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<?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/button1"
            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/button2"
            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/button3"
            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/button4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:enabled="false"
            android:text="수정" />

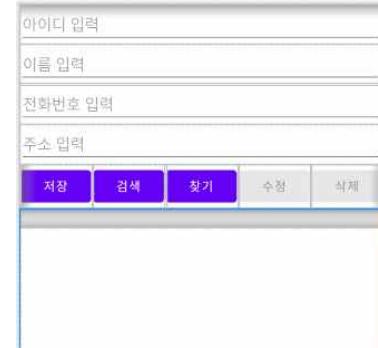
        <Button
            android:id="@+id/button5"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:layout_margin="1dp"
            android:enabled="false"
            android:text="삭제" />
    </LinearLayout>

    <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 button1, button2, button3, button4, button5;
TextView result;
MyDB myDB = new MyDB(MainActivity.this, "mydb04.db", null, 1);
SQLiteDatabase database;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
button1 = findViewById(R.id.button1);
button2 = findViewById(R.id.button2);
button3 = findViewById(R.id.button3);

// 저장
button1.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
// myDB = new MyDB(MainActivity.this, "mydb04.db", null, 1);
// database = myDB.getWritableDatabase();
if(id.getText().length() > 0 & name.getText().length() > 0 &
phone.getText().length() > 0 & addr.getText().length() > 0) {
SQLiteDatabase database = myDB.getWritableDatabase();
String sql = "insert into p_list values(null, ?, ?, ?, ?)";
String[] arr = {id.getText().toString(), name.getText().toString(),
phone.getText().toString(), addr.getText().toString()};
database.execSQL(sql, arr);
myDB.close();

id.setText("");
name.setText("");
phone.setText("");
addr.setText("");

// 전체 보기
selectAll();
} else {
Toast.makeText(MainActivity.this,
"모든 정보를 입력해야만 삽입이 가능합니다.",
Toast.LENGTH_SHORT).show();
}
}
});

// 검색
button2.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
// myDB = new MyDB(MainActivity.this, "mydb04.db", null, 1);
// database = myDB.getWritableDatabase();
selectAll();
}
});
button3.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
SQLiteDatabase database = myDB.getWritableDatabase();
String sql = "select * from p_list where id = ?";
String[] arr = {id.getText().toString()};
Cursor cursor = database.rawQuery(sql, arr);
if(cursor.getCount() == 0){
id.setText("");
Toast.makeText(MainActivity.this,
"찾는 정보가 없습니다.", Toast.LENGTH_SHORT).show();
} else {
button4.setEnabled(true);
button5.setEnabled(true);

while (cursor.moveToNext()) {
name.setText(cursor.getString(2));
phone.setText(cursor.getString(3));
addr.setText(cursor.getString(4));
}
cursor.close();
myDB.close();
}
}
});

button4.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
SQLiteDatabase database = myDB.getWritableDatabase();
String sql = "update p_list set name=?, phone=?, addr=? where id = ? ";
String[] arr = {name.getText().toString(), phone.getText().toString(),
addr.getText().toString(), id.getText().toString()};
database.execSQL(sql, arr);
myDB.close();
id.setText("");
name.setText("");
phone.setText("");
addr.setText("");

selectAll();
button4.setEnabled(false);
button5.setEnabled(false);
}
});
}

```

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button5.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
SQLiteDatabase database = myDB.getWritableDatabase();
String sql = "delete from p_list where id = ? ";
String[] arr = {id.getText().toString()};
database.execSQL(sql, arr);
myDB.close();

id.setText("");
name.setText("");
phone.setText("");
addr.setText("");

selectAll();
button4.setEnabled(false);
button5.setEnabled(false);
}
});
public void selectAll(){
SQLiteDatabase database = myDB.getWritableDatabase();
String sql = "select * from p_list order by idx ";
Cursor cursor = database.rawQuery(sql, null);
StringBuffer sb = new StringBuffer();
while(cursor.moveToFirst()){
String idx = cursor.getString(0);
String id = cursor.getString(1);
String name = cursor.getString(2);
String phone = cursor.getString(3);
String addr = cursor.getString(4);
sb.append(idx+", "+id+", "+name+", "+phone+", "+addr+"\n");
}
result.setText(sb.toString());
cursor.close();
myDB.close();
}
}

```



```

public class MyDB extends SQLiteOpenHelper {

public MyDB(@Nullable Context context, @Nullable String name, @Nullable
SQLiteDatabase.CursorFactory factory, int version) {
super(context, name, factory, version);
}

@Override
public void onCreate(SQLiteDatabase db) {
// Log.d("my", "onCreate()");
String sql = " create table if not exists p_list ( "+
" idx Integer primary key autoincrement, "+
" id text unique, name text, phone text, addr text ) ";
db.execSQL(sql);
}

@Override
public void onOpen(SQLiteDatabase db) {
super.onOpen(db);
// Log.d("my", "onOpen()");
}

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
// Log.d("my", "onUpgrade()");
}
}

```