



W15

strings.xml

```
1 <resources>
2     <string name="app_name">My Java App</string>
3     <string name="name">Input name: </string>
4     <string name="phone">Input phone: </string>
5     <string name="email">Input email: </string>
6     <string name="sure">Sure</string>
7     <string name="exit">Exit</string>
8     <string name="result">Display Result: </string>
9     <string name="err">Error !!</string>
10    <string name="succ">Insert Successful !!</string>
11    <string name="drop">Delete Database Table !!</string>
12    <string name="cre">create Table</string>
13    <string name="dr_succ">Delete Table Successful !!</string>
14    <string name="tot">Total</string>
15    <string name="data">records!! </string>
16 </resources>
```

zh-rTW\strings.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <string name="app_name">資料庫</string>
4      <string name="name">輸入姓名: </string>
5      <string name="phone">輸入電話: </string>
6      <string name="email">輸入電郵: </string>
7      <string name="sure">確定</string>
8      <string name="exit">離開</string>
9      <string name="result">顯示結果: </string>
10     <string name="err">資料有誤!!</string>
11     <string name="succ">新增成功!!</string>
12     <string name="drop">刪除表格!!</string>
13     <string name="cre">建立表格</string>
14     <string name="dr_succ">刪除成功!!</string>
15     <string name="tot">總共有</string>
16     <string name="data">筆資料!! </string>
17 </resources>
```

activity_main.xml

```
9  <TextView
10      android:layout_width="wrap_content"
11      android:layout_height="wrap_content"
12      android:text="@string/name"
13      android:id="@+id/text1"/>
14  <EditText
15      android:id="@+id/ed_na"
16      android:layout_width="wrap_content"
17      android:layout_height="wrap_content"
18      android:ems="10"
19      android:layout_toRightOf="@+id/text1"
20      android:inputType="textPersonName"
21      android:text=""/>
22
23  <TextView
24      android:layout_width="wrap_content"
25      android:layout_height="wrap_content"
26      android:text="@string/phone"
27      android:layout_below="@+id/ed_na"
28      android:id="@+id/text2"/>
29  <EditText
30      android:id="@+id/ed_ph"
31      android:layout_width="wrap_content"
32      android:layout_height="wrap_content"
33      android:ems="10"
34      android:layout_below="@+id/ed_na"
35      android:layout_toRightOf="@+id/text2"
36      android:inputType="numberDecimal"
37      android:text=""/>
```

```
39 <TextView
40     android:layout_width="wrap_content"
41     android:layout_height="wrap_content"
42     android:text="@string/email"
43     android:layout_below="@+id/ed_ph"
44     android:id="@+id/text3"/>
45 <EditText
46     android:id="@+id/ed_em"
47     android:layout_width="wrap_content"
48     android:layout_height="wrap_content"
49     android:ems="10"
50     android:layout_below="@+id/ed_ph"
51     android:layout_toRightOf="@+id/text3"
52     android:inputType="textPersonName"
53     android:text=""/>
```

```
55 <Button
56     android:id="@+id/b1"
57     android:layout_width="wrap_content"
58     android:layout_height="wrap_content"
59     android:layout_below="@+id/ed_em"
60     android:text="@string/sure"/>
61 <Button
62     android:id="@+id/b2"
63     android:layout_width="wrap_content"
64     android:layout_height="wrap_content"
65     android:layout_below="@+id/ed_em"
66     android:layout_toRightOf="@+id/b1"
67     android:text="@string/exit"/>
68 <Button
69     android:id="@+id/b3"
70     android:layout_width="wrap_content"
71     android:layout_height="wrap_content"
72     android:layout_below="@+id/ed_em"
73     android:layout_toRightOf="@+id/b2"
74     android:text="@string/drop"/>
```

```

76 <Button
77     android:id="@+id/b4"
78     android:layout_width="wrap_content"
79     android:layout_height="wrap_content"
80     android:layout_below="@+id/ed_em"
81     android:layout_toRightOf="@+id/b3"
82     android:text="@string/cre"/>
83 <TextView
84     android:id="@+id/rr"
85     android:layout_width="wrap_content"
86     android:layout_height="wrap_content"
87     android:layout_below="@+id/b1"
88     android:text="@string/result"/>
89
90 </RelativeLayout>

```

MainActivity.java

