# 스마트폰 프로그래밍 Assign #7

(제목 : SQLite Test)

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성명: 최 영 환

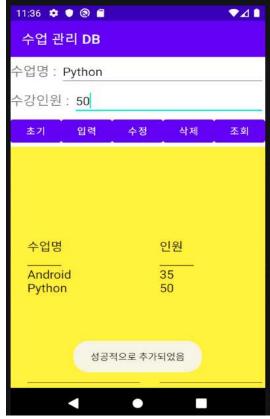
제출일자 : 2021.10.20

본인은 타인이나 다른 매체를 도용하지 않았음을 확인합니다 <본인사인>

## <실행화면>

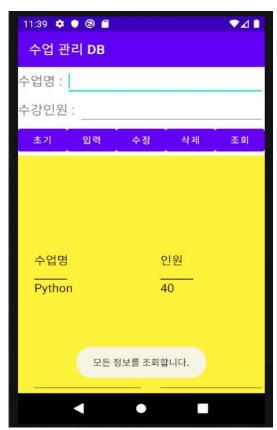


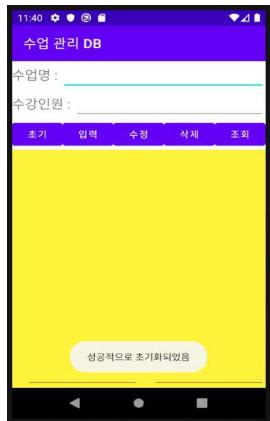












#### <MainActivity.java>

```
🛎 An. 🗷 🤤 😤 💠 — 🚜 activity_main.xml 🐇 🔞 MainActivity.java 🚿 🚜 strings.xml
                      33 🚜 public class MainActivity extends AppCompatActivity {
v 📭 арр
  > manifests
> java
                                   DBHelper helper;
                                   SQLiteDatabase db;
    v 🖿 com.example.sqli
                                  EditText editSubject;
     MainActivi
    > 🖾 com.example.sqli
                                   Moverride
                                   protected void onCreate(Bundle savedInstanceState) {
  ✓ ■ res
                                      super.onCreate(savedInstanceState);
    > 🖿 drawable
                                       setContentView(R.layout.activity_main);

✓ 

layout

                                       helper = new DBHelper( context this);
    > 🖪 mipmap
         🏭 colors xml
🏭 strings xml
                                           db = helper.getReadableDatabase();
> AP Gradle Scripts
                                       editSubject = (EditText) findViewById(R.id.editSubject);
                                       editPeople = (EditText) findViewById(R.id.editPeople);
                                       editSubjectResult = (EditText) findViewById(R.id.editSubjectResult);
                                       editPeopleResult = (EditText) findViewById(R.id.editPeopleResult);
```

```
void onClick(View view) {
                                                               String people
   La com.example sqliLa MainActivity.j.
                                                              String PeopleResult:

    DBHelper
    MainActivi

                                                                     Case R.id.ButtonInI:
db.execSQL("DROP TABLE IF EXISTS lecture");
db.execSQL("CREATE TABLE lecture ( _id INTEGER PRIMARY KEY AUTOINGREMENT, subject TEXT, people Text);");
Toast.makeText(getApplicationContext(), text "성공적으로 초기청되었음", Toast.LENGTH_SHORT).show();
> lik java (generate

> lik res

> lik drawable

✓ layout

activity_main.

   case R.id.buttonInput:
    subject = editSubject.getText().toString();
                                                                            people = editPeople.getText().toString();
                                                                            if (subject.equals("") || people.equals("")) {
Toast.makeText(getApplicationContext(), text "입력 실패: 빈칸을 입력하세요", Toast.LEMGTH_SHORT).show();
Gradle Scripts
                                                                                  SubjectResult = "수업명\n____
PeopleResult = "인원\n____
                                                                                  cursor = db.rawQuery( sql "SELECT subject, people FROM lecture", selectionArgs null)
while(cursor_moveToNext()) {
                                                                                         String subject_temp = cursor.getString( columnindex. 0);
if (subject.equals(subject_temp)) {
                                                                                   if(<u>activation</u> == true){
db.execSQL("INSERT INTO lecture VALUES (null, "" + subject + "", "" + people + "");");
Toast.makeText(getApplicationContext(), lext "성공적으로 추가되었음", Toast.LENGTH_SHORT).show();
An. 🛪 😌 😤 💠 — 🚜 activity_main.xml 🔻 🧿 MainActivity.java 🔻 🚜 strings.xml
                                                                                    cursor = db.rawQuery( sqt "SELECT subject, people FROM lecture", selectionArgs null);
while(cursor.moveToNext()) {
                                                                                           String subject_temp = <u>cursor</u>.getString( columnindex 0);
String people_temp = <u>cursor</u>.getString( columnindex 1);
   com example sqll
              DBHelperMainActivi
                                                                                           SubjectResult += "\n" + subject_temp;
PeopleResult += "\n" + people_temp;
                                                                                    editSubjectResult.setText(<u>SubjectResult</u>);
editPeopleResult.setText(<u>PeopleResult</u>);
  res

to drawable

balayout

activity_main:
                                                                      break;
case R.id.buttonEdit:
    subject = editSubject.getText().toString();
   activity_main.

improve minimap

improve minimap

improve values

improve colors.xml

improve strings.xml

improve themes (2)
                                                                             if (<u>subject</u>.equals("") || <u>people</u>.equals("")) {
    Toast.makeText(getApplicationContext(), text "입력 실패: 변찬을 입력하세요", Toast.LENGTH_SHORT).show();
res (genera
                                                                                    db.execSQL("UPDATE lecture <u>SET</u> people="" + <u>people</u> + " WHERE subject=" + <u>subject</u> + "");");
Toast.makeText(getApplicationContext(), text "성공적으로 수정되었음", Toast.LENGTH_SHORT).show();
