

# Compiere with JasperReports 0.6.5

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## 1 Compiere installation

Use my package found at <http://sourceforge.net/projects/compierejaper/> (source or binaries as you want) and install Compiere normally (consult the Compiere documentation at <http://www.compiere.org>)

## 2 Compiere preparation

You need to add a field for storing the filename of your report.

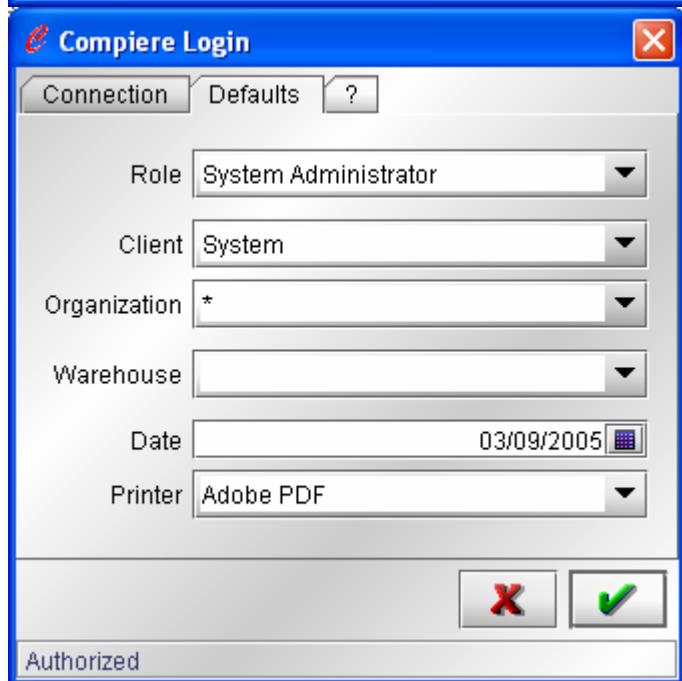
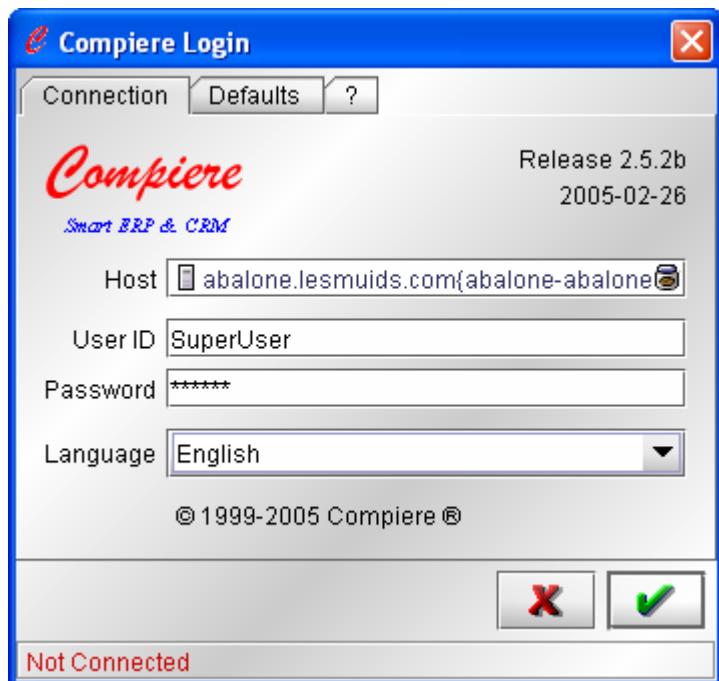
After you can specified a different report for each process you create

Start compiere as with the Java Web Start method ([http://compiere\\_server:port/compiere.jnlp](http://compiere_server:port/compiere.jnlp))

Remark : You might need a JDK version not a JRE one I did not test with a JRE but I'm quite sure that the Report compilation need the JDK

