

 무료 전자 책

배우기

jasper-reports

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#jasper-  
reports



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# 1: jasper-reports

[Java](#) [JasperReports](#) [Java API](#) .

- [DynamicReports](#)
- 

/ (jrxml) "" .

## *JasperReports*

6.3.0	2016-06-20
6.2.0	2015-11-11
5.6.0	2014-05-27
5.5.0	2013-10-24
5.0.4	2013-03-26
5.0.0	2012-11-12
4.8.0	2012-11-05
4.7.0	2012-07-02
4.6.0	2012-05-21
4.5.0	2011-12-06
4.1.1	2011 4 18
4.0.0	2010-12-31
3.7.6	2010-10-27
3.7.5	2010-09-22
3.7.0	2009-12-08
3.6.0	2009-08-31
3.5.3	2009-07-29
3.5.0	2009-03-25
3.1.4	2009-02-10

3.1.2	2008-11-04
3.1.0	2008-09-17
3.0.1	2008-08-07
3.0.0	2008-05-19
2.0.5	2008-03-12
2.0.3	2007-12-12
2.0.0	2007-08-14
1.3.4	2007-06-11
1.3.0	2006-12-22
1.2.8	2006-11-14
1.2.0	2006-02-06
1.1.0	2005-10-21
1.0.3	2005-10-10
1.0.0	2005-07-20
0.6.8	2005-05-31
0.2.3	2002-02-06

## IDE

*Eclipse* : [Jaspersoft Studio](#) .

*NetBeans* : [iReport Designer](#) .

*iReport Designer* - [iReport Classic](#)

## Examples

# JasperReports

[JasperReports](#) Java . [JasperReports Library](#) [Jaspersoft Community](#) .

lib jar . pom.xml . Maven target / dependence transient .

---

# Jaspersoft Studio (IDE)

[Jaspersoft Studio](#) [iReport Designer](#) [Eclipse](#) [JasperReports](#) .

---

# iReport (IDE)

[iReport Designer](#) [JasperReports](#) . 5.6.0 (2014 5 ) . 2015 .

---

# JasperReport Community

## JasperReports FAQs

- 
- [JasperReports](#)
- 
- [JasperReports](#)
- 
- 
- 
- 

1. jrxml . jrxml IDE (JasperSoft Studio iReport) .
2. (jrxml) .jasper [JasperReport](#) . .java .class .
3. , [JasperPrint](#) .jprint
4. JasperPrint, / . pdf, excel, word, html, cvs .

---

. isTitleNewPage="true" .

---

isSummaryWithPageHeaderAndFooter="false" .

---



.

. (detail 1, detail 2 .. detail n) ,

```

Row 1
  detail 1
  detail 2
  detail n
Row 2
  detail 1
  detail 2
  detail n

```

. ( ), isFloatColumnFooter="true" ( ).

, ( ) .

isSummaryNewPage="true" isSummaryWithPageHeaderAndFooter="true" .

, .

, .

(0) whenNoDataType="NoDataSection" .

## Jasper

- .jrxml XML JasperReport .jasper .
- .jasper .jrxml JasperReport
- .jrprint JasperPrint , / .
- .jrpxml a XML rappresentativo JasperPrint JasperPrint

jasper-reports : <https://riptutorial.com/ko/jasper-reports/topic/3594/jasper-reports->

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## 2: JasperReports .jrxml .jasper .