                                                                                    PeopleResult = "12\n...";

cursor = db.rawQuery( sqt "SELECT subject, people FROM lecture;", selectionArgs null);
                                                                                      while(cursor.moveToNext()) {
                                                                                          subject = cursor.getString( columnindex 0);
people = cursor.getString( columnindex 1);
                                                                                           SubjectResult += "\n" + subject;
PeopleResult += "\n" + people;
                                                                                     editSubjectResult.setText(SubjectResult);
```

```
subject = editSubject.getText().toString();
      if (<u>subject</u>.equals("")) {
    Toast.makeText(getApplicationContext(), text "입력 실패: 수입명 을 입력하세요", Toast.LENGTH_SHORT).show();
            d).execSQL("DELETE FROM lecture WHERE subject="" + subject + "";");
Toast.makeText(getApplicationContext(), text "성공적으로 삭제되었음", Toast.LENGTH_SHORT).show();
            PeopleResult = "인원\n__
            cursor = db.FamQuery( spb "SELECT subject, people FROM lecture;", selectionArgs null);
while(cursor moveToNext()) {
               subject = cursor.getString( columnindex 0);
people = cursor.getString( columnindex 1);
                SubjectResult += "\n" + subject;
PeopleResult += "\n" + people;
case R.id.buttonSearch:
    subject = editSubject.getText().toString();
      PeopleResult = "92\n
            cursor = db.rawQuery( sqb."SELECT subject, people FROM lecture;", selectionArgs.null);
if (cursor.getCount() == 0) {
                  String subject_temp = <u>cursor</u>.getString( columnindex 0)
String people_temp = <u>cursor</u>.getString( columnindex 1);
                  SubjectResult += "\n" + subject_temp;
PeopleResult += "\n" + people_temp;
      cursor = db.pawQuery( sql "SELECT subject, people FROM lecture WHERE subject=" + subject + "",",
if (cursor.getCount() == 0) {
            String subject_temp = <u>cursor</u>.getString( columnindex 0);
String people_temp = <u>cursor</u>.getString( columnindex 1);
            SubjectResult += "\n" + subject_temp
PeopleResult += "\n" + people_temp;
r
editSubjectResult.setText(SubjectResult);
editPeopleResult.setText(PeopleResult);
break;
```

```
package com.example.sqlitetest;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.database.Cursor;
import android.database.SQLException;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
```

```
class DBHelper extends SQLiteOpenHelper {
    private static final String DATABASE_NAME ="MyLecture.db";
    private static final int DATABASE_VERSION =2;
    public DBHelper(Context context) {
        super(context, DATABASE NAME, null, DATABASE VERSION);
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE lecture ( _id INTEGER PRIMARY KEY AUTOINCREMENT,
subject TEXT, people Text);");
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        db.execSQL("DROP TABLE IF EXISTS lecture");
        onCreate(db);
    }
}
public class MainActivity extends AppCompatActivity {
    DBHelper helper;
    SQLiteDatabase db;
    EditText editSubject;
    EditText editPeople;
    EditText editSubjectResult;
    EditText editPeopleResult;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        helper = new DBHelper(this);
        try{
            db = helper.getWritableDatabase();
        } catch (SQLException ex) {
            db = helper.getReadableDatabase();
        }
        editSubject = (EditText) findViewByld(R.id.editSubject);
        editPeople = (EditText) findViewByld(R.id.editPeople);
        editSubjectResult = (EditText) findViewByld(R.id.editSubjectResult);
        editPeopleResult = (EditText) findViewById(R.id.editPeopleResult);
    }
    public void onClick(View view) {
        String subject;
        String people;
        String SubjectResult;
```

```
String PeopleResult;
        Cursor cursor;
        switch (view.getId()) {
            case R.id.buttonInit:
                db.execSQL("DROP TABLE IF EXISTS lecture");
                db.execSQL("CREATE TABLE lecture ( _id INTEGER PRIMARY KEY
AUTOINCREMENT, subject TEXT, people Text);");
                Toast.makeText(getApplicationContext(), "성공적으로 초기화되었음",
Toast.LENGTH_SHORT).show();
                editSubjectResult.setText("");
                editPeopleResult.setText("");
                break:
            case R.id.buttonInput:
                subject = editSubject.getText().toString();
                people = editPeople.getText().toString();
                if (subject.equals("") || people.equals("")) {
                    Toast.makeText(getApplicationContext(), "입력 실패: 빈칸을 입력하세
요", Toast.LENGTH_SHORT).show();
                }
                else {
                    SubjectResult ="수업명\n____";
                    PeopleResult ="인원\n____";
                    boolean activation =true;
                    cursor = db.rawQuery("SELECT subject, people FROM lecture", null);
                    while(cursor.moveToNext()) {
                        String subject_temp = cursor.getString(0);
                        if (subject.equals(subject_temp)) {
                            activation =false;
                        }
                    }
                    if(activation ==true){
