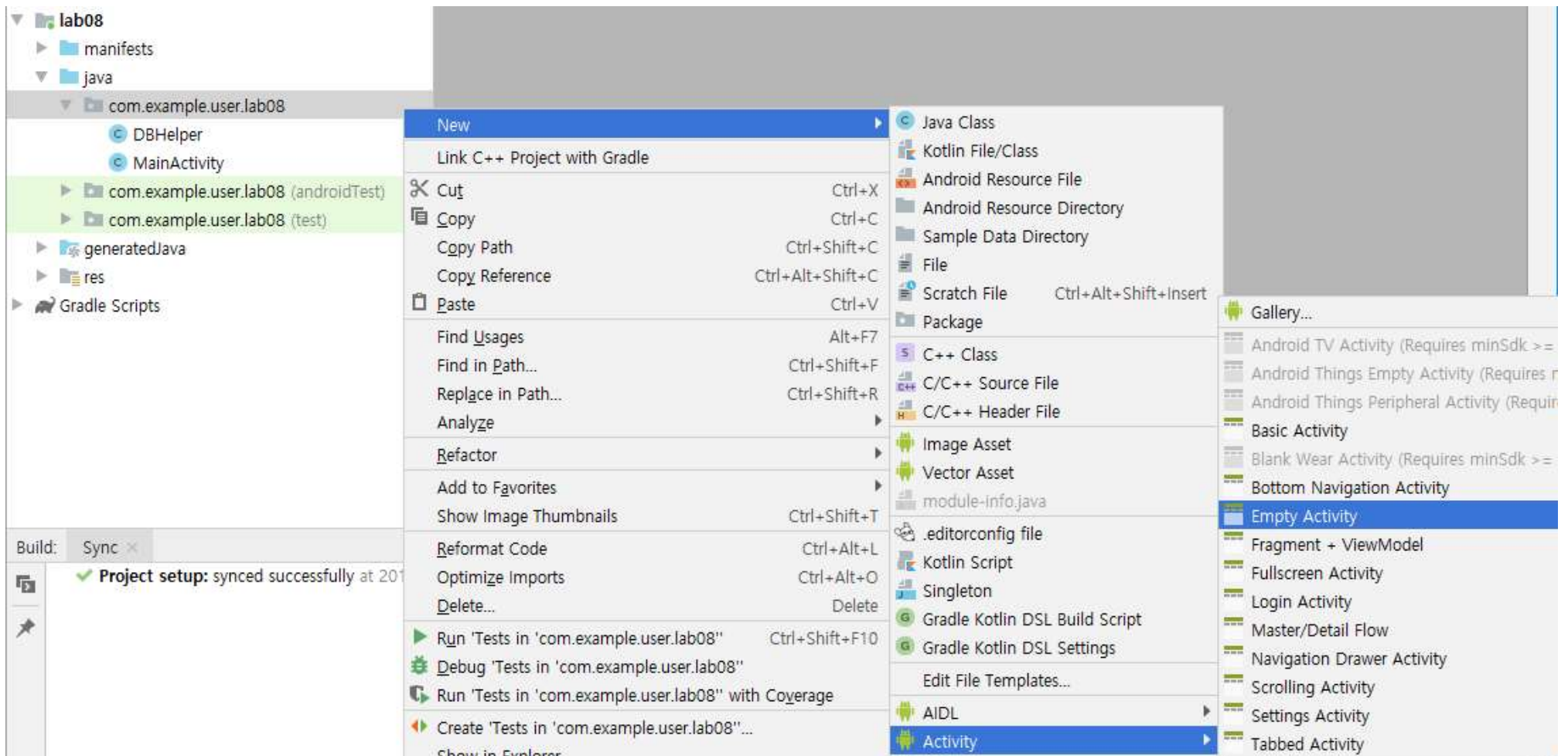



커스텀 Adapter


하나의 view 이 여러 개의
view를 달 경우 사용

Step 1 _ 액티비티 생성




New Android Activity

 **Configure Activity**
Android Studio



Creates a new empty activity



Activity Name:

Lab08_2Activity

☒ Generate Layout File

Layout Name:

activity_lab08_2

☒ Launcher Activity

Package name:

com.example.user.lab08

Source Language:

Java

If true, this activity will have a CATEGORY_LAUNCHER intent filter, making it visible in the launcher

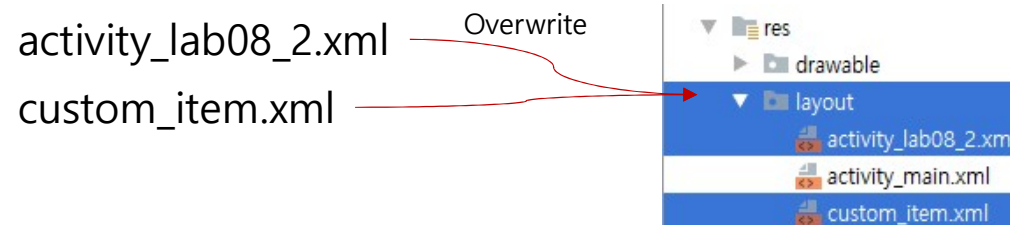
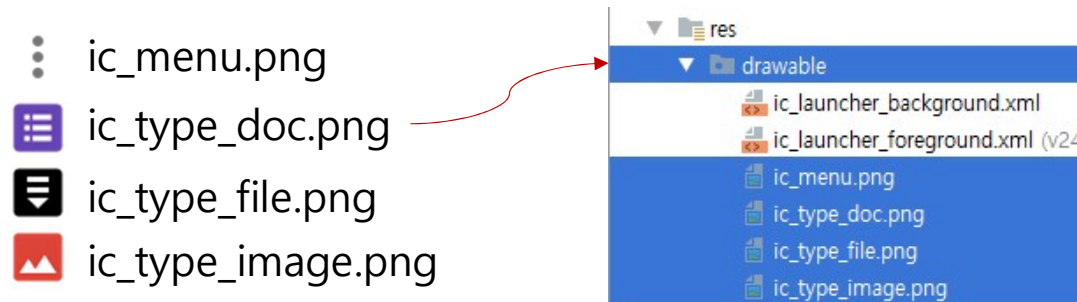
Previous

Next

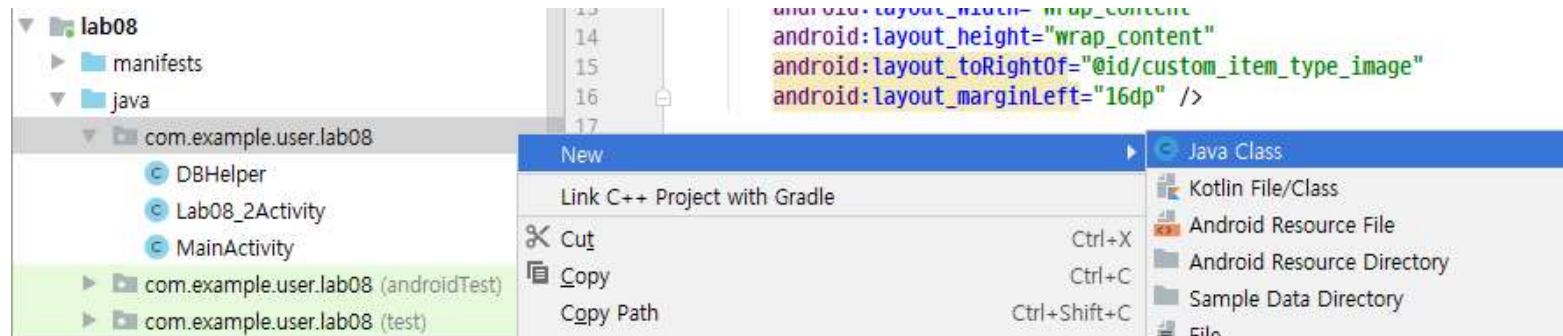
Cancel

Finish

Step 2 _ 파일 복사



Step 3 _ DriveVO 클래스 작성



Create New Class

Name:

Kind: ☒ Class

Superclass:

Interface(s):

Package:

Visibility: ☒ Public ☐ Package Private

Modifiers: ☒ None ☐ Abstract ☐ Final

☐ Show Select Overrides Dialog

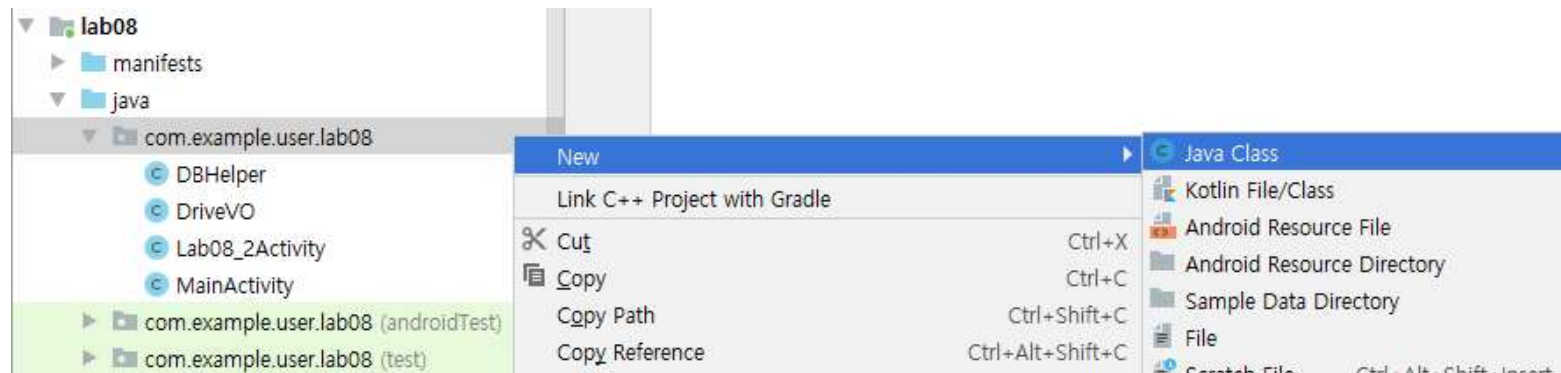
OK Cancel Help


클래스의 객체 하나가 하나의 항목 데이터를 표현

```
public class DriveV0 {  
    public String type;  
    public String title;  
    public String date;  
}
```

type마다
Icon이 다름

Step 4 _ DriveHolder 클래스 작성




 Create New Class ✕

Name:

DriveHolder

Kind:

 Class

▼

Superclass:

Interface(s):

Package:

com.example.user.lab08

Visibility:

☒ Public

☐ Package Private

Modifiers:

☒ None

☐ Abstract

☐ Final

☐ Show Select Overrides Dialog

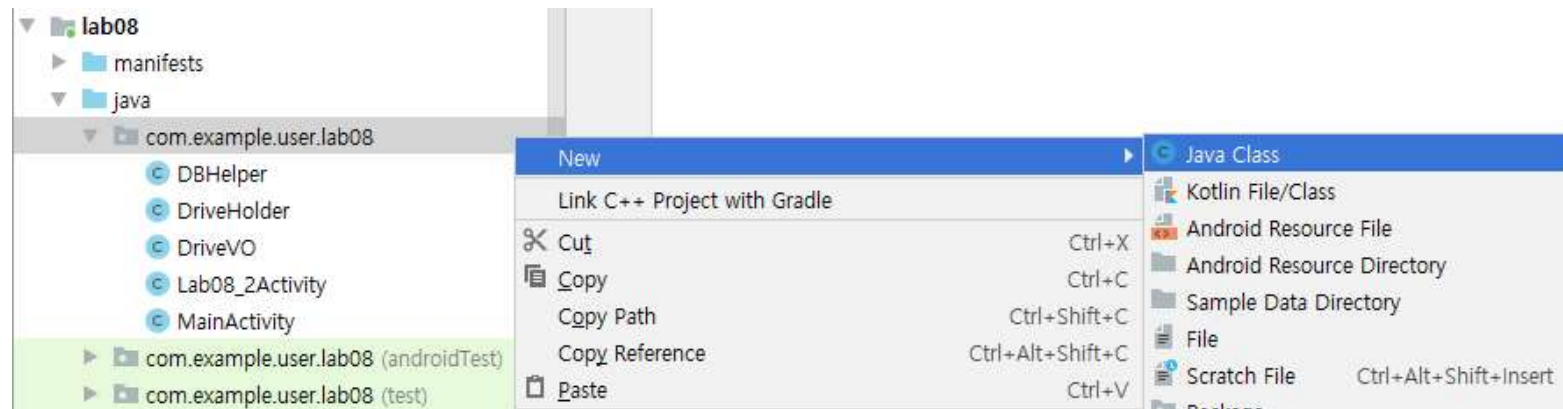
OK

Cancel

Help

```
public class DriveHolder {  
    public ImageView typeImageView;  
    public TextView titleView;  
    public TextView dateView;  
    public ImageView menuImageView;  
  
    public DriveHolder(View root) {  
        typeImageView = root.findViewById(R.id.custom_item_type_image);  
        titleView = root.findViewById(R.id.custom_item_title);  
        dateView = root.findViewById(R.id.custom_item_date);  
        menuImageView = root.findViewById(R.id.custom_item_menu);  
    }  
}
```

Step 5 _ DriveAdapter 클래스 작성



Create New Class

Name: DriveAdapter

Kind: Class 상속

Superclass: android.widget.AdapterView ✓

Interface(s):

