

```

import android.database.Cursor;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    DataBaseHelper myDb;
    TextView txtResult;
    Button btnClick;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myDb = new DataBaseHelper(this);
        txtResult = (TextView) findViewById(R.id.idResult);
        btnClick = (Button) findViewById(R.id.idBtn);
        btnClick.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ClickMe();
            }
        });
    }

    private void ClickMe() {
        Cursor res = myDb.getAllData();
        StringBuffer stringBuffer = new StringBuffer();
        if(res!=null && res.getCount()>0){
            while (res.moveToNext()){
                stringBuffer.append("Id: "+res.getString(0)+"\n");
                stringBuffer.append("Name: "+res.getString(1)+"\n");
                stringBuffer.append("Surname: "+res.getString(2)+"\n");
                stringBuffer.append("Marks: "+res.getString(3)+"\n"+"");
            }
            txtResult.setText(stringBuffer.toString());
            Toast.makeText(this,"Data Retrieved
Successfully",Toast.LENGTH_SHORT).show();
        }else{
            Toast.makeText(this,"No Data to
Retrieve",Toast.LENGTH_SHORT).show();
        }
    }
}

```

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

```

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xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
tools:context="anu.com.sqlite.MainActivity"
android:orientation="vertical">

<Button
    android:id="@+id/idBtn"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="READ" />

<TextView
    android:id="@+id/idResult"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="25sp"/>
</LinearLayout>

```

## Database

```

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

/**
 * Created by Arjun on 4/2/2017.
 */
public class DataBaseHelper extends SQLiteOpenHelper {
    public static final String DATABASE_NAME = "Student.db";
    public static final String TABLE_NAME = "Student_table";

    public static final String COL_1 = "ID";
    public static final String COL_2 = "NAME";
    public static final String COL_3 = "SURNAME";
    public static final String COL_4 = "MARKS";

    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,NAME TEXT,SURNAME TEXT,MARKS INTEGER)");
    }

    @Override

```

```
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion)
{
    db.execSQL("DROP TABLE IF EXISTS "+TABLE_NAME);
}

public Cursor getAllData(){
    SQLiteDatabase db = this.getWritableDatabase();
    Cursor res = db.rawQuery("Select * from " + TABLE_NAME,null);
    return res;
}
}
```