                        db.execSQL("INSERT INTO lecture VALUES (null, '"+ subject +"',
""+ people +"");");
                        Toast.makeText(getApplicationContext(), "성공적으로 추가되었음",
Toast.LENGTH_SHORT).show();
                    }
                    else {
                        Toast.makeText(getApplicationContext(), "이미 존재하는 과목입니
다.", Toast.LENGTH_SHORT).show();
                    }
                    cursor = db.rawQuery("SELECT subject, people FROM lecture", null);
```

```
while(cursor.moveToNext()) {
                        String subject_temp = cursor.getString(0);
                        String people_temp = cursor.getString(1);
                        SubjectResult +="₩n"+ subject_temp;
                        PeopleResult +="₩n"+ people_temp;
                    }
                    editSubjectResult.setText(SubjectResult);
                    editPeopleResult.setText(PeopleResult);
                }
                break;
            case R.id.buttonEdit:
                subject = editSubject.getText().toString();
                people = editPeople.getText().toString();
                if (subject.equals("") || people.equals("")) {
                    Toast.makeText(getApplicationContext(), "입력 실패: 빈칸을 입력하세
요", Toast.LENGTH_SHORT).show();
                }
                else {
                    db.execSQL("UPDATE lecture SET people='"+ people +"' WHERE
subject=""+ subject +"";");
                    Toast.makeText(getApplicationContext(), "성공적으로
                                                                           수정되었음",
Toast.LENGTH_SHORT).show();
                    SubjectResult ="수업명\n___";
                    PeopleResult ="인원\n____";
                    cursor = db.rawQuery("SELECT subject, people FROM lecture;", null);
                    while(cursor.moveToNext()) {
                        subject = cursor.getString(0);
                        people = cursor.getString(1);
                        SubjectResult +="₩n"+ subject;
                        PeopleResult +="₩n"+ people;
                    }
                    editSubjectResult.setText(SubjectResult);
                    editPeopleResult.setText(PeopleResult);
                }
                break;
            case R.id.buttonDel:
                subject = editSubject.getText().toString();
                if (subject.equals("")) {
                    Toast.makeText(getApplicationContext(), "입력 실패: 수업명 을 입력하
세요", Toast.LENGTH_SHORT).show();
                }
```

```
else{
                    db.execSQL("DELETE FROM lecture WHERE subject=""+ subject +"";");
                    Toast.makeText(getApplicationContext(), "성공적으로
                                                                          삭제되었음",
Toast.LENGTH_SHORT).show();
                    SubjectResult ="수업명\n";
                    PeopleResult ="인원\n____";
                    cursor = db.rawQuery("SELECT subject, people FROM lecture;", null);
                    while(cursor.moveToNext()) {
                        subject = cursor.getString(0);
                        people = cursor.getString(1);
                        SubjectResult +="₩n"+ subject;
                        PeopleResult +="\mun"+ people;
                    }
                    editSubjectResult.setText(SubjectResult);
                    editPeopleResult.setText(PeopleResult);
                }
                break:
            case R.id.buttonSearch:
                subject = editSubject.getText().toString();
                SubjectResult ="수업명\n";
                PeopleResult ="인원\n____";
                if (subject.equals("")) {
                    cursor = db.rawQuery("SELECT subject, people FROM lecture;", null);
                    if (cursor.getCount() ==0) {
                        Toast.makeText(getApplicationContext(), "데이터가 존재하지 않습
니다.", Toast.LENGTH_SHORT).show();
                        break:
                    }
                    while(cursor.moveToNext()) {
                        String subject_temp = cursor.getString(0);
                        String people_temp = cursor.getString(1);
                        SubjectResult +="₩n"+ subject_temp;
                        PeopleResult +="₩n"+ people_temp;
                    }
                    Toast.makeText(getApplicationContext(), "모든 정보를 조회합니다.",
Toast.LENGTH_SHORT).show();
                }
                else{
                    cursor = db.rawQuery("SELECT subject, people FROM lecture WHERE
subject=""+ subject +"";", null);
                    if (cursor.getCount() ==0) {
```

```
Toast.makeText(getApplicationContext(), "데이터가 존재하지 않습
니다.", Toast.LENGTH_SHORT).show();
                         break;
                    }
                    while(cursor.moveToNext()) {
                         String subject_temp = cursor.getString(0);
                         String people_temp = cursor.getString(1);
                         SubjectResult +="₩n"+ subject_temp;
                         PeopleResult +="\mathcal{H}n"+ people_temp;
                     }
                     Toast.makeText(getApplicationContext(), subject +" 정보를 조회합니
다.", Toast.LENGTH_SHORT).show();
                }
                editSubjectResult.setText(SubjectResult);
                editPeopleResult.setText(PeopleResult);
                break;
        }
    }
}
```