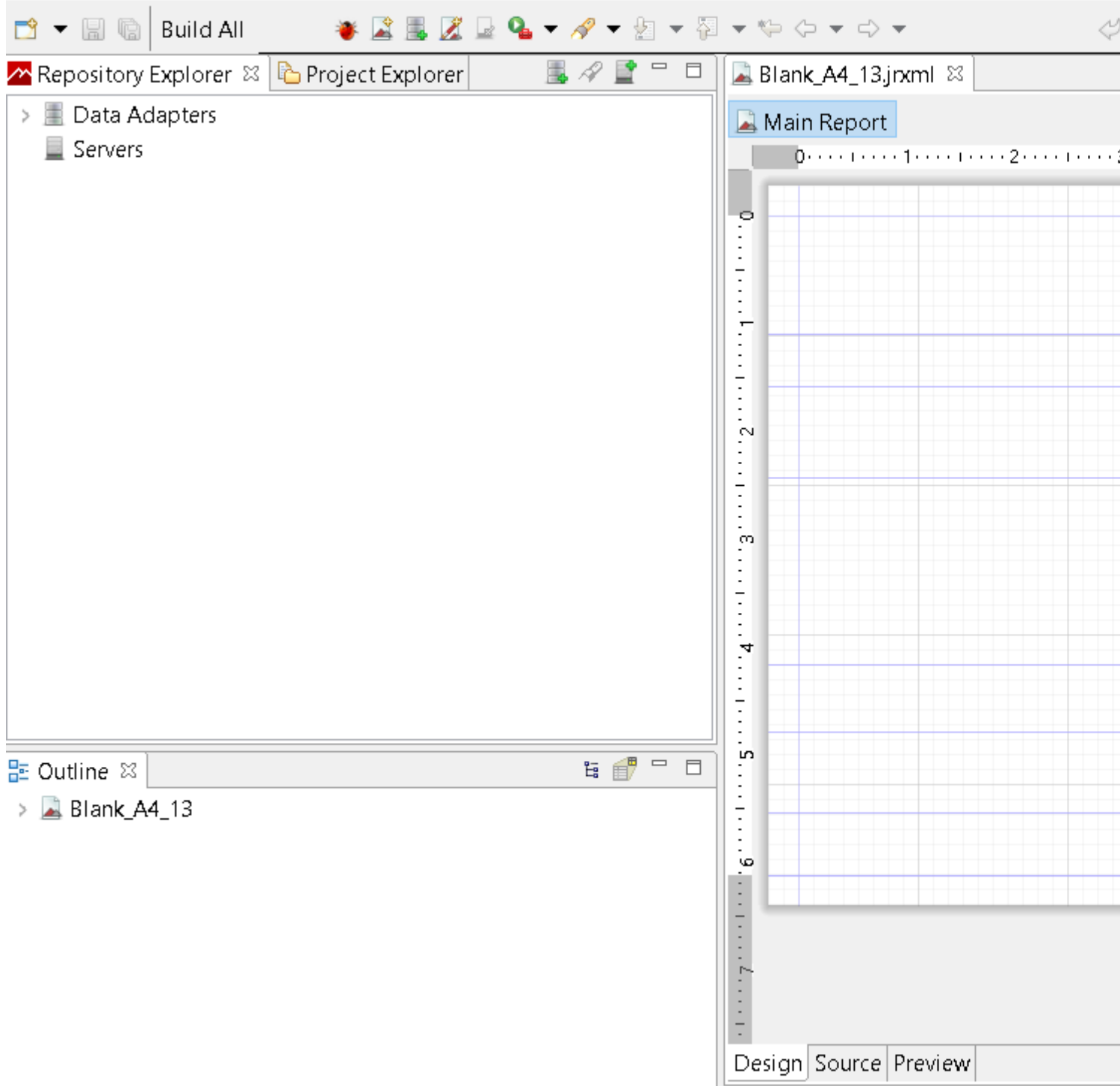
### Examples

IDE ( )

