

**MOBILE APPLICATION DEVELOPMENT(MAD)**

**CSE 310**

**EXPERIMENT – SQLITE (OPEN HELPER)**

****

NAME: MOHAMMED SAIF

ID: 20181CSE0433

SEC: 7-CSE-7

QUESTION:

Flight booking

Design an android application for online flight booking. The user will input the name, telephone number, Arrival, Destination and Date & Time of Journey. [Use Date Picker, Time Picker].

Save all the booking details in the DB.

Based on the available data, help the flight-Booking agent to fetch the following details:

[A] Number of bookings made on a particular destination.(Bangalore)

[B] Find the booking details of a particular customer(name/Id).

AndroidManifest.XML

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.a20181cse0433\_sqlite">  
  
 <application  
 android:allowBackup="true"  
 android:icon="@drawable/logo"  
 android:label="@string/app\_name"  
 android:roundIcon="@drawable/logo"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.20181CSE0433\_SQLITE">  
 <activity  
 android:name=".Insertion"  
 android:exported="false" />  
 <activity  
 android:name=".selectBy"  
 android:exported="false" />  
 <activity  
 android:name=".Display"  
 android:exported="false" />  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
  
 <meta-data  
 android:name="preloaded\_fonts"  
 android:resource="@array/preloaded\_fonts" />  
 </application>  
  
</manifest>

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"  
 android:background="@drawable/activity"  
  
 tools:context=".MainActivity">  
  
  
 <Button  
 android:id="@+id/buttonAdd"  
 android:layout\_width="221dp"  
 android:layout\_height="44dp"  
 android:layout\_marginStart="41dp"  
 android:layout\_marginBottom="10dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="goToInsertion433"  
 android:text="insert data"  
 android:textColor="#FFFFFF"  
 app:layout\_constraintBottom\_toTopOf="@+id/buttonDisplay"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView5" />  
  
 <Button  
 android:id="@+id/buttonDisplay"  
 android:layout\_width="223dp"  
 android:layout\_height="49dp"  
 android:layout\_marginBottom="206dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="goToDisplay433"  
 android:text="show database"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="@+id/buttonAdd"  
 app:layout\_constraintStart\_toStartOf="@+id/buttonAdd"  
 app:layout\_constraintTop\_toBottomOf="@+id/buttonAdd" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="300dp"  
 android:layout\_height="0dp"  
  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="119dp"  
 android:layout\_marginBottom="183dp"  
 android:backgroundTint="#6E3332"  
 android:fontFamily="@font/almendra\_bold\_italic"  
 android:gravity="center|center\_horizontal"  
 android:text="mohammedsaif433 Travels"  
 android:textColor="#6E3332"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toTopOf="@+id/buttonAdd"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

ACTIVITY\_INSERTION.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"  
  
 android:background="#131313"  
 tools:context=".Insertion">  
  
 <EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:layout\_marginTop="101dp"  
 android:layout\_marginEnd="10dp"  
 android:backgroundTint="#BAB2B2"  
 android:ems="10"  
 android:hint="Name"  
 android:inputType="textPersonName"  
 android:minHeight="32dp"  
 android:textColor="#FFFFFF"  
 android:textColorHighlight="#777373"  
 android:textColorHint="#8A8585"  
 android:textColorLink="#777373"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:ignore="TouchTargetSizeCheck" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:layout\_marginEnd="10dp"  
 android:backgroundTint="#BAB2B2"  
 android:ems="10"  
 android:hint="Mobile NUmber"  
 android:inputType="phone"  
 android:minHeight="48dp"  
 android:textColor="#FFFFFF"  
 android:textColorHint="#8A8585"  
 app:layout\_constraintBaseline\_toBaselineOf="@+id/textView4"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="0dp"  
  
 android:layout\_height="43dp"  
 android:layout\_marginTop="25dp"  
 android:layout\_marginBottom="28dp"  
 android:backgroundTint="#BAB2B2"  
 android:dropDownSelector="#DD1212"  
 android:foregroundTint="#8A8585"  
 android:spinnerMode="dropdown"  
 app:layout\_constraintBottom\_toTopOf="@+id/textView2"  
 app:layout\_constraintEnd\_toEndOf="@+id/editTextTextPersonName2"  
 app:layout\_constraintStart\_toStartOf="@+id/editTextTextPersonName2"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName2"  
 tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />  
  