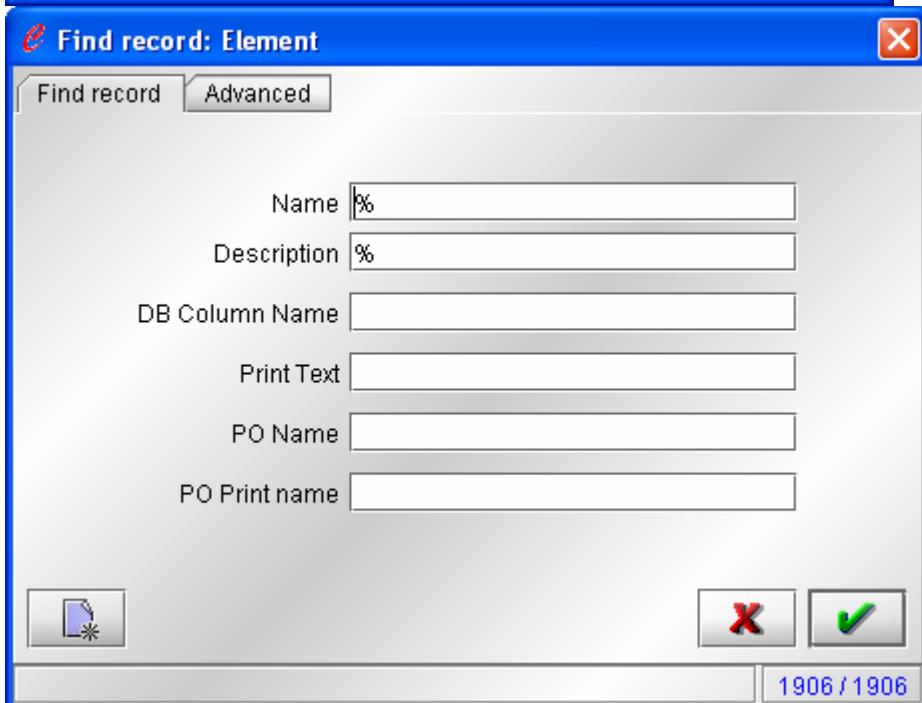
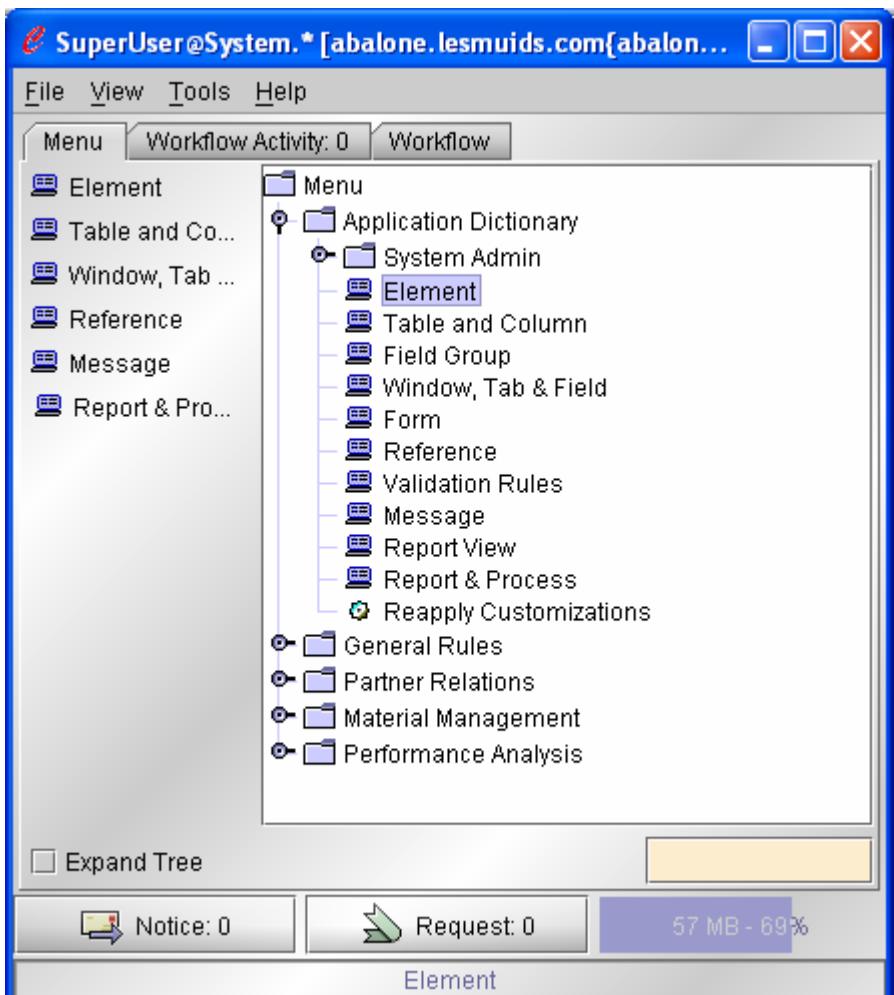
### 2.1 Login

Log in as SuperUser with the System Administrator Role



## 2.2 Create a new system element

Select Application Directory/Element



Click the « New element » icon  
And fill

Element SuperUser@System.\* [abalone.lesmuids.com[abalone-abalone.lesmuids.com-compiere]]

File Edit View Go Tools Help

Element

Used in Column

Client: System Organization: \*

DB Column Name: JasperReport

Name: JasperReport

Print Text: JasperReport Filename

Description: JasperReport Filename (must have .jrxml or .jasper extension depending if the file is compiled or not)

Comment/Help: Create your report with a text editor , iReport or any JasperReports 0.6.5 compliant editor

Active

Entity Type: User maintained

PO Name:

PO Print name:

PO Description:

PO Help:

Navigate or Update record [ +\*1/1 ]

This screenshot shows a dialog box for creating a database column named 'JasperReport'. The 'Client' dropdown is set to 'System' and the 'Organization' dropdown is set to '\*'. The 'DB Column Name' field contains 'JasperReport'. The 'Name' field also contains 'JasperReport'. The 'Print Text' field contains 'JasperReport Filename'. The 'Description' field contains the note '(must have .jrxml or .jasper extension depending if the file is compiled or not)'. The 'Comment/Help' field contains the instruction 'Create your report with a text editor , iReport or any JasperReports 0.6.5 compliant editor'. A checked checkbox labeled 'Active' is present. The 'Entity Type' dropdown is set to 'User maintained'. There are also empty fields for 'PO Name', 'PO Print name', 'PO Description', and 'PO Help'.

Save ...

## 2.3 Database column creation

Now go to Application Directory/Tables and columns

Find record: Table

Find record Advanced

Name: Process

Description: %

DB Table Name:

507 / 507

This screenshot shows a 'Find record: Table' dialog box. The 'Find record' tab is selected. In the 'Name' field, 'Process' is entered. In the 'Description' field, '%' is entered. Below these fields is an empty 'DB Table Name' field. At the bottom left is a small icon of a document with a star. At the bottom right are two buttons: a red 'X' button and a green checkmark button. A status bar at the bottom right shows '507 / 507'.

Select AD\_Process

**Table and Column SuperUser@System.\* [abalone.lesmuids.com[abalone-abalone.lesmuids.com-compiere]]**

Table	Client	Organization	DB Table Name	Name	Description	Comment/Help	Active	View	Data /
Column	System	*	AD_PInstance	Process Instance	Instance of the process		<input checked="" type="checkbox"/>	<input type="checkbox"/>	System
	System	*	AD_Process	Process	Process or Report		<input checked="" type="checkbox"/>	<input type="checkbox"/>	System
	System	*	AD_Process_Para	Process Parameter			<input checked="" type="checkbox"/>	<input type="checkbox"/>	System
	System	*	AD_Process_Para_Trl	Process Parameter Trl	Process Parameter Trl		<input checked="" type="checkbox"/>	<input type="checkbox"/>	System
	System	*	AD_Process_Trl	Process Trl	Process or Report		<input checked="" type="checkbox"/>	<input type="checkbox"/>	System

Navigate or Update record [ 2/5 ]