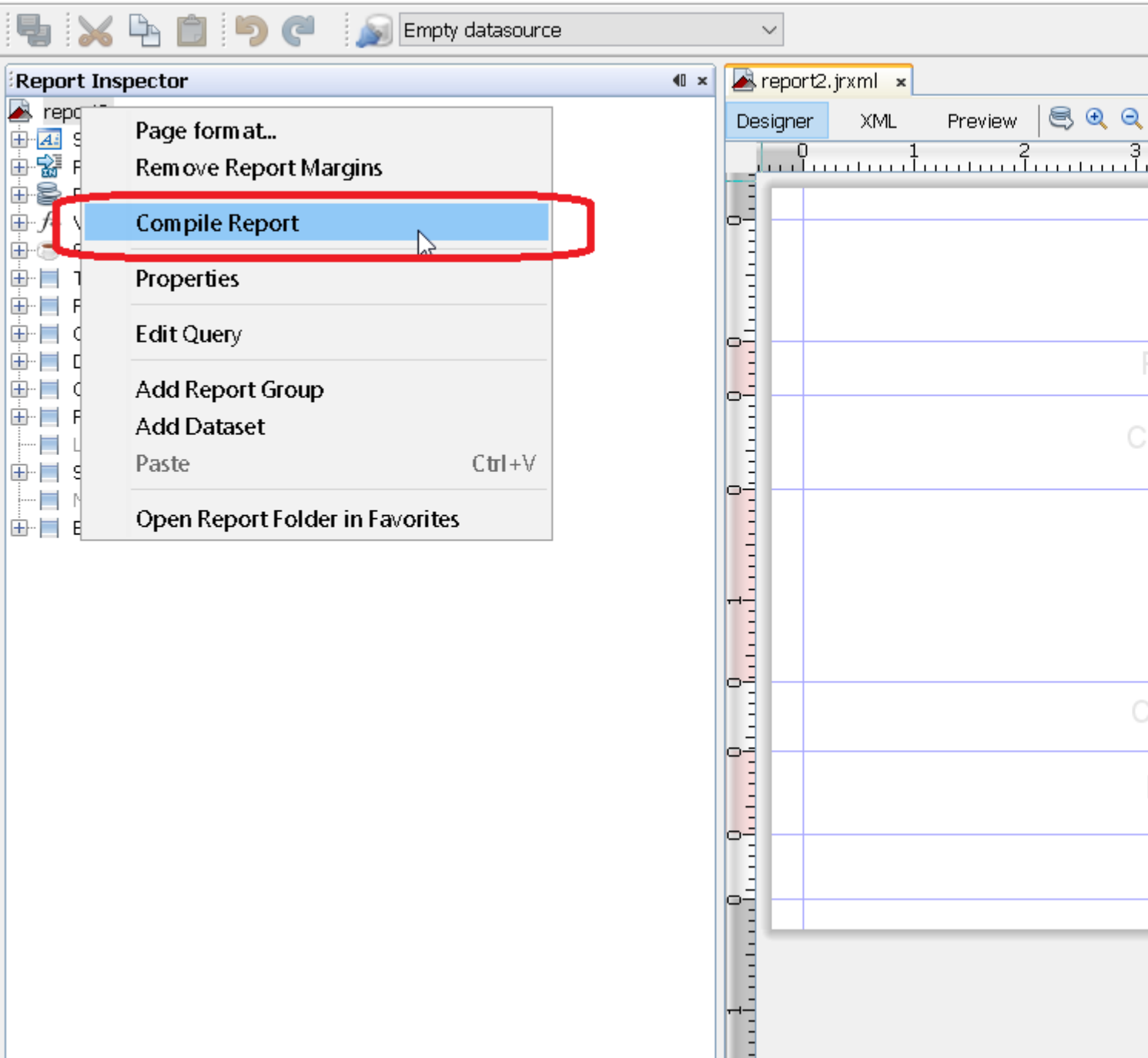
IDE [Jaspersoft Studio \(JSS\)](#) [iReport Designer](#) .

JasperReports `.jrxml` `.jasper` `.jrxml` .

JSS " " .



*iReport* " "



## Apache Ant

```
<target name="compile" description="Compiles report designs specified using the 'srcdir' in
the <jrc> tag." depends="prepare-compile-classpath">
  <mkdir dir="./build/reports"/>
  <taskdef name="jrc" classname="net.sf.jasperreports.ant.JRAntCompileTask">
    <classpath refid="project-classpath"/>
  </taskdef>
  <jrc
    srcdir="./reports"
    destdir="./build/reports"
    tempdir="./build/reports"
    keepjava="true"
  </jrc>
</target>
```

```

        xmlvalidation="true">
        <classpath refid="sample-classpath"/>
        <include name="**/*.jrxml"/>
    </jrc>
</target>

```

Apache Ant .