 <Spinner  
 android:id="@+id/spinner2"  
 android:layout\_width="0dp"  
 android:layout\_height="47dp"  
 android:layout\_marginStart="17dp"  
 android:layout\_marginTop="36dp"  
 android:layout\_marginEnd="13dp"  
 android:layout\_marginBottom="37dp"  
 android:backgroundTint="#BAB2B2"  
 app:layout\_constraintBottom\_toTopOf="@+id/editTextDate"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/textView2"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView3"  
 tools:ignore="SpeakableTextPresentCheck,TouchTargetSizeCheck" />  
  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:text="Enter Name: "  
 android:textColor="#BC5A58"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="@+id/editTextTextPersonName"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/editTextTextPersonName" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="21dp"  
 android:layout\_marginTop="8dp"  
 android:text="Destination Loc: "  
 android:textColor="#BC5A58"  
 android:textSize="20sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/spinner2" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="24dp"  
 android:layout\_marginTop="52dp"  
 android:text="Arrival Loc: "  
 android:textColor="#BC5A58"  
 android:textSize="20sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView4" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="27dp"  
 android:text="Enter Mobile No: "  
 android:textColor="#BC5A58"  
 android:textSize="20sp"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName" />  
  
 <EditText  
 android:id="@+id/editTextTime"  
 android:layout\_width="0dp"  
 android:layout\_height="63dp"  
 android:layout\_marginStart="17dp"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginEnd="17dp"  
 android:backgroundTint="#BAB2B2"  
 android:ems="10"  
 android:hint="SELECT TIME"  
 android:inputType="time"  
 android:textColor="#FFFFFF"  
 android:textColorHint="#8A8585"  
 app:layout\_constraintEnd\_toEndOf="@+id/spinner"  
 app:layout\_constraintStart\_toEndOf="@+id/textView2"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextDate" />  
  
 <EditText  
 android:id="@+id/editTextDate"  
 android:layout\_width="0dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="19dp"  
 android:layout\_marginTop="220dp"  
 android:layout\_marginEnd="18dp"  
 android:layout\_marginBottom="220dp"  
 android:backgroundTint="#BAB2B2"  
 android:ems="10"  
 android:hint="SELECT DATE"  
 android:inputType="date"  
 android:textColor="#FFFFFF"  
 android:textColorHint="#8A8585"  
 app:layout\_constraintBottom\_toBottomOf="@+id/button2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@+id/textView2"  
 app:layout\_constraintTop\_toTopOf="@+id/editTextTextPersonName2"  
 tools:ignore="TouchTargetSizeCheck" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="161dp"  
 android:layout\_height="57dp"  
 android:layout\_marginBottom="71dp"  
 android:backgroundTint="#6E3332"  
 android:text="ADD"  
 android:textColor="@color/white"  
 android:textSize="23sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
 <Button  
 android:id="@+id/buttonDate"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="18dp"  
 android:layout\_marginEnd="18dp"  
 android:backgroundTint="#6E3332"  
 android:text="click me to select date"  
 android:textColor="#FFFCFC"  
 app:layout\_constraintBottom\_toBottomOf="@+id/editTextDate"  
 app:layout\_constraintEnd\_toEndOf="@+id/textView4"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/editTextDate" />  
  
 <Button  
 android:id="@+id/buttonTime"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="21dp"  
 android:layout\_marginEnd="27dp"  
 android:backgroundTint="#6E3332"  
 android:text="click me to select time"  
 android:textColor="#FFFCFC"  
 app:layout\_constraintBottom\_toBottomOf="@+id/editTextTime"  
 app:layout\_constraintEnd\_toStartOf="@+id/editTextTime"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="@+id/editTextTime" />  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="273dp"  
 android:layout\_height="51dp"  
 android:layout\_marginTop="16dp"  
 android:fontFamily="@font/acme"  
 android:text="INSERT NEW DATA"  
 android:textColor="#D3E35151"  
 android:textSize="34sp"  
 android:textStyle="bold|italic"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**ACTIVITY\_DISPLAY.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"  
 android:layout\_gravity="center|center\_horizontal"  
 tools:context=".Display">  
  