Afetr clicking select the columns tab

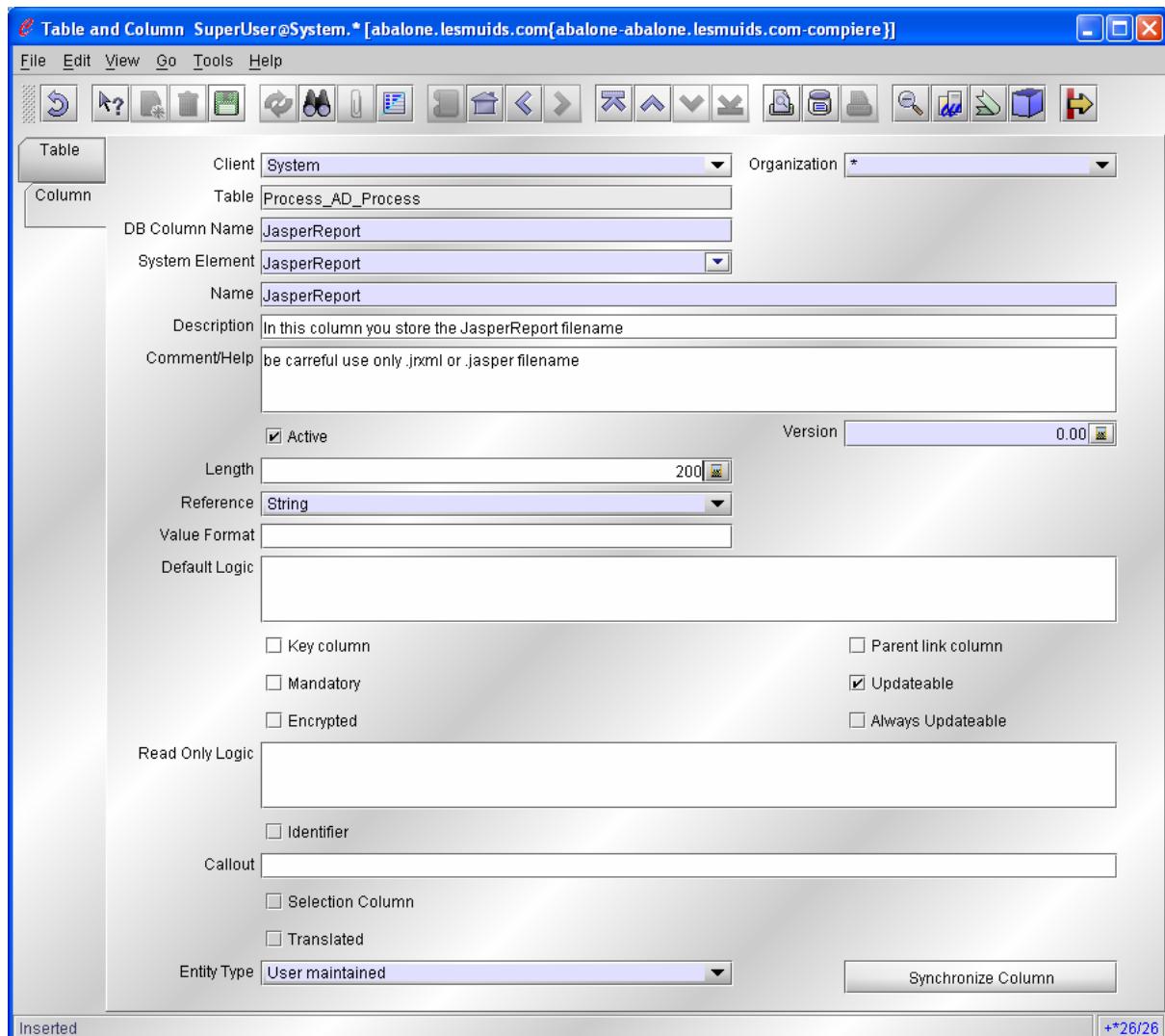
**Table and Column SuperUser@System.\* [abalone.lesmuids.com[abalone-abalone.lesmuids.com-compiere]]**

Table	Client	Organization	Table	DB Column Name	System Element	Name	Description
Column	System	*	Process_AD_Process	AD_Client_ID	AD_Client_ID	Client	Client/Tenant for this installation
	System	*	Process_AD_Process	AD_Org_ID	AD_Org_ID	Organization	Organizational entity within client
	System	*	Process_AD_Process	AD_PrintFormat_ID	AD_PrintFormat_ID	Print Format	Data Print Format
	System	*	Process_AD_Process	AD_Process_ID	AD_Process_ID	Process	Process or Report
	System	*	Process_AD_Process	AD_ReportView_ID	AD_ReportView_ID	Report View	View used to generate this report
	System	*	Process_AD_Process	AD_Workflow_ID	AD_Workflow_ID	Workflow	Workflow or combination of tasks
	System	*	Process_AD_Process	AccessLevel	AccessLevel	Data Access Level	Access Level required
	System	*	Process_AD_Process	Classname	Classname	Classname	Java Classname
	System	*	Process_AD_Process	Created	Created	Created	Date this record was created
	System	*	Process_AD_Process	CreatedBy	CreatedBy	Created By	User who created this record
	System	*	Process_AD_Process	Description	Description	Description	Optional short description of the record
	System	*	Process_AD_Process	EntityType	EntityType	Entity Type	Dictionary Entity Type, Determination
	System	*	Process_AD_Process	Help	Help	Comment/Help	Comment or Hint
	System	*	Process_AD_Process	IsActive	IsActive	Active	The record is active in the system
	System	*	Process_AD_Process	IsBetaFunctionality	IsBetaFunctionality	Beta Functionality	This functionality is considered experimental
	System	*	Process_AD_Process	IsDirectPrint	IsDirectPrint	Direct print	Print without dialog
	System	*	Process_AD_Process	IsReport	IsReport	Report	Indicates a Report record
	System	*	Process_AD_Process	Name	Name	Name	Alphanumeric identifier of the record
	System	*	Process_AD_Process	ProcedureName	ProcedureName	Procedure	Name of the Database Procedure
	System	*	Process_AD_Process	Statistic_Count	Statistic_Count	Statistic Count	Internal statistics how often this record is used
	System	*	Process_AD_Process	Statistic_Seconds	Statistic_Seconds	Statistic Seconds	Internal statistics how many seconds this record is used
	System	*	Process_AD_Process	Updated	Updated	Updated	Date this record was updated
	System	*	Process_AD_Process	UpdatedBy	UpdatedBy	Updated By	User who updated this record
	System	*	Process_AD_Process	Value	Value	Search Key	Search key for the record in the list
	System	*	Process_AD_Process	WorkflowValue	WorkflowValue	Workflow Key	Key of the Workflow to start

