ContentProvider用于程序直接的数据访问

**示例读取通讯录的ContentProvider**

添加权限

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.myapplication">  
  
 <uses-permission android:name="android.permission.READ\_CONTACTS"/>  
  
</manifest>

Java代码

public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Button btn = findViewById(R.id.*start*);  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 getContacts();  
 }  
 });  
 }  
  
 private void getContacts(){  
 //①查询raw\_contacts表获得联系人的id  
 ContentResolver resolver = getContentResolver();  
 Uri uri = ContactsContract.CommonDataKinds.Phone.*CONTENT\_URI*;  
 //查询联系人数据  
 Cursor cursor = resolver.query(uri, null, null, null, null);  
 while(cursor.moveToNext())  
 {  
 //获取联系人姓名,手机号码  
 String cName = cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.*DISPLAY\_NAME*));  
 String cNum = cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.*NUMBER*));  
 System.*out*.println("姓名:" + cName);  
 System.*out*.println("号码:" + cNum);  
 System.*out*.println("======================");  
 }  
 cursor.close();  
 }  
}

**当然，我们也可以定义自己的ContentProvider，这里不进行介绍**