  
 <TextView  
 android:id="@+id/textView7"  
 android:layout\_width="0dp"  
 android:layout\_height="0dp"  
 android:layout\_marginStart="46dp"  
 android:layout\_marginTop="153dp"  
 android:layout\_marginEnd="46dp"  
 android:layout\_marginBottom="83dp"  
 android:fontFamily="@font/acme"  
 android:text="PASSENGER DETAILS"  
 android:textColor="#D3E35151"  
 android:textSize="34sp"  
 android:textStyle="bold|italic"  
 app:layout\_constraintBottom\_toTopOf="@+id/button1"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="113dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="selectBy433"  
 android:text="SELECT BY DESTINATION LOCATION"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/buttonHomeDisplay"  
 app:layout\_constraintEnd\_toEndOf="@+id/button3"  
 app:layout\_constraintTop\_toBottomOf="@+id/button3" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="2dp"  
 android:layout\_marginBottom="6dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="selectBy433"  
 android:text="SELECT BY PASSENGER NAME"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/button3"  
 app:layout\_constraintEnd\_toEndOf="@+id/button1"  
 app:layout\_constraintTop\_toBottomOf="@+id/button1" />  
  
 <Button  
 android:id="@+id/button1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="16dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="showDB433"  
 android:text="SHOW PASSENGER DETAILS"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/button2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/textView7" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="16dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="selectBy433"  
 android:text="SELECT BY ARRIVAL LOCATION"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/button4"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button2" />

<Button  
 android:id="@+id/buttonCOUNT"  
 android:layout\_width="362dp"  
 android:layout\_height="45dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginBottom="61dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="selectBy433"  
 android:text="COUNT BOOKINGS BASED ON DESTINATION"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/buttonHomeDisplay"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/buttonlOC" />

<Button  
 android:id="@+id/buttonHomeDisplay"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="93dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="intent433"  
 android:text="GO TO HOME"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/button4" />  
</androidx.constraintlayout.widget.ConstraintLayout>

ACTIVITY\_SELECT\_BY.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=".selectBy">  
  
 <EditText  
 android:id="@+id/editTextTextPersonName4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="156dp"  
 android:backgroundTint="#6E3332"  
 android:ems="10"  
 android:hint="Enter Input Here"  
 android:inputType="textPersonName"  
 android:textAlignment="center"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button10"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="display"  
 android:text="show data"  
 android:textColor="@color/white"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName4" />  
  
 <Button  
 android:id="@+id/buttonPrev"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="22dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="intent433"  
 android:text="GO TO PREVIOUS PAGE"  
 android:textColor="@color/white"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/buttonHome" />  
  
 <Button  
 android:id="@+id/buttonHome"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginBottom="288dp"  
 android:backgroundTint="#6E3332"  
 android:onClick="intent433"  
 android:text="GO TO HOME"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

DATABASE.JAVA:

package com.example.a20181cse0433\_sqlite**;**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 DataBase extends SQLiteOpenHelper {  
  
 public static final String *DATABASE\_NAME* = "BOOKINGS.db"**;** public static final String *TABLE\_NAME* = "FLIGHT"**;** public static final String *col1* = "Name"**;** public static final String *col2* = "Mobile"**;** public static final String *col3* = "Arrival"**;** public static final String *col4* = "Destination"**;** public static final String *col5* = "Date"**;** public static final String *col6* = "Time"**;** public DataBase(@Nullable Context context) {  
 super(context**,** *DATABASE\_NAME***,** null**, 1**)**;** //Change to DB\_NAME , null , 1  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase sqLiteDatabase) {  
 sqLiteDatabase.execSQL("create table "+*TABLE\_NAME*+"(NAME TEXT,MOBILE TEXT,ARRIVAL TEXT,DESTINATION TEXT,DATE TEXT,TIME TEXT)")**;** }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase sqLiteDatabase**,** int i**,** int i1) {  
 sqLiteDatabase.execSQL("DROP TABLE IF EXISTS "+*TABLE\_NAME*)**;** onCreate(sqLiteDatabase)**;** }  
  