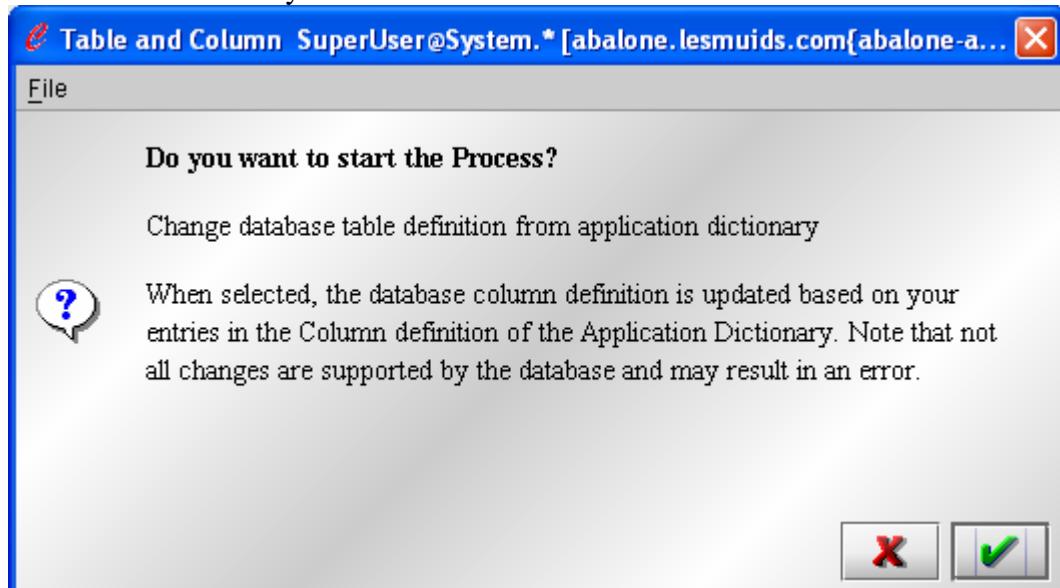
Navigate or Update record

25/25

Add a new Column and change the « Data grid toggle » and fill in



Now save and click Synchronize Column



Click OK

And remark that now you have a information ... ALTER TABLE...

**Table and Column SuperUser@System.\* [abalone.lesmuids.com[abalone-abalone.lesmuids.com-compiere]]**

File Edit View Go Tools Help

Table Column

Client: System Organization: \*

Table: Process\_AD\_Process

DB Column Name: JasperReport

System Element: JasperReport

Name: JasperReport

Description: In this column you store the JasperReport filename

Comment/Help: be careful use only .jrxml or .jasper filename

Active:  Version: 0.00

Length: 200

Reference: Text

Default Logic:

Key column  Parent link column  
 Mandatory  Updateable  
 Encrypted  Always Updateable

Read Only Logic:

Identifier

Callout:

Selection Column  Translated

Entity Type: User maintained

Process completed successfully (Updated - ALTER TABLE AD\_Process MODIFY JasperReport NVARCHAR2(200)) 26/26

So it is OK !

## 2.4 Report & Process window modification

SuperUser@System.\* [abalone.lesmuids.com\abalon...]

File View Tools Help

Menu Workflow Activity: 0 Workflow

Element Table and Co... Window, Tab ... Reference Message Report & Pro...

Application Dictionary

- System Admin
- Element
- Table and Column
- Field Group
- Window, Tab & Field
- Form
- Reference
- Validation Rules
- Message
- Report View
- Report & Process
- Reapply Customizations