```

15 public class MainActivity extends AppCompatActivity implements View.OnClickListener{
16     1 usage
17     String db_name="test", db_table="custom"; TextView rr; SQLiteDatabase db;
18     9 usages
19     String[] field={"name", "phone", "email"}; EditText na,ph,em; Button b1,b2,b3,b4; Cursor cur=null;
20     protected void onCreate(Bundle savedInstanceState) {
21         super.onCreate(savedInstanceState);
22         setContentView(R.layout.activity_main);
23         rr=(TextView) findViewById(R.id.rr);
24         b1=(Button) findViewById(R.id.b1); b1.setOnClickListener(this);
25         b2=(Button) findViewById(R.id.b2); b2.setOnClickListener(this);
26         b3=(Button) findViewById(R.id.b3); b3.setOnClickListener(this);
27         b4=(Button) findViewById(R.id.b4); b4.setOnClickListener(this);
28         na=(EditText) findViewById(R.id.ed_na);
29         ph=(EditText) findViewById(R.id.ed_ph);
30         em=(EditText) findViewById(R.id.ed_em);
31         db=openOrCreateDatabase(db_name, MODE_PRIVATE, factory: null);
32         String sql="create table if not exists "+db_table+
33             "("+field[0]+" varchar(16), "+field[1]+" varchar(16), "+field[2]+" varchar(32));";
34         db.execSQL(sql);
35         String tmp=db.getPath()+"\n"+db.getMaximumSize()+"\n"+db.getPageSize();
36         rr.setText(tmp);
37         disp_data();
38     }

```

```

37 public void disp_data(){
38     String sql = "select * from " + db_table;
39     cur = db.rawQuery(sql, selectionArgs: null);
40     int cnt = cur.getCount(), i=0; String t1="";
41     t1=getString(R.string.tot)+cur.getCount()+getString(R.string.data)+"\n";
42     t1+= cur.getColumnIndex( i: 0)+"\t\t\t"+cur.getColumnIndex( i: 1)+
43         "\t\t\t"+cur.getColumnIndex( i: 2)+"\n";
44     t1+="-----\n";
45     if(cur.moveToFirst()){
46         do{
47             t1+=cur.getString( i: 0)+"\t\t\t"+
48                 cur.getString( i: 1)+"\t\t\t"+
49                 cur.getString( i: 2)+"\n";
50             t1+="-----\n";
51         } while (cur.moveToNext());
52     }
53     else Toast.makeText( context: this, getString(R.string.err), Toast.LENGTH_SHORT).show();
54     rr.setText(t1);
55 }

```

```

57 public void add_data(String n, String p, String e){
58     ContentValues cv=new ContentValues( size: 3);
59     cv.put(field[0], n); cv.put(field[1], p); cv.put(field[2],e);
60     db.insert(db_table, nullColumnHack: null, cv); disp_data();
61     Toast.makeText( context: this,getString(R.string.succ),Toast.LENGTH_SHORT).show();
62 }

```

```

64 public void onClick(View view) {
65     if(view == b4){
66         String sql="create table if not exists "+db_table+
67             "("+field[0]+" varchar(16), "+field[1]+" varchar(16), "+field[2]+" varchar(32));";
68         db.execSQL(sql); disp_data();
69     }
70     if(view == b3){
71         String sql="drop table if exists "+db_table; db.execSQL(sql);
72     }
73     if(view == b2){ db.close(); finish(); }
74     if(view == b1){
75         String sn=na.getText().toString(),
76             sp=ph.getText().toString(),
77             se=em.getText().toString();
78         if(sn.length()>0 && sp.length()>0 && se.length()>0){
79             add_data(sn, sp, se);
80         }
81         else Toast.makeText( context: this,getString(R.string.err),Toast.LENGTH_SHORT).show();
82     }
83 }
84 }

```