  
 //Adding Function for Insertion  
 public boolean insertData433(String name**,** String mobile**,** String arrival**,** String dest**,** String date**,** String time){  
 SQLiteDatabase db433 = this.getWritableDatabase()**;** ContentValues contentValues433 = new ContentValues()**;** contentValues433.put(*col1***,**name)**;** contentValues433.put(*col2***,**mobile)**;** contentValues433.put(*col3***,**arrival)**;** contentValues433.put(*col4***,**dest)**;** contentValues433.put(*col5***,**date)**;** contentValues433.put(*col6***,**time)**;** long res433 = db433.insert(*TABLE\_NAME***,**null**,**contentValues433)**;** if(res433==-**1**) return false**;** else return true**;** }  
  
  
 //Adding Function to Display the data in the table  
 public Cursor display433() {  
 SQLiteDatabase db = this.getWritableDatabase()**;** Cursor res = db.rawQuery("select \* from "+*TABLE\_NAME***,**null)**;** return res**;** }  
  
 public Cursor findByName433(String name){  
 SQLiteDatabase db = this.getWritableDatabase()**;** Cursor res = db.rawQuery("SELECT \* FROM "+*TABLE\_NAME*+" where Name = ?"**,**new String[]{name})**;** return res**;** }  
  
 public Cursor findByArrival433(String arrival){  
 SQLiteDatabase db = this.getWritableDatabase()**;** Cursor res = db.rawQuery("SELECT \* FROM "+*TABLE\_NAME*+" where Arrival = ?"**,**new String[]{arrival})**;** return res**;** }  
  
 public Cursor findByDestination433(String destination){  
 SQLiteDatabase db = this.getWritableDatabase()**;** Cursor res = db.rawQuery("SELECT \* FROM "+*TABLE\_NAME*+" where Destination = ?"**,**new String[]{destination})**;** return res**;** }  
  
  
}

MainActivity.Java:

package com.example.a20181cse0433\_sqlite**;**import androidx.appcompat.app.AlertDialog**;**import androidx.appcompat.app.AppCompatActivity**;**import android.app.DatePickerDialog**;**import android.app.TimePickerDialog**;**import android.content.Intent**;**import android.database.Cursor**;**import android.os.Bundle**;**import android.view.View**;**import android.widget.ArrayAdapter**;**import android.widget.Button**;**import android.widget.DatePicker**;**import android.widget.EditText**;**import android.widget.Spinner**;**import android.widget.TimePicker**;**import android.widget.Toast**;**import java.util.Calendar**;**public class MainActivity extends AppCompatActivity {  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState)**;** setContentView(R.layout.*activity\_main*)**;** }  
  
  
  
 public void goToDisplay433(View view) {  
 Intent i = new Intent(MainActivity.this**,**Display.class)**;** startActivity(i)**;** }  
  
 public void goToInsertion433(View view) {  
 Intent i = new Intent(MainActivity.this**,**Insertion.class)**;** startActivity(i)**;** }  
  
}

Insertion.Java:

package com.example.a20181cse0433\_sqlite**;**import androidx.appcompat.app.AppCompatActivity**;**import android.app.DatePickerDialog**;**import android.app.TimePickerDialog**;**import android.content.Intent**;**import android.os.Bundle**;**import android.view.View**;**import android.widget.ArrayAdapter**;**import android.widget.Button**;**import android.widget.DatePicker**;**import android.widget.EditText**;**import android.widget.Spinner**;**import android.widget.TimePicker**;**import android.widget.Toast**;**import java.util.Calendar**;**public class Insertion extends AppCompatActivity {  
  