General Rules Partner Relations Material Management Performance Analysis

Expand Tree

Notice: 0 Request: 0 64 MB - 62%

Window, Tab & Field

Find record: Window

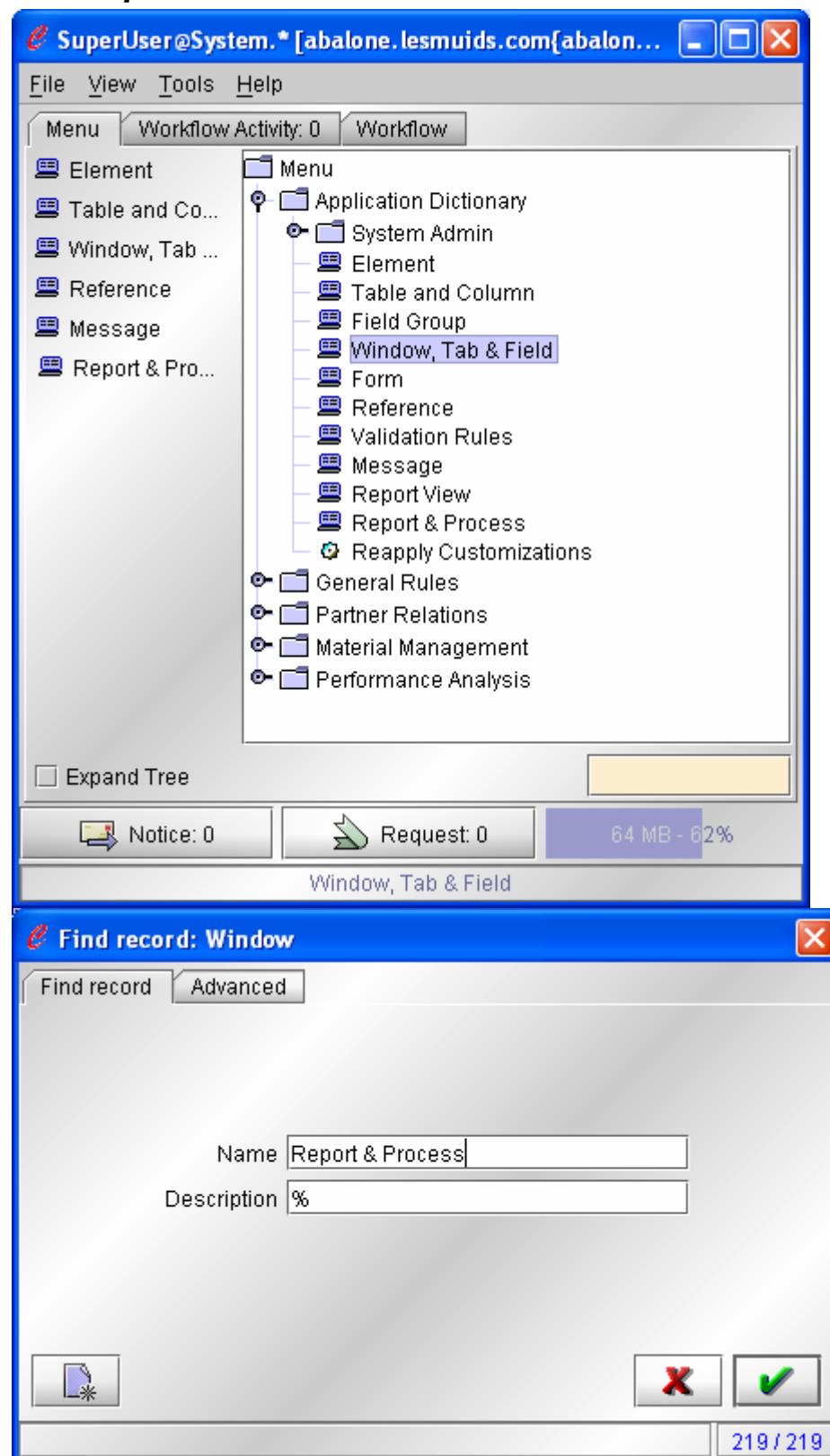
Find record Advanced

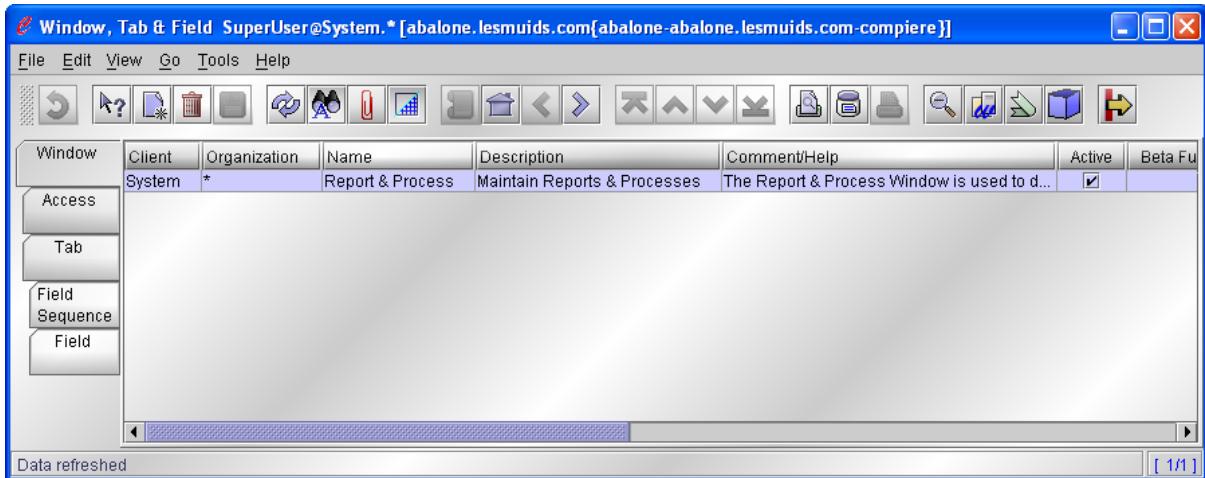
Name Report & Process

Description %

219 / 219

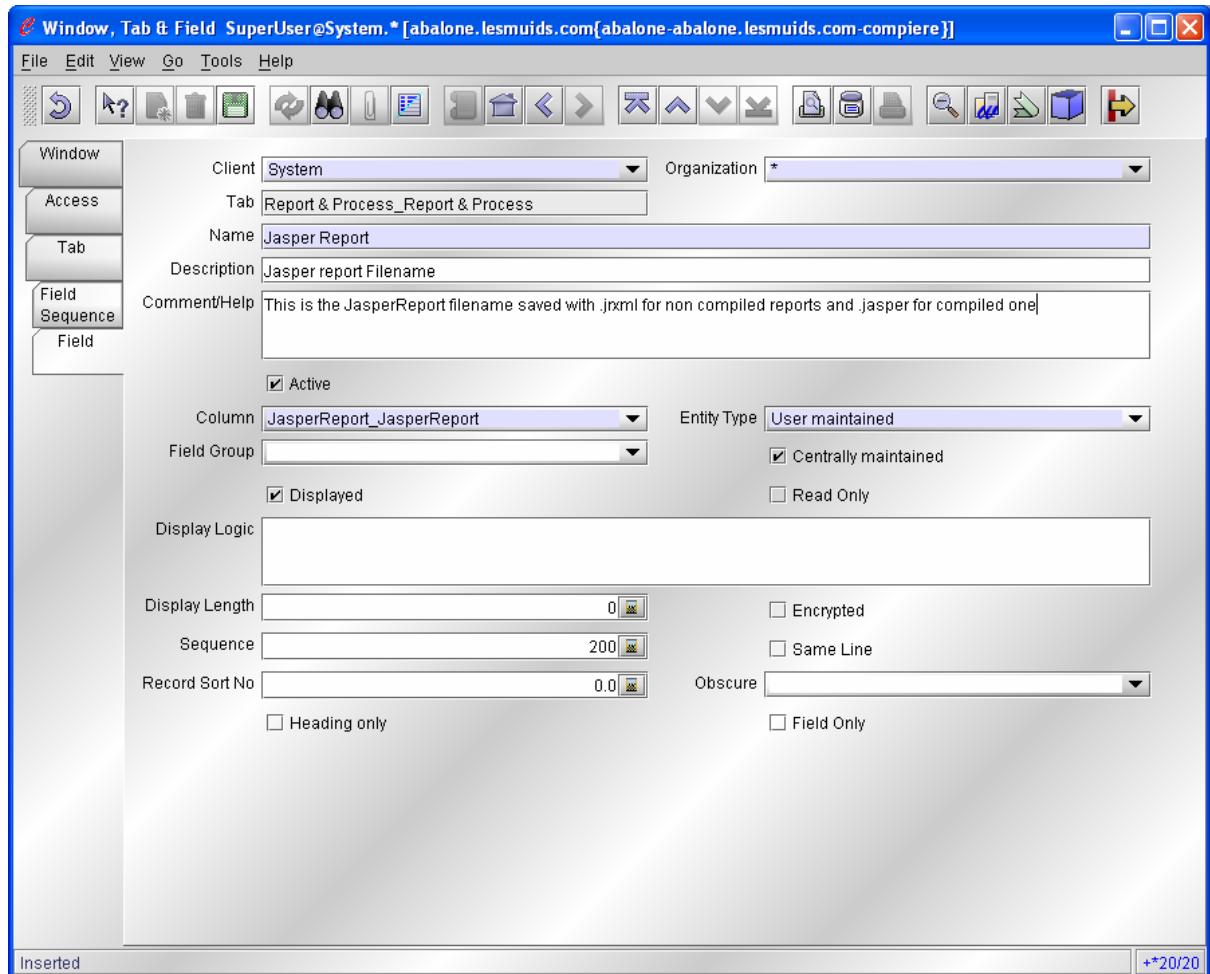




It is important to click each tab... Perhaps a bug in the current Compiere Version now you are in the Field Tab

Client	Organization	Tab	Name	Description	Comment/Help
System	*	Report & Process_Report & Process	Client	Client/Tenant for this installation.	A Client is a
System	*	Report & Process_Report & Process	Organization	Organizational entity within client	An organizat
System	*	Report & Process_Report & Process	Search Key	Search key for the record in the format requi...	A search ke
System	*	Report & Process_Report & Process	Name	Alphanumeric identifier of the entity	The name o
System	*	Report & Process_Report & Process	Description	Optional short description of the record	A descriptio
System	*	Report & Process_Report & Process	Comment/Help	Comment or Hint	The Help fie
System	*	Report & Process_Report & Process	Active	The record is active in the system	There are tw
System	*	Report & Process_Report & Process	Beta Functionality	This functionality is considered Beta	Beta functio
System	*	Report & Process_Report & Process	Entity Type	Dictionary Entity Type, Determines ownersh...	The Entity Ty
System	*	Report & Process_Report & Process	Data Access Level	Access Level required	Indicates thi
System	*	Report & Process_Report & Process	Report	Indicates a Report record	The Report
System	*	Report & Process_Report & Process	Classname	Java Classname	The Classn
System	*	Report & Process_Report & Process	Procedure	Name of the Database Procedure	The Proced
System	*	Report & Process_Report & Process	Workflow	Workflow or combination of tasks	The Workflo
System	*	Report & Process_Report & Process	Report View	View used to generate this report	The Report'
System	*	Report & Process_Report & Process	Direct print	Print without dialog	The Direct F
System	*	Report & Process_Report & Process	Print Format	Data Print Format	The print fo
System	*	Report & Process_Report & Process	Statistic Count	Internal statistics how often the entity was u...	For internal
System	*	Report & Process_Report & Process	Statistic Seconds	Internal statistics how many seconds a pro...	For internal

Click « New Record » and toggle the view  
And fill...