## Java

.jasper Java .jrxml IDE .jrxml .jrxml . JasperCompileManager .jrxml .

```

JasperCompileManager.compileReportToFile(
    "designFile.jrxml", //Relative or absolute path to the .jrxml file to compile
    "compiled.jasper"); //Relative or absolute path to the compiled file .jasper

```

## Apache Maven

Alex Nederlof [JasperReports-plugin](#) org.codehaus.mojo : jasperreports-maven-plugin plugin .

```

<build>
  <plugins>
    <plugin>
      <groupId>com.alexnaderlof</groupId>
      <artifactId>jasperreports-plugin</artifactId>
      <version>2.3</version>
      <executions>
        <execution>
          <phase>process-sources</phase>
          <goals>
            <goal>jasper</goal>
          </goals>
        </execution>
      </executions>
      <configuration>
        <sourceDirectory>src/main/resources/jrxml</sourceDirectory>
        <outputDirectory>${project.build.directory}/jasper</outputDirectory>
      </configuration>
    </plugin>
  </plugins>
</build>

```

Maven :

*mvn jasperreports : jasper*

*jasper* \$ {project.build.directory} / jasper (: / target / jasper) .

JasperReports .jrxml .jasper . : <https://riptutorial.com/ko/jasper-reports/topic/4943/jasperreports--jrxml--jasper-->

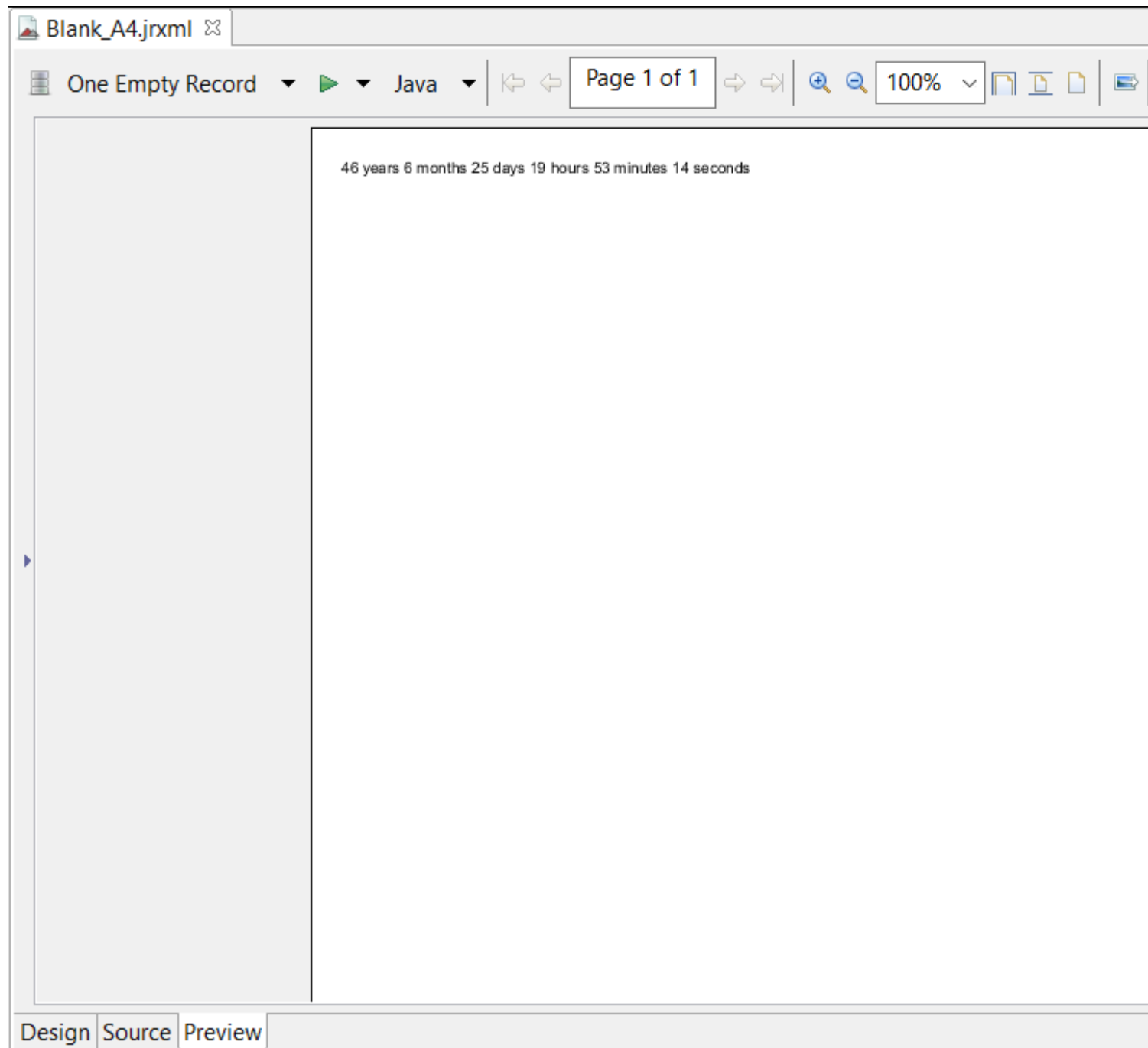
# 3: pdf

pdf (classpath)

## Examples

IDE ( )

. ( ) "PDF " .