 DataBase dataBase433**;** //new Class Name  
 EditText ed1**,** ed2**;** Spinner sp1**,** sp2**;** EditText dateEd**,** timeEd **;** Button addBtn433**,** dateBtn433**,** timeBtn433**;** String name433**,** mobile433**,** arrival433**,** destination433**,** date433**,** time433**;** @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState)**;** setContentView(R.layout.*activity\_insertion*)**;** dataBase433 = new DataBase(Insertion.this)**;** ed1 = findViewById(R.id.*editTextTextPersonName*)**;** ed2 = findViewById(R.id.*editTextTextPersonName2*)**;** sp1 = findViewById(R.id.*spinner*)**;** sp2 = findViewById(R.id.*spinner2*)**;** dateEd = findViewById(R.id.*editTextDate*)**;** timeEd = findViewById(R.id.*editTextTime*)**;** addBtn433 = findViewById(R.id.*button2*)**;** dateBtn433 = findViewById(R.id.*buttonDate*)**;** timeBtn433 = findViewById(R.id.*buttonTime*)**;** //Adding Values to Drop Down - Spinner  
  
 ArrayAdapter arr433 = new ArrayAdapter(this**,** android.R.layout.*simple\_spinner\_dropdown\_item***,**getResources().getStringArray(R.array.*Arrival*))**;** ArrayAdapter dest433 = new ArrayAdapter(this**,** android.R.layout.*simple\_spinner\_dropdown\_item***,**getResources().getStringArray(R.array.*Destination*))**;** //For Arrival Drop Down  
 arr433.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*)**;** sp1.setAdapter(arr433)**;** //For Destination DropDown  
 dest433.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*)**;** sp2.setAdapter(dest433)**;** //Selecting Date  
 dateBtn433.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Calendar c = Calendar.*getInstance*()**;** int mYear = c.get(Calendar.*YEAR*)**;** int mMonth = c.get(Calendar.*MONTH*)**;** int mDate = c.get(Calendar.*DATE*)**;** DatePickerDialog datePickerDialog = new DatePickerDialog(Insertion.this**,** android.R.style.*Theme\_DeviceDefault\_DialogWhenLarge***,** new DatePickerDialog.OnDateSetListener() {  
 @Override  
 public void onDateSet(DatePicker view**,** int year**,** int month**,** int dayOfMonth) {  
 dateEd.setText(dayOfMonth+"/"+(month+**1**)+"/"+year)**;** dateEd.setText(year+"-"+(month+**1**)+"-"+dayOfMonth)**;** }  
 }**,**mYear**,**mMonth**,**mDate)**;** datePickerDialog.show()**;** }  
 })**;** //Selecting Time  
 timeBtn433.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Calendar calendar = Calendar.*getInstance*()**;** int hour = calendar.get(Calendar.*HOUR*)**;** int min = calendar.get(Calendar.*MINUTE*)**;** TimePickerDialog timePickerDialog = new TimePickerDialog(Insertion.this**,** android.R.style.*Theme\_DeviceDefault\_Dialog***,** new TimePickerDialog.OnTimeSetListener() {  
 @Override  
 public void onTimeSet(TimePicker timePicker**,** int i**,** int i1) {  
 timeEd.setText(i+":"+i1)**;** }  
 }**,**hour**,**min**,**true)**;** timePickerDialog.show()**;** }  
 })**;** AddData433()**;**}  
  
 public void AddData433(){  
 addBtn433.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 name433 = ed1.getText().toString()**;** mobile433 = ed2.getText().toString()**;** arrival433 = sp1.getSelectedItem().toString()**;** destination433 = sp2.getSelectedItem().toString()**;** date433 = dateEd.getText().toString()**;** time433 = timeEd.getText().toString()**;** if(arrival433.equals(destination433)){  
 Toast.*makeText*(getApplicationContext()**,** "Arrival & Destination Can't be Same"**,** Toast.*LENGTH\_SHORT*).show()**;** }  
 else{  
  
