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## **SQLite Overview**

- Richard Hipp (2000)
- 깍지만 성능이 굉장히 뒤어난 데이터베이스 엔진
- iPhone, 심비안, 모질라 파이어폭스, 맥OS,솔라리스etc
- Free S/W
- Tiny: 150kb >
- 설치나 관리가 용이
  - 서버X, 구성파일X, 데이터 베이스 관리까 X
  - SQLite 데이터 베이스는 File이다!
  - 파일에 SQL(Structured Query Language)를 사용해서 접근

MANBACK 본 문서의 저작권은 안백전자에 있으며, 어락 없이 무단 복제 및 전제를 불어압니다.

## SQLite 라이센스

- 소스 코드는 별도의 domain에 있음 (라이선스X)
- 선을 행하고 약을 멀리하라
- 자신을 용서하고 남을 용서하라
- 서로 나누며 자신이 베푼 만큼만 취하라

# SQL 기본

- DDL(Data Definition Language)
   Create table mytable (
   \_id integer primary key autoincrement
   name text,
   phone text );
- Modification

Insert into mytable values(null, 'Park', '939-6511');

• Query

Select name, phone from mytable
where (name like "%Park%");

```
SQL은 대소문자 구별X
```

## 안드로이드 프로젝트 생성

- 다음 내용을 입력
- [완료] 선택

Project Name : TestDB Build Target : Android 1.5

Application Name : TestDB Package Name : hanback.example.testdb Activity Name : TestDB

🖨 New Android Project 🛛	- 🗆 🛛
New Android Project Creates a new Android Project resource,	D
Project name:       TestDB         Contents <ul> <li>Create new project in workspace</li> <li>Create project from existing source</li> <li>Use default location</li> <li>Location:</li> <li>C:/androidWorkspace/TestDB</li> <li>Brows</li> </ul> Build Target         Target Name         Vendor         Platform           I Android 1.1         Android Open Source Project         1.1           Android 1.5         Android Open Source Project         1.5           Coogle Arrs         Coogle Inc.         1.5           Standard Android platform 1.5         Properties         Properties           Properties         Properties         Properties         Properties	API
Application name: TestDB Package name: hanback,example,testdb I Create Activity: TestDB Min SDK Version: 3 PER(F) 3	

#### 예제코드 public class TestDB extends ListActivity { private SQLiteDatabase dbase; private Cursor cursor; /\*\* Called when the activity is first created. \*/ **@**Override $\Theta$ public void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); dbase = this.openOrCreateDatabase("PhoneBook", MODE PRIVATE, null); dbase.execSQL("drop table if exists users"); dbase.execSOL("create table users (" + " id integer primary key autoincrement, " + "Name text not null, " + "Phone text not null);" ); dbase.execSQL("insert into users " + "(Name, Phone) values ('Park', '939-6511');");



#### 에제코드

```
dbase.execSQL("insert into users " +
        "(Name, Phone) values ('Park', '939-6511');");
ContentValues insertValue = new ContentValues();
insertValue.put("Name", "Kim");
insertValue.put("Phone", "851-9656");
dbase.insert("users", null, insertValue);
cursor = dbase.query("users",
            new String[] {"Name", "Phone"},
            null,
            null,
            null,
            "___id",
            "5");
```

#### 예제코드 ArrayList<HashMap<String, String> > list = new ArrayList<HashMap<String, String> >(); if (cursor != null) if (cursor.moveToFirst()) { do { HashMap<String, String> item = new HashMap<String, String>(); for (int i = 0; i < cursor.getColumnCount(); ++i) {</pre> item.put(cursor.getColumnName(i), cursor.getString(i)); list.add(item); } } while (cursor.moveToNext()); } SimpleAdapter adapter = new SimpleAdapter( this, list, R.layout.main, new String[] {"Name", "Phone"}, new int[] {R.id.TextView01, R.id.TextView02} ); this.setListAdapter(adapter); if (dbase != null) dbase.close();

MBACE 본 문서의 저작권은 안백전자에 있으며, 허락 없이 무단 복제 및 전제를 불어압니다.

