="@+id/b2"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:onClick="update"

android:text="Update"

/>

<Button

android:id="@+id/b3"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:onClick="delete"

android:text="Delete"/>

<Button

android:id="@+id/b4"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="Read"

android:onClick="read"/>

</LinearLayout>

</LinearLayout>

Output

