**Name: Silvia Thomas**

**Roll No:38**

**Batch: MCA B**

**Date:15-11-2022**

**MOBILE APPLICATION DEVELOPMENT LAB**

**Lab Cycle**

**Experiment No.:**

**Aim**

SQLite

**Procedure**

**Activity\_main.xml**

*<?***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"**>  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="167dp"  
 android:layout\_height="71dp"  
 android:layout\_marginStart="110dp"  
 android:layout\_marginTop="38dp"  
 android:layout\_marginEnd="134dp"  
 android:text="INSERT"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName3"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="162dp"  
 android:layout\_height="71dp"  
 android:layout\_marginStart="114dp"  
 android:layout\_marginTop="2dp"  
 android:layout\_marginEnd="135dp"  
 android:layout\_marginBottom="239dp"  
 android:text="view"  
 android:textSize="20dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button"  
 app:layout\_constraintVertical\_bias="0.0"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="222dp"  
 android:layout\_height="62dp"  
 android:layout\_marginStart="66dp"  
 android:layout\_marginTop="124dp"  
 android:layout\_marginEnd="135dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Enter your ID"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="235dp"  
 android:layout\_height="54dp"  
 android:layout\_marginStart="67dp"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginEnd="134dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Enter your name"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.08"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName3"  
 android:layout\_width="235dp"  
 android:layout\_height="60dp"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="24dp"  
 android:layout\_marginEnd="129dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Enter your email"  
 android:textSize="20dp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName2"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="413dp"  
 android:layout\_height="60dp"  
 android:text="SQLITE"  
 tools:layout\_editor\_absoluteX="-2dp"  
 tools:layout\_editor\_absoluteY="2dp"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**MainActivity.java**

**package** com.example.sqlite;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**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 **roll**;  
 EditText **name**;  
 EditText **email**;  
 Button **insert**;  
 Button **view**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **roll**=findViewById(R.id.***editTextTextPersonName***);  
 **name**=findViewById(R.id.***editTextTextPersonName2***);  
 **email**=findViewById(R.id.***editTextTextPersonName3***);  
 **insert**=findViewById(R.id.***button***);  
 **view**=findViewById(R.id.***button2***);  
 **insert**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Integer Roll=Integer.*parseInt*(**roll**.getText().toString());  
 String name1=**name**.getText().toString();  
 String email1=**email**.getText().toString();  
  
 dbconn conn=**new** dbconn(getApplicationContext());  
 **boolean** insert\_result = conn.insertuserdata(Roll,name1,email1);  
 **if**(insert\_result==**true**){  
 Toast.*makeText*(MainActivity.**this**, **"Insert sucessfully"**, Toast.***LENGTH\_SHORT***).show();  
  
 }  
 **else**{  
 Toast.*makeText*(MainActivity.**this**, **"Insertion failed"**, Toast.***LENGTH\_SHORT***).show();  
 }  
  
 }  
 });  
  
  
 }  
}

**Dbconn.java**

**package** com.example.sqlite;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** androidx.annotation.Nullable;  
  
**public class** dbconn **extends** SQLiteOpenHelper {  
 **public** dbconn(@Nullable Context context) {  
 **super**(context, **"mydb"**, **null**, 1);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 db.execSQL(**"CREATE TABLE usertable(roll INTEGER PRIMARY KEY, name TEXT,email TEXT)"**);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 db.execSQL(**"DROP TABLE usertable"**);  
  
 }  
 **public boolean** insertuserdata(**int** user\_roll,String user\_name,String user\_email){  
 SQLiteDatabase db=**this**.getWritableDatabase();  
 ContentValues val=**new** ContentValues();  
 val.put(**"id"**,user\_roll);  
 val.put(**"name"**,user\_name);  
 val.put(**"email"**,user\_email);  
 **long** result=db.insert(**"usertable"**,**null**,val);  
 **if**(result>=0){  
 **return true**;  
 }  
 **else**{  
 **return false**;  
 }  
 }  
}