  
  
 if (name433.equals("") || mobile433.equals("") || date433.equals("") || time433.equals("")) {  
 Toast.*makeText*(getApplicationContext()**,** "All Fields Are Mandatory"**,** Toast.*LENGTH\_SHORT*).show()**;** } else {  
 boolean isInserted433 = dataBase433.insertData433  
 (  
 name433**,** mobile433**,** arrival433**,** destination433**,** date433**,** time433  
 )**;** if (isInserted433)  
 Toast.*makeText*(Insertion.this**,** "Data Inserted"**,** Toast.*LENGTH\_SHORT*).show()**;** else  
 Toast.*makeText*(Insertion.this**,** "Data Not Inserted"**,** Toast.*LENGTH\_SHORT*).show()**;** Intent intent433 = new Intent(Insertion.this**,** MainActivity.class)**;** startActivity(intent433)**;** }  
 }  
 }  
 })**;** }  
}

Display.Java:

package com.example.a20181cse0433\_sqlite**;**import androidx.appcompat.app.AlertDialog**;**import androidx.appcompat.app.AppCompatActivity**;**import android.content.Intent**;**import android.database.Cursor**;**import android.os.Bundle**;**import android.view.View**;**import android.widget.Button**;**public class Display extends AppCompatActivity {  
 Button name433**,** arr433**,** dest433**,** showDatabase433**,**count433**;** DataBase dataBase433**;** MainActivity mainActivity433**;** @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState)**;** setContentView(R.layout.*activity\_display*)**;** dataBase433 = new DataBase(Display.this)**;** mainActivity433 = new MainActivity()**;** name433 = findViewById(R.id.*button2*)**;** arr433 = findViewById(R.id.*button3*)**;** dest433 = findViewById(R.id.*button4*)**;** showDatabase433 = findViewById(R.id.*button1*)**;** }  
  
 public void showDB433(View view) {  
 Cursor res = dataBase433.display433()**;** if(res.getCount() == **0**){  
 showMessage433("Error"**,**"No Data Found....")**;** return**;** }  
  
 StringBuffer stringBuffer433 = new StringBuffer()**;** while (res.moveToNext()){  
 stringBuffer433.append("Name: "+res.getString(**0**)+"\n")**;** stringBuffer433.append("Mobile Number: "+res.getString(**1**)+"\n")**;** stringBuffer433.append("Arrival : "+res.getString(**2**)+"\n")**;** stringBuffer433.append("Destination: "+res.getString(**3**)+"\n")**;** stringBuffer433.append("Date: "+res.getString(**4**)+"\n")**;** stringBuffer433.append("Time: "+res.getString(**5**)+"\n\n\n")**;** }  
 showMessage433("Data"**,**stringBuffer433.toString())**;** }  
  
 public void selectBy433(View view) {  
  
 String message433**;** Intent intent433 = new Intent(Display.this**,**selectBy.class)**;** switch (view.getId()){  
 case R.id.*button2*:  
 message433 = "byName"**;** intent433.putExtra("button"**,**message433)**;** startActivity(intent433)**;** break**;** case R.id.*button3*:  
 message433 = "byArrival"**;** intent433.putExtra("button"**,**message433)**;** startActivity(intent433)**;** break**;** case R.id.*button4*:  
 message433 = "byDestination"**;** intent433.putExtra("button"**,**message433)**;** startActivity(intent433)**;** break**;**

case R.id.*buttonCOUNT*:  
 message433 = "byCount"**;** intent433.putExtra("button"**,**message433)**;** startActivity(intent433)**;** break**;**

}  
  
  
 }  
  
 public void showMessage433(String title**,** String msg){  
 AlertDialog.Builder builder433 = new AlertDialog.Builder(this)**;** builder433.setCancelable(true)**;** builder433.setTitle(title)**;** builder433.setMessage(msg)**;** builder433.show()**;** }  
  
 public void intent433(View view) {  
 Intent intent = new Intent(Display.this**,**MainActivity.class)**;** startActivity(intent)**;** }  
}

