# Program 13: Database application using SQLite

#### Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    <TextView
        android:textAppearance="?android:attr/textAppearanceLarge"
    <TextView
        android:textAppearance="?android:attr/textAppearanceLarge"
    <TextView
        android:layout height="wrap content"
        android:textAppearance="?android:attr/textAppearanceLarge"
       android:text="Marks"
        android:layout alignParentLeft="true"
        android:layout alignParentStart="true" />
    <EditText
        android:layout width="match parent"
        android:layout toEndOf="@+id/textView" />
    <EditText
       android:layout width="match parent"
        android:layout height="wrap content"
       android:layout height="wrap content"
        android:layout below="@+id/editText surname"
        android:layout_toRightOf="@+id/textView3"
```

```
android:layout width="wrap content
       android:layout height="wrap content"
       android:layout marginTop="76dp" />
       android:layout width="wrap content"
       android:layout centerHorizontal="true" />
       android:layout width="wrap content"
        android:layout height="wrap content"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout alignStart="@+id/button viewAll" />
   <TextView
        android:textAppearance="?android:attr/textAppearanceLarge"
       android:layout below="@+id/editText Marks"
       android:layout alignParentLeft="true"
   <EditText
</RelativeLayout>
```

## Mainactivity.java

```
package com.example.pgm13;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
```

```
import android.widget.EditText;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       myDb = new DatabaseHelper(this);
       btnDelete= (Button)findViewById(R.id.button delete);
       AddData();
       btnDelete.setOnClickListener(
                new View.OnClickListener() {
                    @Override
                    public void onClick(View v) {
myDb.deleteData(editTextId.getText().toString());
                        if(deletedRows > 0)
Deleted", Toast.LENGTH LONG) .show();
   public void UpdateData() {
                    @Override
myDb.updateData(editTextId.getText().toString(), editName.getText().toString(),
editSurname.getText().toString(),editMarks.getText().toString());
```

```
public void AddData() {
myDb.insertData(editName.getText().toString(), editSurname.getText().toString(),
editMarks.getText().toString() );
                        if(isInserted == true)
                             Toast.makeText(MainActivity.this, "Data
        btnviewAll.setOnClickListener(
                new View.OnClickListener() {
                            buffer.append("Id :"+
                            buffer.append("Name :"+
                                     res.getString(1)+"\n");
                                     res.getString(2)+"\n");
                                     res.getString(3)+"\n'");
                        showMessage("Data", buffer.toString());
    public void showMessage(String title, String Message) {
        builder.setMessage(Message);
        builder.show();
```

### Databasehelper.java

```
package com.example.pgm13;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
public class DatabaseHelper extends SQLiteOpenHelper {
   public DatabaseHelper(Context context) {
   public void onCreate(SQLiteDatabase db) {
       db.execSQL("create table " + TABLE NAME +" (ID INTEGER PRIMARY KEY
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int
           newVersion) {
       db.execSQL("DROP TABLE IF EXISTS "+TABLE NAME);
   public boolean insertData(String name, String surname, String marks) {
        SQLiteDatabase db = this.getWritableDatabase();
```

#### Output



