package com.example.dbconnection;

import androidx.appcompat.app.AppCompatActivity;

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 {

EditText id,name,sal,dob;

Button ins,srch,upd,clr,del;

SQLiteDatabase db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

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

id=(EditText) findViewById(R.id.*etid*);

name=(EditText) findViewById(R.id.*etname*);

sal=(EditText) findViewById(R.id.*etsal*);

dob=(EditText) findViewById(R.id.*etdob*);

ins=(Button)findViewById(R.id.*btins*);

srch=(Button)findViewById(R.id.*btsch*);

upd=(Button)findViewById(R.id.*btup*);

clr=(Button)findViewById(R.id.*btclr*);

del=(Button)findViewById(R.id.*btdel*);

try {

db = openOrCreateDatabase("empdb", *MODE\_PRIVATE*, null);

db.execSQL("Create table employee(id integer primary key,name Text,sal Number,dob Date)");

} catch (Exception e){ }

ins.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View v) {

try {

db.execSQL("insert into employee values(" +

id.getText().toString() + ",'" + name.getText().toString() + "'," +

sal.getText().toString() + ",'" + dob.getText().toString() + "')");

Toast.*makeText*(getApplicationContext(),"Record Inserted Successfully",Toast.*LENGTH\_SHORT*).show();

}catch(Exception e){

Toast.*makeText*(getApplicationContext(),"Error in Data",Toast.*LENGTH\_SHORT*).show();}

}

});

srch.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String x=id.getText().toString();

Cursor c=db.rawQuery("select \* from employee where id="+x,null);

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

Toast.*makeText*(getApplicationContext(),"No such record",Toast.*LENGTH\_SHORT*).show();

clr.callOnClick();

id.setText(x);

}

else{

c.moveToFirst();

clr.callOnClick();

id.setText(x);

name.setText(c.getString(1));

sal.setText(c.getString(2));

dob.setText(c.getString(3));

}

}

});

del.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

db.execSQL("delete from employee where id="+id.getText().toString());

Toast.*makeText*(getApplicationContext(),"Record Deleted Successfully",Toast.*LENGTH\_SHORT*).show();

}

});

upd.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

db.execSQL("update employee set name='"+name.getText().toString()+"' ,sal="+sal.getText().toString()+" , dob='"+dob.getText().toString()+"' where id="+id.getText());

Toast.*makeText*(getApplicationContext(),"Record updated Successfully",Toast.*LENGTH\_SHORT*).show();

}

});

clr.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

id.setText("");

name.setText("");

sal.setText("");

dob.setText("");

id.setText(""+getNextId());

}

});

clr.callOnClick();

}

public int getNextId() {

Cursor c = db.rawQuery("select max(id) as mid from employee ", null);

c.moveToFirst();

if (c.getString(0) == null)

return 1;

else {

int x = Integer.*parseInt*(c.getString(0));

return x + 1;

}

}

protected void onDestroy() {

db.close();

super.onDestroy();

}

}

Xml page:

*<?*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"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="40dp"

android:text="Enter ID:"

android:textStyle="italic"

android:textSize="24sp"

android:id="@+id/tvid"/>

<EditText

android:id="@+id/etid"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_toRightOf="@+id/tvid"

android:layout\_marginTop="40dp"

android:inputType="number"

android:textStyle="italic"

android:textSize="24sp"

android:ems="10"

android:text="" />

<TextView

android:id="@+id/tvname"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:layout\_below="@+id/tvid"

android:text="Enter Name:"

android:textStyle="italic"

android:textSize="24sp"

/>

<EditText

android:id="@+id/etname"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_toRightOf="@+id/tvname"

android:layout\_marginTop="10dp"

android:layout\_below="@+id/tvid"

android:inputType="text"

android:textStyle="italic"

android:textSize="24sp"

android:ems="10"

android:text="" />

<TextView

android:id="@+id/tvsal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:layout\_below="@+id/tvname"

android:text="Enter salary:"

android:textStyle="italic"

android:textSize="24sp"

/>

<EditText

android:id="@+id/etsal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_toRightOf="@+id/tvsal"

android:layout\_marginTop="10dp"

android:layout\_below="@+id/tvname"

android:inputType="number"

android:textStyle="italic"

android:textSize="24sp"

android:ems="10"

android:text="" />

<TextView

android:id="@+id/tvdob"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:text="Enter Date of birth:"

android:textStyle="italic"

android:layout\_below="@+id/tvsal"

android:textSize="24sp"

/>

<EditText

android:id="@+id/etdob"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/tvsal"

android:layout\_marginTop="10dp"

android:layout\_toRightOf="@+id/tvdob"

android:ems="10"

android:inputType="date"

android:text=""

android:textSize="24sp"

android:textStyle="italic" />

<Button

android:id="@+id/btins"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:layout\_below="@+id/tvdob"

android:text="INSERT" />

<Button

android:id="@+id/btup"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/tvdob"

android:layout\_marginLeft="10dp"

android:layout\_marginTop="15dp"

android:layout\_toRightOf="@+id/btins"

android:text="UPDATE" />

<Button

android:id="@+id/btdel"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:layout\_below="@+id/btins"

android:text="DELETE" />

<Button

android:id="@+id/btclr"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:layout\_marginLeft="10dp"

android:layout\_below="@+id/btup"

android:layout\_toRightOf="@+id/btdel"

android:text="CLEAR" />

<Button

android:id="@+id/btsch"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="10dp"

android:layout\_marginTop="215dp"

android:layout\_toRightOf="@+id/btup"

android:text="search" />

</RelativeLayout>