Java

## JasperPrint ( jrxml)

```
// 1. Create exporter instance
JRPdfExporter exporter = new JRPdfExporter();

// 2. Set exporter input document
exporter.setExporterInput(new SimpleExporterInput(jasperPrint));

// 3. Set file path for exporter output
exporter.setExporterOutput(new SimpleOutputStreamExporterOutput("/path/filename.pdf"));

// 4. Create configuration instance
SimplePdfExporterConfiguration configuration = new SimplePdfExporterConfiguration();

// 5. Associate configuration with exporter
exporter.setConfiguration(configuration);

// 6. Fill export and write to file path
exporter.exportReport();
```

## JasperPrint ( jrxml)

```
List<JasperPrint> jasperPrintList = new ArrayList<>();
jasperPrintList.add(jasperPrint1);
jasperPrintList.add(jasperPrint2);

JRPdfExporter exporter = new JRPdfExporter();
exporter.setExporterInput(SimpleExporterInput.getInstance(jasperPrintList));
```

```
exporter.setExporterOutput(new SimpleOutputStreamExporterOutput("/path/filename.pdf"));
SimplePdfExporterConfiguration configuration = new SimplePdfExporterConfiguration();
exporter.setConfiguration(configuration);
exporter.exportReport();
```

### SimplePdfExporterConfiguration API

pdf : <https://riptutorial.com/ko/jasper-reports/topic/4190/pdf->



## 4: xls / xlsx

### Examples

#### Java

##### xlsx

```
try (InputStream inputStream = JLoader.getResourceInputStream(path)) { // read report as
input stream
    JasperReport jasperReport =
JasperCompileManager.compileReport(JRXmlLoader.load(inputStream)); // compile report

    Map<String, Object> params = new HashMap<>(); // init map with report's parameters
    params.put(JRParameter.REPORT_LOCALE, Locale.US);
    params.put(JRParameter.IS_IGNORE_PAGINATION, true);
    JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, params, connection);
// prepare report - passs parameters and jdbc connection