Package: com.example.user.lab08

Visibility: ☒ Public ☐ Package Private

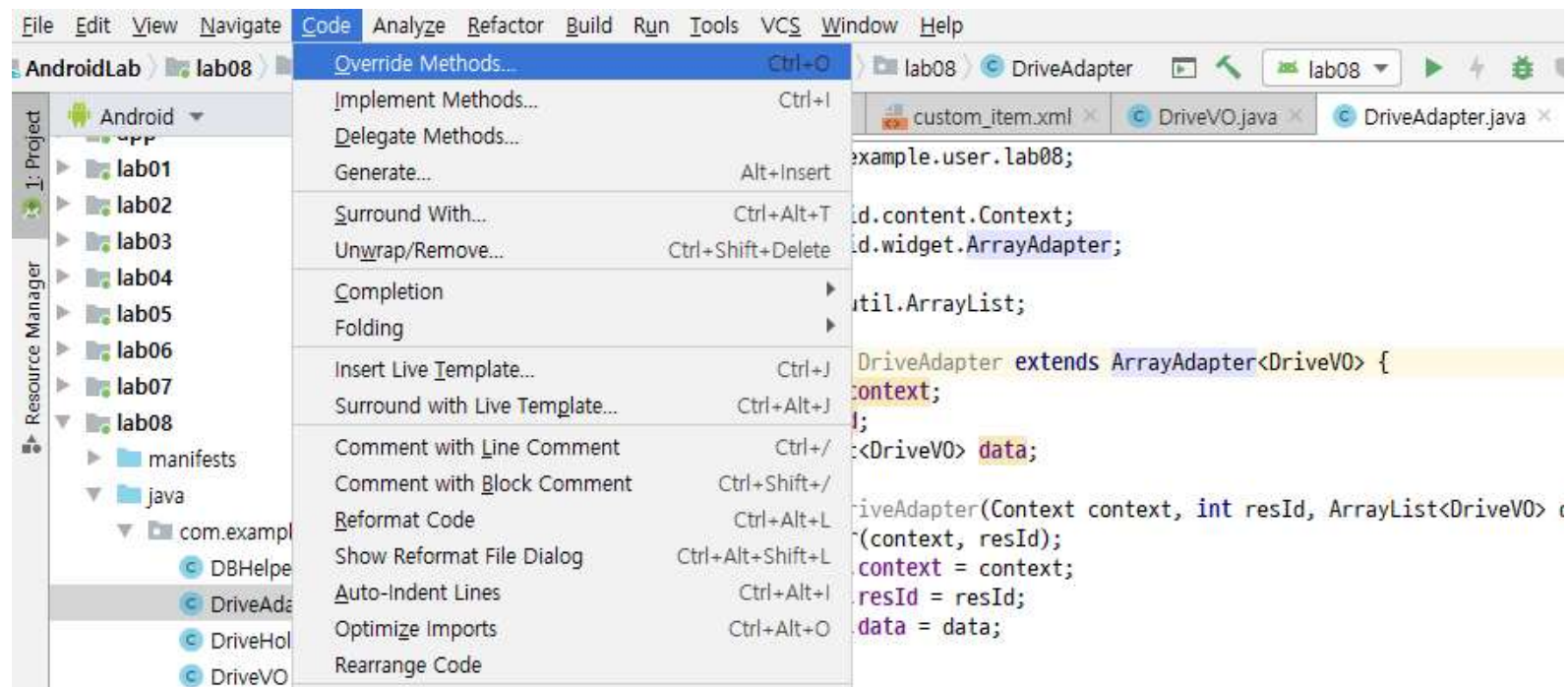
Modifiers: ☒ None ☐ Abstract ☐ Final

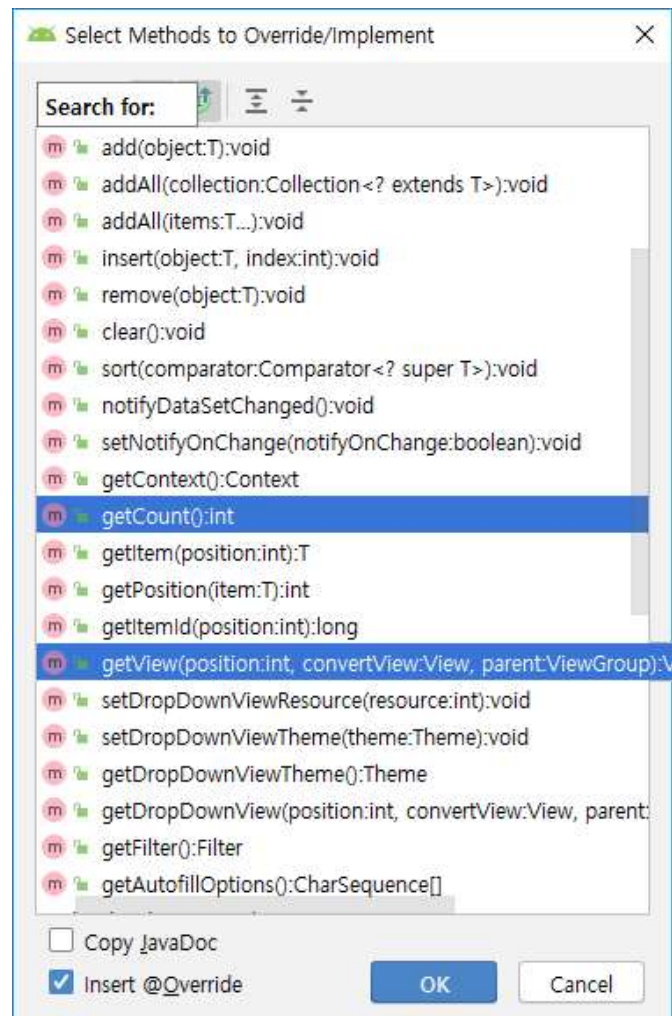
☐ Show Select Overrides Dialog

OK Cancel Help

android.widget.Adapter 구현해야 함

```
public class DriveAdapter extends ArrayAdapter<DriveV0> {  
    Context context;  
    int resId;  
    ArrayList<DriveV0> data;  
  
    public DriveAdapter(Context context, int resId, ArrayList<DriveV0> data) {  
        super(context, resId);  
        this.context = context;  
        this.resId = resId;  
        this.data = data;  
    }  
}
```