# 결과 왁인

TestDB	
Park 939-6511	
Park 939-6511	
Kim 851-9656	
Kim 851-9656	

	Name	Size	Date	Time	Permissions
DB	🖃 🗁 data		2009-07-06	05:26	drwxrwxx
	🕀 🗁 anr		2009-07-06	05:26	drwxrwxrwx
	표 🗁 арр		2009-07-06	05:26	drwxrwxx
14	표 🗁 app-private		2009-07-06	05:26	drwxrwxx
	표 🗁 dalvik-cache		2009-07-06	05:26	drwxrwxx
	😑 🗁 data		2009-07-06	05:26	drwxrwxx
	🗉 🗁 com, android, alarmclock		2009-07-06	05:26	drwxr-xr-x
	표 🗁 com, android, browser		2009-07-06	05:26	drwxr-xr-x
	표 🗁 com, android, calculator2		2009-07-06	05:26	drwxr-xr-x
	표 🗁 com, android, camera		2009-07-06	05:26	drwxr-xr-x
	🗉 🗁 com, android, contacts		2009-07-06	05:26	drwxr-xr-x
	🗉 🗁 com, android, customlocale		2009-07-06	05:26	drwxr-xr-x
	🗉 📂 com, android, development		2009-07-06	05:26	drwxr-xr-x
	🗉 📂 com, android, email		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, fallback		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, googlesearch		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, htmlviewer		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, inputmethod, latin		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, inputmethod, pinyin		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, launcher		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, mms		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, music		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, netspeed		2009-07-06	05:27	drwxr-xr-x
	🗉 😂 com, android, packageinstaller		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, phone		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, providers, contacts		2009-07-06	05:26	drwxr-xr-x
	표 🗁 com, android, providers, downloads		2009-07-06	05:26	drwxr-xr-x
	표 🗁 com, android, providers, drm		2009-07-06	05:27	drwxr-xr-x
	표 🗁 com, android, providers, media		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, providers, settings		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, providers, telephony		2009-07-06	05:27	drwxr-xr-x
	🗉 😂 com, android, providers, userdictionary		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, sdksetup		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, settings		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, soundrecorder		2009-07-06	05:27	drwxr-xr-x
	🗉 😂 com, android, spare_parts		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 com, android, term		2009-07-06	05:27	drwxr-xr-x
	🗉 🗁 hanback example, greeting		2009-07-06	07:16	drwxr-xr-x
	🗉 📴 hanback,example, lifecycle		2009-07-07	05:35	drwxr-xr-x
	🗉 😂 hanback,example,test		2009-07-06	05:51	drwxr-xr-x
	🗉 📴 hanback,example,testcustomview		2009-07-07	00:45	drwxr-xr-x
	🖃 🗁 hanback,example,testdb		2009-07-07	22:07	drwxr-xr-x
	🖃 🗁 databases		2009-07-07	22:07	drwxrwxx

# adb로 파일 내용 확인하기

Microsoft Windows XP [Version 5.1.2600]

```
C:\android-sdk-windows-1.5_r2\tools>adb_shell
# cd /data/data/hanback.example.testdb/databases
cd /data/data/hanback.example.testdb/databases
  ls
 $
PhoneBook
# sqlite3 PhoneBook
sqlite3 PhoneBook
SQLite version 3.5.9
Enter ".help" for instructions
sqlite> .tables
.tables
android_metadata users
sqlite> select * from usres;
select * from usres;
SQL error: no such table: usres
sqlite> select * from users;
select * from users;
1|Park|939-6511
2|Kim|851-9656
salite≻
```

HANBACK 본 문서의 저작권은 안백전자에 있으며, 어락 없이 무단 복제 및 전제를 불어압니다.