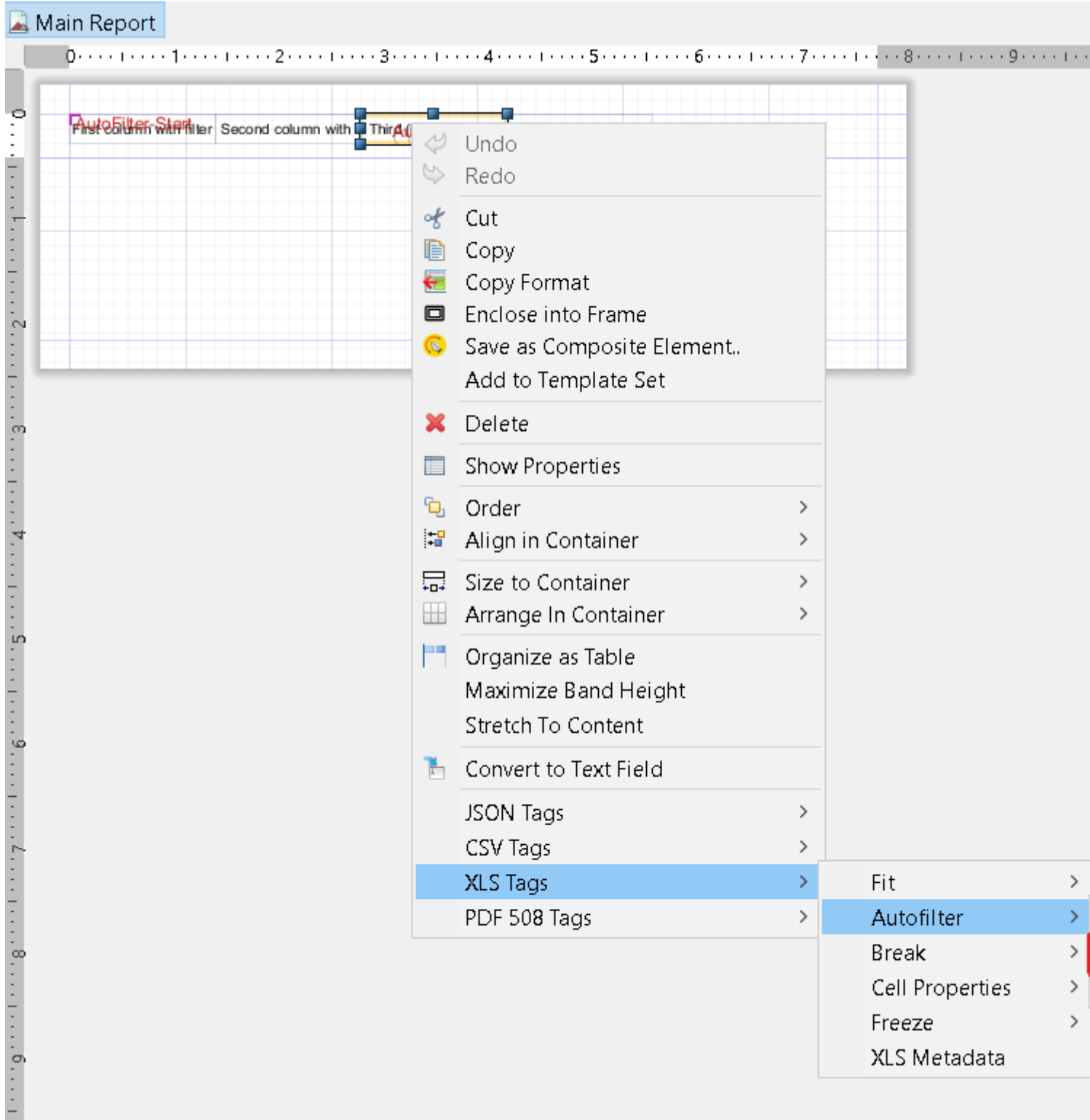
    JRXlsxExporter exporter = new JRXlsxExporter(); // initialize exporter
    exporter.setExporterInput(new SimpleExporterInput(jasperPrint)); // set compiled report as
input
    exporter.setExporterOutput(new SimpleOutputStreamExporterOutput(destFile)); // set output
file via path with filename
    SimpleXlsxReportConfiguration configuration = new SimpleXlsxReportConfiguration();
    configuration.setOnePagePerSheet(true); // setup configuration
    configuration.setDetectCellType(true);
    exporter.setConfiguration(configuration); // set configuration
    exporter.exportReport();
}
```

[net.sf.jasperreports.export.xls.auto.filter](#) xls .

```
<columnHeader>
  <band height="30" splitType="Stretch">
    <staticText>
      <reportElement x="0" y="0" width="100" height="20">
        <property name="net.sf.jasperreports.export.xls.auto.filter" value="Start"/>
      </reportElement>
      <text><![CDATA[First column with filter]]></text>
    </staticText>
    <staticText>
      <reportElement x="100" y="0" width="100" height="20"/>
      <text><![CDATA[Second column with filter]]></text>
    </staticText>
    <staticText>
      <reportElement x="200" y="0" width="100" height="20">
        <property name="net.sf.jasperreports.export.xls.auto.filter" value="End"/>
      </reportElement>
      <text><![CDATA[Third (Last) column with filter]]></text>
    </staticText>
    <staticText>
      <reportElement x="300" y="0" width="100" height="20"/>
      <text><![CDATA[Fourth column without filter]]></text>
    </staticText>
```

```
</band>
</columnHeader>
```

## Jaspersoft Studio jrxml



[xls / xlsx](https://riptutorial.com/ko/jasper-reports/topic/5008/xls---xlsx) : <https://riptutorial.com/ko/jasper-reports/topic/5008/xls---xlsx>

---

# 5:

## Examples

IDE . [iReport](#) [Jaspersoft Studio](#) . . .