전체 항목의 개수를 판단하기 위해 호출됨

```
@Override  
public int getCount() {  
    return data.size();  
}
```


n행에 표시할 view

재사용

The old view to reuse, if possible.

```
@Override
public View getView(int position, View convertView, ViewGroup parent) {
    if (convertView == null) {
        LayoutInflater inflater = (LayoutInflater)context.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        convertView = inflater.inflate(resId, null);
        DriveHolder holder = new DriveHolder(convertView);
        convertView.setTag(holder);
    }
```

an extra piece of information that can be associated with a view
<https://developer.android.com/reference/android/view/View.html#tags>

```
public void setTag (Object tag)
```

```
public Object getTag ()
```

```
DriveHolder holder = (DriveHolder)convertView.getTag();
```

```
ImageView typeImageView = holder.typeImageView;
TextView titleView = holder.titleView;
TextView dateView = holder.dateView;
ImageView menuImageView = holder.menuImageView;
```

```
final DriveVO vo = data.get(position);
```

```
titleView.setText(vo.title);
dateView.setText(vo.date);
```

```
if (vo.type.equals("doc")) {
    typeImageView.setImageDrawable(ResourcesCompat.getDrawable(context.getResources(), R.drawable.ic_type_doc, null));
} else if (vo.type.equals("file")) {
    typeImageView.setImageDrawable(ResourcesCompat.getDrawable(context.getResources(), R.drawable.ic_type_file, null));
} else if (vo.type.equals("img")) {
    typeImageView.setImageDrawable(ResourcesCompat.getDrawable(context.getResources(), R.drawable.ic_type_image, null));
}
```

Image 불러

```
menuImageView.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast toast = Toast.makeText(context, vo.title+" menu click", Toast.LENGTH_SHORT);
        toast.show();
    }
});
```

Listener

```
return convertView;
```

```
}
```

getDrawable

added in version 24.1.0

```
Drawable getDrawable (Resources res,  
                      int id,  
                      Resources.Theme theme)
```

Return a drawable object associated with a particular resource ID and styled for the specified theme. Various types of objects will be returned depending on the underlying resource -- for example, a solid color, PNG image, scalable image, etc.

Prior to API level 21, the theme will not be applied and this method simply calls through to `getDrawable(int)`.

Parameters	
res	Resources
id	int: The desired resource identifier, as generated by the aapt tool. This integer encodes the package, type, and resource entry. The value 0 is an invalid identifier.
theme	Resources.Theme: The theme used to style the drawable attributes, may be null.
Returns	
Drawable	Drawable An object that can be used to draw this resource.
Throws	
Resources. NotFoundException	Throws NotFoundException if the given ID does not exist.

<https://developer.android.com/reference/android/support/v4/content/res/ResourcesCompat.html#getdrawable>

Step 6 _ Lab08_2Activity 작성

```
public class Lab08_2Activity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_lab08_2);

        ListView listView = findViewById(R.id.custom_listview);

        DBHelper helper = new DBHelper(this);
        SQLiteDatabase db = helper.getWritableDatabase();
        Cursor cursor = db.rawQuery("select * from tb_drive", null);

        ArrayList<DriveVO> data = new ArrayList<>();
        while (cursor.moveToNext()) {
            DriveVO vo = new DriveVO();
            vo.type = cursor.getString(3);
            vo.title = cursor.getString(1);
            vo.date = cursor.getString(2);
            data.add(vo);
        }
        db.close();

        DriveAdapter adapter = new DriveAdapter(this, R.layout.custom_item, data);
        listView.setAdapter(adapter);
    }
}
```

Step 7 _ Lab08_2Activity.java 실행

