**Practical no.-**26

**Title: Perform Async task using SQLite.**

**Roll No.:**15 **Batch-** A **Date of Performance:** 14/03/2024

**activity\_main.xml**

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

<AbsoluteLayout 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\_x="6dp"

android:layout\_y="112dp"

android:text="Name:"

android:textSize="20dp" />

<EditText

android:id="@+id/sname"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:layout\_x="96dp"

android:layout\_y="102dp"

android:hint="Enter Student Name"

android:minHeight="48dp" />

<EditText

android:id="@+id/scontact"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:layout\_x="96dp"

android:layout\_y="155dp"

android:hint="Enter Student Contact"

android:minHeight="48dp" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="8dp"

android:layout\_y="219dp"

android:text="Email:"

android:textSize="20dp" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="5dp"

android:layout\_y="171dp"

android:text="Contact:"

android:textSize="20dp" />

<EditText

android:id="@+id/semail"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:layout\_x="95dp"

android:layout\_y="213dp"

android:hint="Enter Student Email ID"

android:inputType="textEmailAddress"

android:minHeight="48dp" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="4dp"

android:layout\_y="272dp"

android:text="Address:"

android:textSize="20dp" />

<EditText

android:id="@+id/sadd"

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:layout\_x="97dp"

android:layout\_y="261dp"

android:hint="Enter Student Address:"

android:inputType="textMultiLine"

android:minHeight="48dp" />

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="8dp"

android:layout\_y="351dp"

android:text="Save" />

<Button

android:id="@+id/btn2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="125dp"

android:layout\_y="354dp"

android:text="View" />

<Button

android:id="@+id/btn3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_x="238dp"

android:layout\_y="352dp"

android:text="Clear" />

<TextView

android:id="@+id/txtdata"

android:layout\_width="350dp"

android:layout\_height="300dp"

android:layout\_x="7dp"

android:layout\_y="410dp" />

</AbsoluteLayout>

**MainActivity.java**

package com.example.pract\_26sqlitedb;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.ContentValues;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.widget.\*;

public class MainActivity extends AppCompatActivity {

EditText sname,scontact,semail,sadd;

Button btn1,btn2,btn3;

TextView txtdata;

SQLiteDatabase sdb;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

sname=findViewById(R.id.sname);

scontact=findViewById(R.id.scontact);

semail=findViewById(R.id.semail);

sadd=findViewById(R.id.sadd);

btn1=findViewById(R.id.btn1);

btn2=findViewById(R.id.btn2);

btn3=findViewById(R.id.btn3);

txtdata=findViewById(R.id.txtdata);

sdb=openOrCreateDatabase("StudentDB",0,null);

try {

sdb.execSQL("CREATE TABLE std\_contacts(sname text,scontact Number,semail text,sadd text)");

}catch (Exception e)

{

Log.d("Database Error",String.valueOf(e));

}

btn1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

ContentValues cv=new ContentValues();

cv.put("sname", sname.getText().toString());

cv.put("scontact", scontact.getText().toString());

cv.put("semail", semail.getText().toString());

cv.put("sadd", sadd.getText().toString());

if(sdb.insert("std\_contacts",null,cv)!=-1)

{

Toast.makeText(MainActivity.this,"Record Inserted Successfully..",Toast.LENGTH\_SHORT).show();

}

else

{

Toast.makeText(MainActivity.this,"Field to Insert Record..",Toast.LENGTH\_SHORT).show();

}

}

});

btn3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

sname.setText("");

semail.setText("");

scontact.setText("");

sadd.setText("");

}

});

btn2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Cursor cursor=sdb.rawQuery("SELECT \* FROM std\_contacts",null);

cursor.moveToFirst();

while (!cursor.isAfterLast())

{

txtdata.setText(cursor.getString(0)+"\n"+cursor.getString(1)+"\n"+cursor.getString(2)+"\n"+cursor.getString(3)+"\n");

cursor.moveToNext();

}

}

});

}

}