---

# ?

textElement ( SansSerif ).

```
<textElement>
  <font fontName="DejaVu Sans"/>
</textElement>
```

( , ), **JVM ( MACCHINE )** . JVM .

JasperReport :

. . .

---

JasperReports (maven jasperreports-fonts.jar). classpath font-extension fontName .

DejaVu Sans Mono

---

pdf (itext) :

- PDF ( , ) .
- .tff .tff ( [OpenType](#) ) ? UTF-8 .
- iText ? ( ) Identity-H PDF .
- PDF ? [14](#) [1](#) .

iText ( ).tff [PDF](#) ? .

: <https://riptutorial.com/ko/jasper-reports/topic/5773/>-

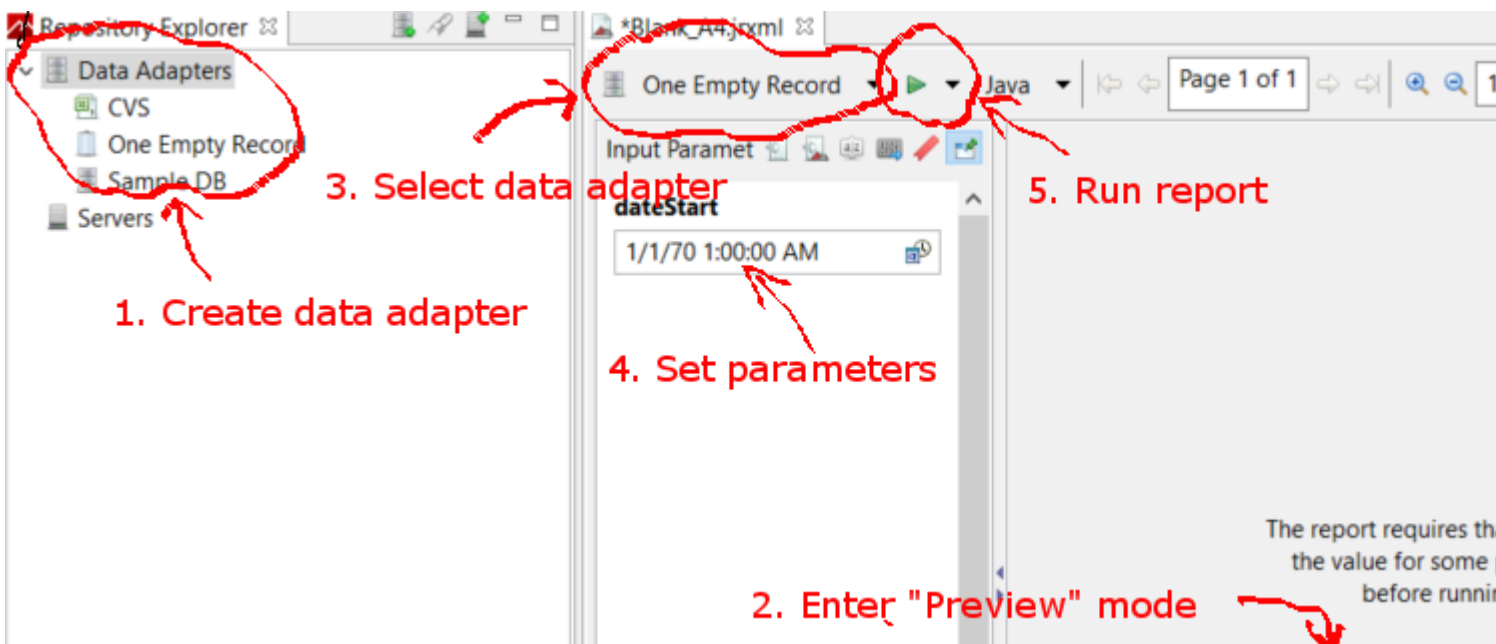
# 6:

reportTemplate	.jasper
	Map \$P{key} .
	net.sf.jasperreports.engine.JRDataSource
	java.sql.Connection

## Examples

IDE ( )

1. " " " " .
2. .
3. ( " " "
4. .
5. " " .



## JasperReport

```

// Parameters passed into the report.
Map<String, Object> parameters = new HashMap<>();

// Arbitrary parameter passed into the report.
parameters.put("KEY", "Value");

// The compiled report design.
String path = "path/to/template.jasper";

```

```

.jrxml . .jrxml (: ). .jasper .

