Pranshul Atri  
CH.EN.U4CYS21057

Code:

Activity\_main.xml:  
  
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:padding="16dp">  
  
 <LinearLayout  
 android:id="@+id/name\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:gravity="center\_vertical">  
  
 <ImageView  
 android:id="@+id/logo\_image"  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:src="@drawable/logo"  
 android:layout\_marginEnd="8dp" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
  
 <TextView  
 android:id="@+id/name\_text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pranshul Atri (Company Info App)"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 android:textColor="@android:color/black"  
 android:layout\_marginBottom="4dp"/>  
  
 <TextView  
 android:id="@+id/registration\_text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Registration No: Cys21057"  
 android:textSize="16sp"  
 android:textColor="@android:color/black" />  
 </LinearLayout>  
 </LinearLayout>  
  
 <EditText  
 android:id="@+id/editCompanyName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="50px"  
 android:hint="Company Name" />  
  
 <EditText  
 android:id="@+id/editDescription"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Description" />  
  
 <EditText  
 android:id="@+id/editFoundedDate"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Founded Date" />  
  
 <Button  
 android:id="@+id/btnSave"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Save" />  
  
 <Button  
 android:id="@+id/btnViewAll"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="View All Companies" />  
</LinearLayout>

Activity\_display.xml:  
  
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:gravity="center">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textSize="18sp" />  
</LinearLayout>

Activity\_display\_all.xml:  
  
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
  
 <SearchView  
 android:id="@+id/searchView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <ListView  
 android:id="@+id/listView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
</LinearLayout>

DisplayAllActivity.java:  
  
package com.example.companyapp;  
  
import android.database.Cursor;  
import android.os.Bundle;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
import android.widget.SearchView;  
import androidx.appcompat.app.AppCompatActivity;  
import java.util.ArrayList;  
  
public class DisplayAllActivity extends AppCompatActivity {  
 DatabaseHelper myDb;  
 ListView listView;  
 SearchView searchView;  
 ArrayList<String> companyList;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_display\_all*);  
  
 myDb = new DatabaseHelper(this);  
 listView = findViewById(R.id.*listView*);  
 searchView = findViewById(R.id.*searchView*);  
  
 loadCompanies();  
  
 searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {  
 @Override  
 public boolean onQueryTextSubmit(String query) {  
 return false;  
 }  
  
 @Override  
 public boolean onQueryTextChange(String newText) {  
 filter(newText);  
 return true;  
 }  
 });  
 }  
  
 private void loadCompanies() {  
 companyList = new ArrayList<>();  
 Cursor res = myDb.getAllData();  
 while (res.moveToNext()) {  
 String company = "Name: " + res.getString(1) + "\nDescription: " + res.getString(2) + "\nFounded Date: " + res.getString(3);  
 companyList.add(company);  
 }  
 ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.*simple\_list\_item\_1*, companyList);  
 listView.setAdapter(adapter);  
 }  
  
 private void filter(String text) {  
 ArrayList<String> filteredList = new ArrayList<>();  
 for (String item : companyList) {  
 if (item.toLowerCase().contains(text.toLowerCase())) {  
 filteredList.add(item);  
 }  
 }  
 ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.*simple\_list\_item\_1*, filteredList);  
 listView.setAdapter(adapter);  
 }  
}

DisplayActivity.java:  
  
package com.example.companyapp;  
  
import android.os.Bundle;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class DisplayActivity extends AppCompatActivity {  
 TextView textView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_display*);  
  
 textView = findViewById(R.id.*textView*);  
 String companyName = getIntent().getStringExtra("company\_name");  
 textView.setText("Saved Company: " + companyName);  
 }  
}

Mainactivity.java:  
  
package com.example.companyapp;  
  
import android.content.Intent;  
import android.database.Cursor;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
 DatabaseHelper myDb;  
 EditText editCompanyName, editDescription, editFoundedDate;  
 Button btnSave, btnViewAll;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 myDb = new DatabaseHelper(this);  
 editCompanyName = findViewById(R.id.*editCompanyName*);  
 editDescription = findViewById(R.id.*editDescription*);  
 editFoundedDate = findViewById(R.id.*editFoundedDate*);  
 btnSave = findViewById(R.id.*btnSave*);  
 btnViewAll = findViewById(R.id.*btnViewAll*);  
  
 btnSave.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String companyName = editCompanyName.getText().toString();  
 String description = editDescription.getText().toString();  
 String foundedDate = editFoundedDate.getText().toString();  
  
 if (myDb.insertData(companyName, description, foundedDate)) {  
 Toast.*makeText*(MainActivity.this, "Data Inserted", Toast.*LENGTH\_SHORT*).show();  
 Intent intent = new Intent(MainActivity.this, DisplayActivity.class);  
 intent.putExtra("company\_name", companyName);  
 startActivity(intent);  
 } else {  
 Toast.*makeText*(MainActivity.this, "Data not Inserted", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
  
 btnViewAll.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent intent = new Intent(MainActivity.this, DisplayAllActivity.class);  
 startActivity(intent);  
 }  
 });  
 }  
}

DatabaseHelper.java:  
  
package com.example.companyapp;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
  
public class DatabaseHelper extends SQLiteOpenHelper {  
 private static final String *DATABASE\_NAME* = "companies.db";  
 private static final String *TABLE\_NAME* = "company\_table";  
 private static final String *COL\_1* = "ID";  
 private static final String *COL\_2* = "COMPANY\_NAME";  
 private static final String *COL\_3* = "DESCRIPTION";  
 private static final String *COL\_4* = "FOUNDED\_DATE";  
  
 public DatabaseHelper(Context context) {  
 super(context, *DATABASE\_NAME*, null, 1);  
 }  
  
 @Override  
 public void onCreate(SQLiteDatabase db) {  
 db.execSQL("CREATE TABLE " + *TABLE\_NAME* + " (ID INTEGER PRIMARY KEY AUTOINCREMENT, COMPANY\_NAME TEXT, DESCRIPTION TEXT, FOUNDED\_DATE TEXT)");  
 }  
  
 @Override  
 public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {  
 db.execSQL("DROP TABLE IF EXISTS " + *TABLE\_NAME*);  
 onCreate(db);  
 }  
  
 public boolean insertData(String companyName, String description, String foundedDate) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 ContentValues contentValues = new ContentValues();  
 contentValues.put(*COL\_2*, companyName);  
 contentValues.put(*COL\_3*, description);  
 contentValues.put(*COL\_4*, foundedDate);  
 long result = db.insert(*TABLE\_NAME*, null, contentValues);  
 return result != -1; // returns true if data inserted successfully  
 }  
  
 public Cursor getAllData() {  
 SQLiteDatabase db = this.getWritableDatabase();  
 return db.rawQuery("SELECT \* FROM " + *TABLE\_NAME*, null);  
 }  
  
 public Cursor searchData(String query) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 return db.rawQuery("SELECT \* FROM " + *TABLE\_NAME* + " WHERE COMPANY\_NAME LIKE ?", new String[]{query + "%"});  
 }  
}

Outputs:  








