

```

<?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">

    <EditText
        android:id="@+id/id"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="아이디 입력" />

    <EditText
        android:id="@+id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="이름 입력" />

    <EditText
        android:id="@+id/phone"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="전화번호 입력" />

    <EditText
        android:id="@+id/addr"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="주소 입력" />

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

        <Button
            android:id="@+id/btn1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:text="저장" />

        <Button
            android:id="@+id/btn2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:text="검색" />

        <Button
            android:id="@+id/btn3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:text="찾기" />

        <Button
            android:id="@+id/btn4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:enabled="false"
            android:text="수정" />

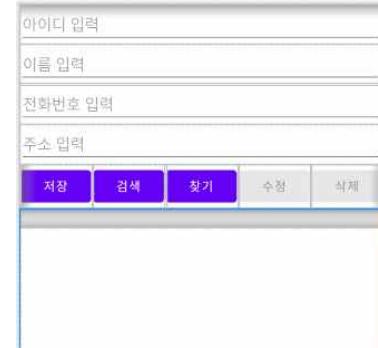
        <Button
            android:id="@+id/btn5"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:enabled="false"
            android:text="삭제" />
    </LinearLayout>

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical" >

            <TextView
                android:id="@+id/result"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:textSize="16sp"/>
        </LinearLayout>
    </ScrollView>
</LinearLayout>

```



```

public class MainActivity extends AppCompatActivity {
EditText id, name, phone, addr;
Button btn1, btn2, btn3, btn4, btn5;
TextView result;
SQLiteDatabase database ;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
id = findViewById(R.id.id);
name = findViewById(R.id.name);
phone = findViewById(R.id.phone);
addr = findViewById(R.id.addr);
btn1 = findViewById(R.id.btn1);
btn2 = findViewById(R.id.btn2);
btn3 = findViewById(R.id.btn3);
btn4 = findViewById(R.id.btn4);
btn5 = findViewById(R.id.btn5);
result = findViewById(R.id.result);
// 테이터베이스 생성
database = openOrCreateDatabase("mydb", MODE_PRIVATE, null);

// 테이블 생성(req는 날짜는text, 삽입할때, date('now'))
database.execSQL("create table if not exists members (" +
+ "id text unique," +
+ "name text , " +
+ "phone text , " +
+ "addr text," +
+ "reg text )");

// 저장
btn1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
try{
String id = id.getText().toString();
String name = name.getText().toString();
String phone = phone.getText().toString();
String addr = addr.getText().toString();
if(_id == null || id.length()==0){
Toast.makeText(MainActivity.this, "최소한id는 입력하세요",
Toast.LENGTH_SHORT).show();
return;
}
database.execSQL("insert into members values('" + id + "','" +
+ name + "','" +
+ phone+ "','" + addr + ', date('now'))");
// 검색
selectAll();
id.setText("");
name.setText("");
phone.setText("");
addr.setText("");
}catch (Exception e){
Toast.makeText(MainActivity.this, "중복된 아이디 입니다.",
Toast.LENGTH_SHORT).show();
}
}
});
btn2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
selectAll();
}
});
btn3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String _id = id.getText().toString();
Cursor cursor = database.rawQuery("select * from members where id =
'" + _id + "'", null);
if(!cursor.moveToFirst()){
Toast.makeText(MainActivity.this, "존재하지 않는id 입니다.",
Toast.LENGTH_SHORT).show();
id.setText("");
return;
}
else{
id.setEnabled(false);
name.setText(cursor.getString(1));
phone.setText(cursor.getString(2));
addr.setText(cursor.getString(3));
btn4.setEnabled(true);
btn5.setEnabled(true);
}
}
});
btn4.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String id = id.getText().toString();
String name = name.getText().toString();
String phone = phone.getText().toString();
String addr = addr.getText().toString();
database.execSQL("update members set name='"+ _name + "', phone='"+ +
+ phone +
+ "' , addr='"+ addr + "' where id = '" + id+"'");
id.setText("");
name.setText("");
phone.setText("");
addr.setText("");
btn4.setEnabled(false);
btn5.setEnabled(false);
selectAll();
}
});
}

```

```

btn5.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
String _id = id.getText().toString();
database.execSQL("delete from members where id = '" + _id + "'");
id.setText("");
name.setText("");
phone.setText("");
addr.setText("");
btn4.setEnabled(false);
btn5.setEnabled(false);
selectAll();
}
});

public void selectAll(){
result.setText("");
Cursor cursor = database.rawQuery("select * from members ", null);
while (cursor.moveToNext()){
result.append(cursor.getString(0)+"\t");
result.append(cursor.getString(1)+"\t");
result.append(cursor.getString(2)+"\t");
result.append(cursor.getString(3)+"\t");
result.append(cursor.getString(4)+"\n");
}
}
}

```