```

```

// Establish a database connection.
Connection connection = DriverManager.getConnection(url, username, password);

// Fill the report, get the JasperPrint that can be exported to desired format.
JasperPrint jasperPrint = JasperFillManager.fillReport(
    path, parameters, connection);

```

```

// Populate this list of beans as per your requirements.
List<Bean> beans = new ArrayList<>();

// Wrap the beans in a beans in a JRBeanCollectionDataSource.
JRBeanCollectionDataSource datasource = new JRBeanCollectionDataSource(beans);

// Fill the report, get the JasperPrint that can be exported to desired format.
JasperPrint jasperPrint = JasperFillManager.fillReport(
    path, parameters, datasource);

```

## Detail Band

```

// Fill the report, get the JasperPrint that can be exported to desired format.
JasperPrint jasperPrint = JasperFillManager.fillReport(path, parameters);

```

```

JasperReport whenNoDataType="AllSectionsNoDetail" , () .

```

: <https://riptutorial.com/ko/jasper-reports/topic/3958/>

# 7:

<b>parametersMapExpression</b>	Map. ( <i>subreportParameterExpression</i> ). . .
<b>connectionExpression</b>	.
<b>dataSourceExpression</b>	.
	/ URI JasperReport .
<b>returnValue</b>	. . .

- . . .
- `<subreport>` `<subreport>` .
- **subreportExpression** *JasperReports Server JasperReports* (IDE API) .  
*JasperReports Server* .

```
<subreportExpression><![CDATA["repo:subreport.jrxml"]]></subreportExpression>
```

*JasperReports* :

```
<subreportExpression><![CDATA["/somePath/subreport.jasper"]]></subreportExpression>
```

@AndreasDietrich *JasperServer* . . .

- ( `<subreport>` ). . .

## Examples

. . .  
 . ( : jdbc ) . ( )

```
<subreport>
  <reportElement x="0" y="80" width="200" height="100"/>
  <subreportParameter name="someSubreportParameter">

  <subreportParameterExpression><![CDATA[${someMasterReportParameter}]]></subreportParameterExpression>

  </subreportParameter>
  <subreportParameter name="anotherSubreportParameter">
    <subreportParameterExpression><![CDATA["Some text - constant
```

```

value"]]></subreportParameterExpression>
  </subreportParameter>
  <connectionExpression><![CDATA[{$P{REPORT_CONNECTION}}]></connectionExpression>
  <returnValue subreportVariable="someVariableInSubreport"
toVariable="someVariableInMasterReport"/>
  <subreportExpression><![CDATA[{$P{SUBREPORT_DIR} +
"subreport.jasper"}]></subreportExpression>
</subreport>

```

## datasoure

. [net.sf.jasperreports.engine.data.JRBeanCollectionDataSource](https://riptutorial.com/ko/jasper-reports/topic/5452/---) .

```

<field name="someFieldWithList" class="java.util.List"/>
<!-- ..... -->
<subreport>
  <reportElement x="0" y="0" width="200" height="70"/>
  <parametersMapExpression><![CDATA[{$P{REPORT_PARAMETERS_MAP}}]></parametersMapExpression>

  <dataSourceExpression><![CDATA[net.sf.jasperreports.engine.data.JRBeanCollectionDataSource ($F{someField

  <subreportExpression><![CDATA[{$P{SUBREPORT_DIR} +
"subreport.jasper"}]></subreportExpression>
</subreport>

```

: <https://riptutorial.com/ko/jasper-reports/topic/5452/--->

S. No		Contributors
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2	JasperReports .jrxml .jasper .	<a href="#">Alex K</a> , <a href="#">Dave Jarvis</a> , <a href="#">Petter Friberg</a>
3	pdf	<a href="#">Alex K</a> , <a href="#">Dave Jarvis</a> , <a href="#">Petter Friberg</a> , <a href="#">RamenChef</a>
4	xls / xlsx	<a href="#">Alex K</a>
5		<a href="#">Dave Jarvis</a> , <a href="#">Petter Friberg</a>
6		<a href="#">Alex K</a> , <a href="#">Dave Jarvis</a> , <a href="#">Petter Friberg</a>
7		<a href="#">Alex K</a>