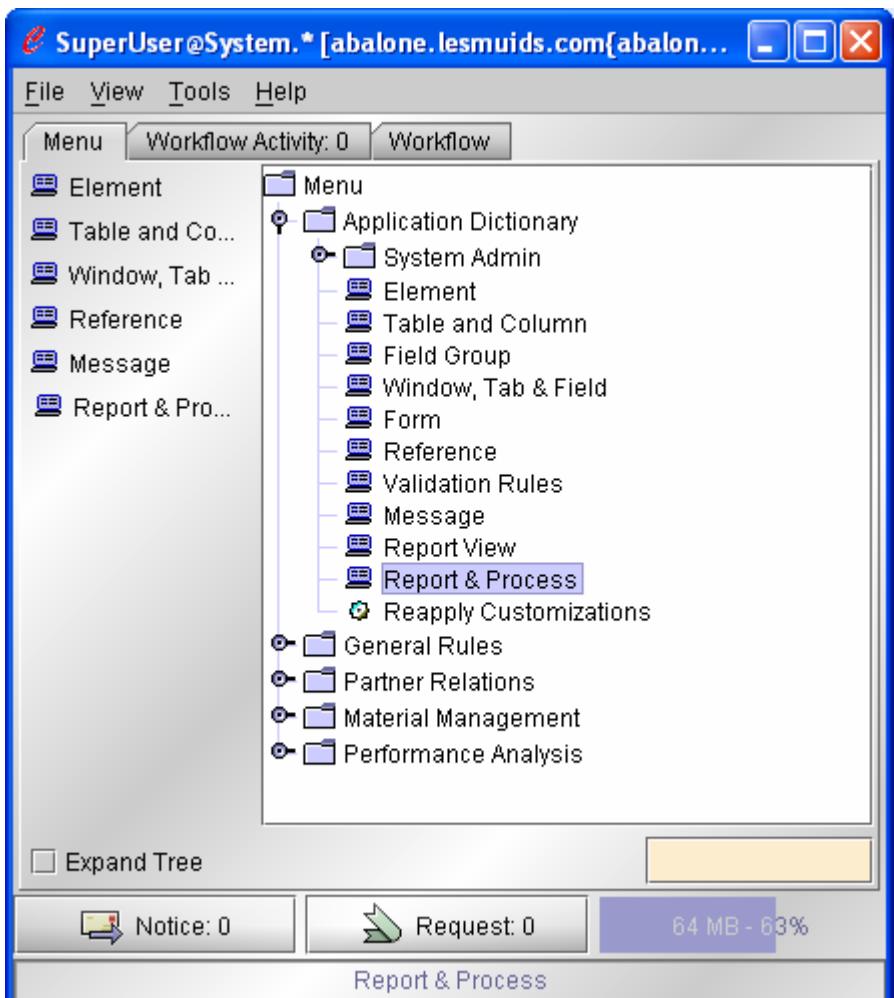


### 3 Process creation

#### 3.1 Simple standalone process creation

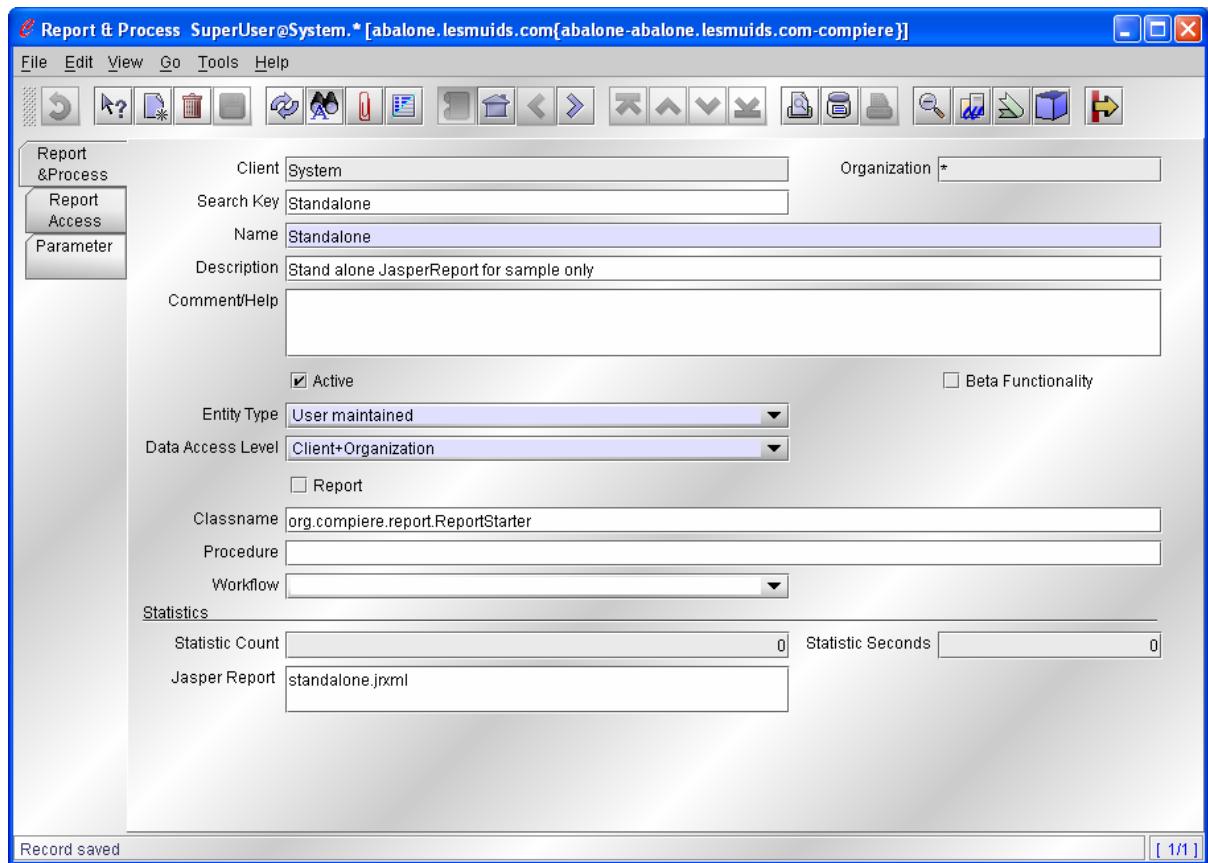
In this sample we will create a process called Standalone accessible directly in the main menu  
You are logged in as System Administrator role...

Go to



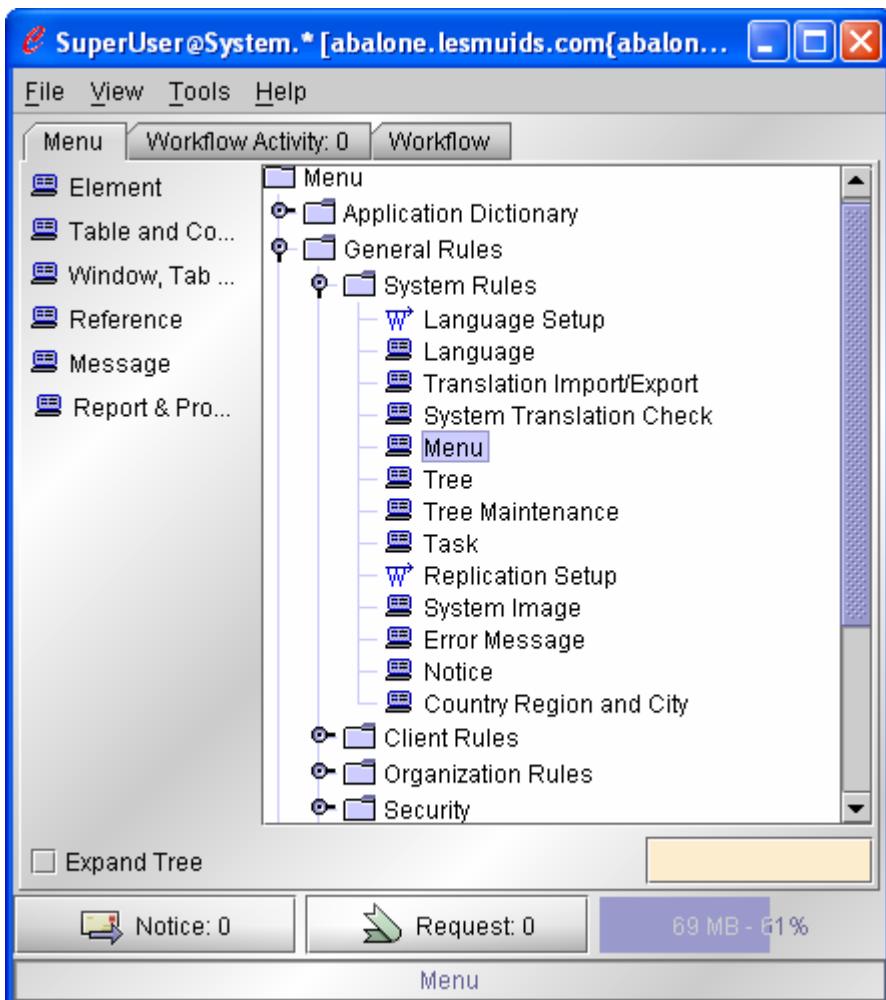
The screenshot shows a modal dialog box titled "Find record: Report & Process". It has tabs for "Find record" and "Advanced". The "Find record" tab is active. It contains four search fields: "Key" (with placeholder "%"), "Name" (with placeholder "%"), "Description" (with placeholder "%"), and "Procedure" (empty). Below the fields are two buttons: a "New Record" icon (document with asterisk) and a "Delete" icon (red X). To the right are "OK" (green checkmark) and "Cancel" (red X) buttons. At the bottom, a status bar shows "214 / 214".