## <string.xml>

```
🚜 strings.xml
🗸 🏬 арр
                                                                                                                                 Edit translations for all locales in the translations editor.
                                                                                                                                                                  <resources>
            Y 🛅 java
                                                                                                                                                                       🤵 <string name="app_name">수업 관리 DB</string>
                        </resources>
                                      Y 🌚 MainActivity.ji
                                                                 OBHelper
                                                                 MainActivi
                         > 🖿 com.example.sqli
                          > 🖿 com.example.sqli
             > k java (generated)
             🗸 📭 res
                         > De drawable

✓ Image: Value of the large of the larg
                                                    activity_main.:
                          > 🖿 mipmap

✓ D values

                                                    acolors.xml
                                                    🏭 strings.xml
                                       > Im themes (2)
                         res (generated)
> A Gradle Scripts
```

#### <activity\_main.xml>

```
atrings.xml
🗸 🟬 арр
                               <?xml version="1.0" encoding="utf-8"?>
                               <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android</pre>

    com.example.sqli

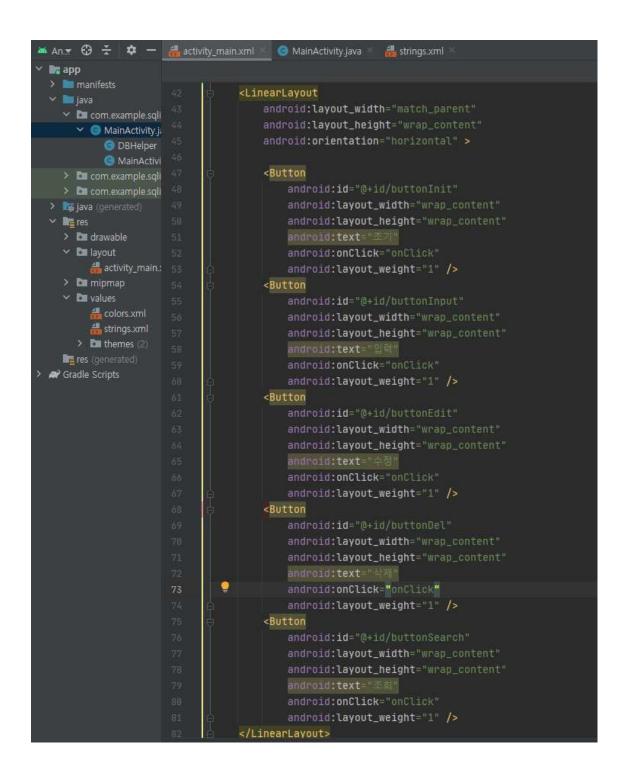
✓ ◎ MainActivity.ja
                                   android:layout_width="match_parent"
                                   android:layout_height="match_parent"
    > 🔼 com example sqli
> 陆 com example sqli
                                   android:orientation="vertical"
                                tools:context=".MainActivity">

✓ Image
res

                                   <LinearLayout
                                        android:layout_width="match_parent"
                                        android:layout_height="wrap_content"
         🏭 activity_main.:
                                        android:orientation="horizontal">

→ la values

         acolors.xml
                                       <TextView
         atrings.xml
                                            android:layout_width="wrap_content"
      > t themes (2)
                                            android:layout_height="wrap_content"
> A Gradle Scripts
                                            android:textSize="20dp" />
                                        <EditText
                                            android:layout_width="match_parent"
                                            android:layout_height="wrap_content" />
                                   </LinearLayout>
                                   <LinearLayout
                                        android:layout_width="match_parent"
                                        android:layout_height="wrap_content"
                                        android:orientation="horizontal">
                                            android:layout_width="wrap_content"
                                            android:layout_height="wrap_content"
                                            android:textSize="20dp" />
                                        <EditText
                                            android:layout_width="match_parent"
                                            android:layout_height="wrap_content" />
                                   </LinearLayout>
```



```
<LinearLayout
                                android:layout_width="match_parent"

✓ ⑤ MainActivity.j

                                android:orientation="horizontal"
                                android:background="#FFEB3B">
    > 🖿 com example sqli
                                <EditText
                                    android:layout_height="match_parent"
    > 🖿 drawable
    ✓ 🖿 layout

ä activity_main.
    > III mipmap
                                    android:layout_marginLeft="20dp" />
      Di values
        d colors.xml
                                <EditText
                                    android:layout_height="match_parent"
  </LinearLayout>
                          </LinearLayout>
<?xml version="1.0"encoding="utf-8"?>
<LinearLayout
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:orientation="vertical"
tools:context=".MainActivity">
    <LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal">
         <TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="수업명:"
android:textSize="20dp"/>
         <EditText
android:id="@+id/editSubject"
android:layout_width="match_parent"
android:layout_height="wrap_content"/>
    </LinearLayout >
    <LinearLayout
```