SelectBy.Java:

package com.example.a20181cse0433\_sqlite**;**import android.content.Intent**;**import android.database.Cursor**;**import android.os.Bundle**;**import android.view.View**;**import android.widget.Button**;**import android.widget.EditText**;**public class selectBy extends Display {  
 DataBase dataBase**;** EditText editText**;** Button btn**;** String value433**;** String message433**;** @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState)**;** setContentView(R.layout.*activity\_select\_by*)**;** dataBase = new DataBase(selectBy.this)**;** editText = findViewById(R.id.*editTextTextPersonName4*)**;** btn = findViewById(R.id.*button10*)**;** Intent intent433 = getIntent()**;** message433 = intent433.getStringExtra("button")**;** }  
  
 public void display(View view) {  
  
 value433 = editText.getText().toString()**;** if(message433.equals("byName")){  
 Cursor res = dataBase.findByName433(value433)**;** if(res.getCount() == **0**){  
 showMessage433("Error"**,**"No Data Found!!!")**;** return**;** }  
  
 StringBuffer stringBuffer433 = new StringBuffer()**;** while (res.moveToNext()){  
 stringBuffer433.append("Name: "+res.getString(**0**)+"\n")**;** stringBuffer433.append("Mobile Number: "+res.getString(**1**)+"\n")**;** stringBuffer433.append("Arrival : "+res.getString(**2**)+"\n")**;** stringBuffer433.append("Destination: "+res.getString(**3**)+"\n")**;** stringBuffer433.append("Date: "+res.getString(**4**)+"\n")**;** stringBuffer433.append("Time: "+res.getString(**5**)+"\n\n\n")**;** }  
 showMessage433("Data Found By Name "+ value433**,**stringBuffer433.toString())**;** }  
  
  
  
 else if(message433.equals("byArrival")){  
 Cursor res433 = dataBase.findByArrival433(value433)**;** if(res433.getCount() == **0**){  
 showMessage433("Error"**,**"No Data Found!!!")**;** return**;** }  
  
 StringBuffer stringBuffer433 = new StringBuffer()**;** while (res433.moveToNext()){  
 stringBuffer433.append("Name: "+res433.getString(**0**)+"\n")**;** stringBuffer433.append("Mobile Number: "+res433.getString(**1**)+"\n")**;** stringBuffer433.append("Arrival : "+res433.getString(**2**)+"\n")**;** stringBuffer433.append("Destination: "+res433.getString(**3**)+"\n")**;** stringBuffer433.append("Date: "+res433.getString(**4**)+"\n")**;** stringBuffer433.append("Time: "+res433.getString(**5**)+"\n\n\n")**;** }  
 showMessage433("Data Found By Arrival "+ value433**,**stringBuffer433.toString())**;** }  
  
  
  
 else if(message433.equals("byDestination")){  
 Cursor res433 = dataBase.findByDestination433(value433)**;** if(res433.getCount() == **0**){  
 showMessage433("Error"**,**"No Data Found!!!")**;** return**;** }  
  
 StringBuffer stringBuffer = new StringBuffer()**;** while (res433.moveToNext()){  
 stringBuffer.append("Name: "+res433.getString(**0**)+"\n")**;** stringBuffer.append("Mobile Number: "+res433.getString(**1**)+"\n")**;** stringBuffer.append("Arrival : "+res433.getString(**2**)+"\n")**;** stringBuffer.append("Destination: "+res433.getString(**3**)+"\n")**;** stringBuffer.append("Date: "+res433.getString(**4**)+"\n")**;** stringBuffer.append("Time: "+res433.getString(**5**)+"\n\n\n")**;** }  
 showMessage433("Data Found By Destination "+ value433**,**stringBuffer.toString())**;** }  
  
 else if(message433.equals("byCount")){  
 Cursor res433 = dataBase.findByDestination433(value433)**;** int count = res433.getCount()**;** showMessage433("Total No of Records found for Destination: "+value433**,** String.*valueOf*(count))**;** return**;**}

}  
  
  
  
  
 public void intent433(View view) {  
 Intent intent433**;** switch (view.getId()){  
 case R.id.*buttonHome*:  
 intent433 = new Intent(selectBy.this**,**MainActivity.class)**;** startActivity(intent433)**;** break**;** case R.id.*buttonPrev*:  
 intent433 = new Intent(selectBy.this**,**Display.class)**;** startActivity(intent433)**;** break**;** }  
  
 }  
}

OUTPUT SCREENSHOTS

































