27th December 2009   Creating JasperReport with subreports using datasource

In my previous post [http://junaedhalim.blogspot.com/2009/12/create-jasper-report-using-datasource.html] , I explained how to use datasources to create jasper reports. As I promised, now I am going to explain how to use subreports with datasources.

The concept is very similar. All we have to do is pass the appropriate datasource(s) to the subreport(s).

For example, say we have the following reports in hand:
1. MasterReport.jrxml
2. SubReport1.jrxml
3. SubReport2.jrxml
Both the subreports are contained in the master report.

Now prepare the datasources for these reports (as list, as I mentioned in my previous post):
1. masterReportDataList
2. subReport1DataList
3. subReport2DataList
Construct 3 TestDataSource [http://junaedhalim.blogspot.com/2009/12/create-jasper-report-using-datasource.html] (extends JRDataSource) type objects using these 3 lists. Say these are:
1. masterReportDS
2. subReport1DS
3. subReport2DS
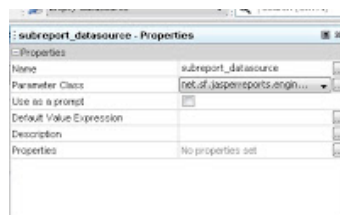Now we have to pass these datasources to the appropriate reports.

I am going to pass the subreport datasources as parameters to the main report, while passing the master report datasource as usual - using the following call:

```
JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReportPath, parameters, masterReportDS);
```

In the parameter HashMap, we are going to put our subReport DataSources and any other parameters needed by the report.

```
Map parameters = new HashMap();
parameters.put('subreport_datasource',subReport1DS);
parameters.put('subreport_datasource_2',subReport2DS);
```

Now open the master report using iReport [http://jasperforge.org/projects/ireport] . Add two parameters to the main report named **subreport_datasource** and **subreport_datasource_2.** Set the data type of these two parameters as **net.sf.jasperreports.engine.JRDataSource.**

[http://4.bp.blogspot.com/_ysJv7nepi6o/SzcjMZt9DAI/AAAAAAAABnA/8QhPNtVxZQk/s1600-h/03.jpg]
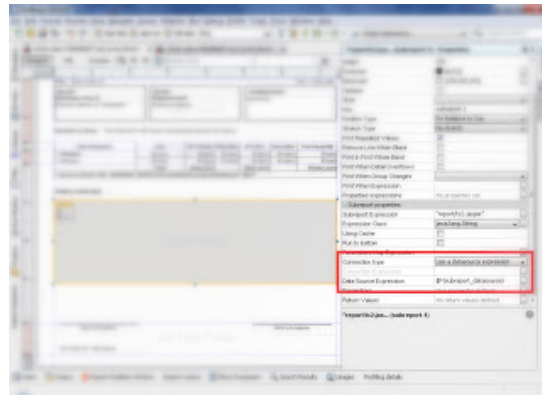Open the properties window of subreport1. Set the following:
Connection type: Use a datasource expression
Data Source Expression: $P{subreport_datasource}

Do the same for the other subreport:
Connection type: Use a datasource expression
Data Source Expression: $P{subreport_datasource_2}

[http://1.bp.blogspot.com/_ysJv7nepi6o/SzcfGEgj0_I/AAAAAAAABm4/RbmiY6idZak/s1600-h/02.jpg]

If you are not using iReport, then open the masterReport.jrxml in any text editor. Go to the subreport section (look for **<subreport>**). Remove **<connectionexpression>** tag (if any). Add the following:

That's all. Now you can create reports containing subreports using DataSources. You can even have one subreport inside another.

There is a beautiful article I found earlier on this topic. You can find that here [http://www.jasperassistant.com/forum/topic/823/simple_subreport_example_using_sever al?p3] .

Thanks for visiting. Good bye.

Posted 27th December 2009 by Junaed Bin Halim

Labels: datasource, jasper, jasperreport, java, jrdatasource, report, subreport