android:layout width="match parent"

```
android:layout_height="wrap_content"
android:orientation="horizontal">
        <TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="수강인원:"
android:textSize="20dp"/>
        <EditText
android:id="@+id/editPeople"
android:layout_width="match_parent"
android:layout_height="wrap_content"/>
    </LinearLayout >
    <LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="horizontal">
        <Button
android:id="@+id/buttonInit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="초기"
android:onClick="onClick"
android:layout_weight="1"/>
        <Button
android:id="@+id/buttonInput"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="입력"
android:onClick="onClick"
android:layout_weight="1"/>
        <Button
android:id="@+id/buttonEdit"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="수정"
android:onClick="onClick"
android:layout_weight="1"/>
        <Button
android:id="@+id/buttonDel"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
android:text="삭제"
android:onClick="onClick"
android:layout_weight="1"/>
        <Button
android:id="@+id/buttonSearch"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="조회"
android:onClick="onClick"
android:layout_weight="1"/>
    </LinearLayout >
    <LinearLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="horizontal"
android:background="#FFEB3B">
        <EditText
android:id="@+id/editSubjectResult"
android:layout_width="wrap_content"
android:layout_height="match_parent"
android:layout_weight="1"
android:singleLine="false"
android:layout_marginLeft="20dp"/>
        <EditText
android:id="@+id/editPeopleResult"
android:layout_width="wrap_content"
android:layout_height="match_parent"
android:layout_weight="1"
android:singleLine="false"
android:layout_marginLeft="20dp"/>
    </LinearLayout >
</LinearLayout >
```