Select the « new record » icon and fill

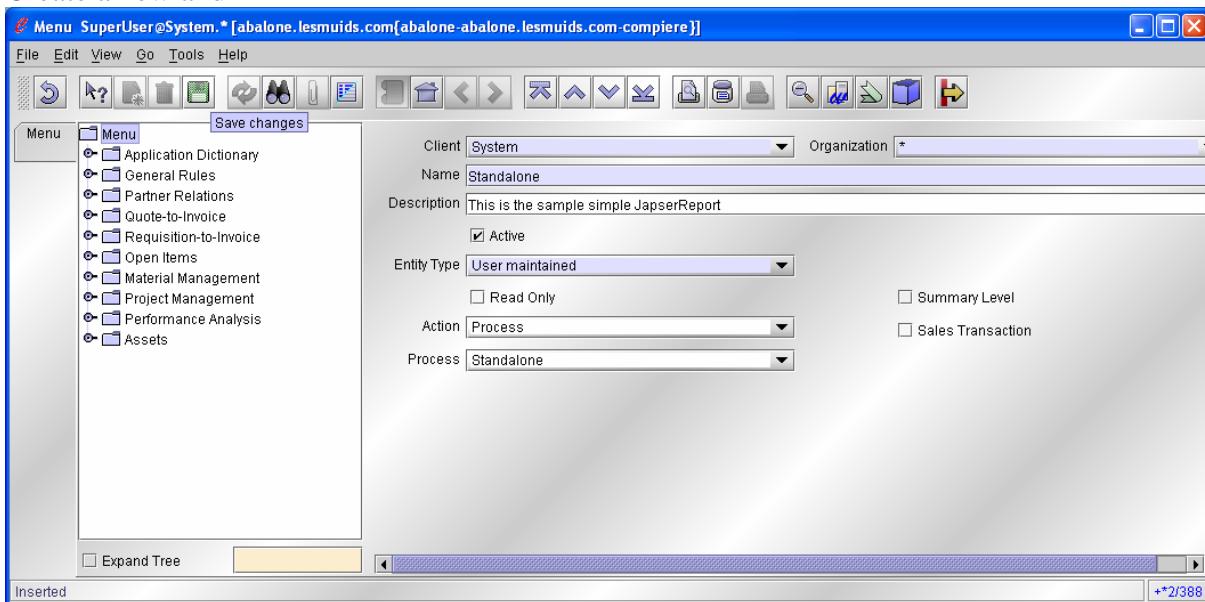


### 3.1.1 Menu creation

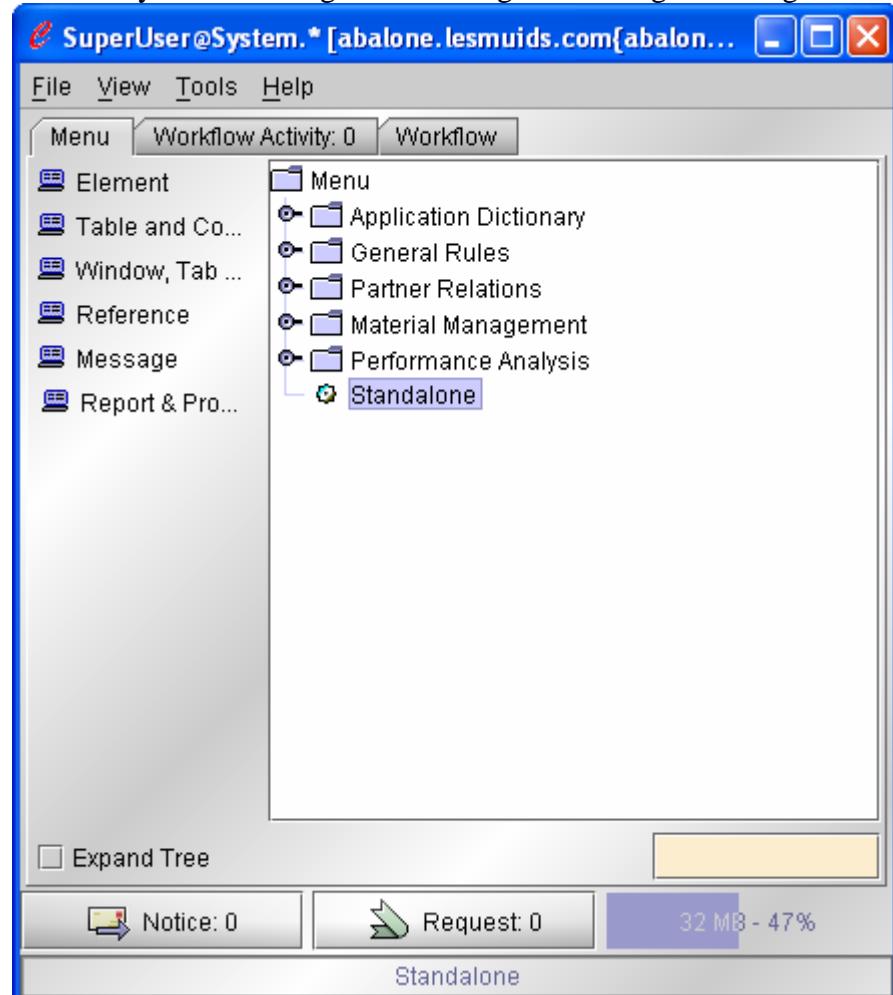
Go to



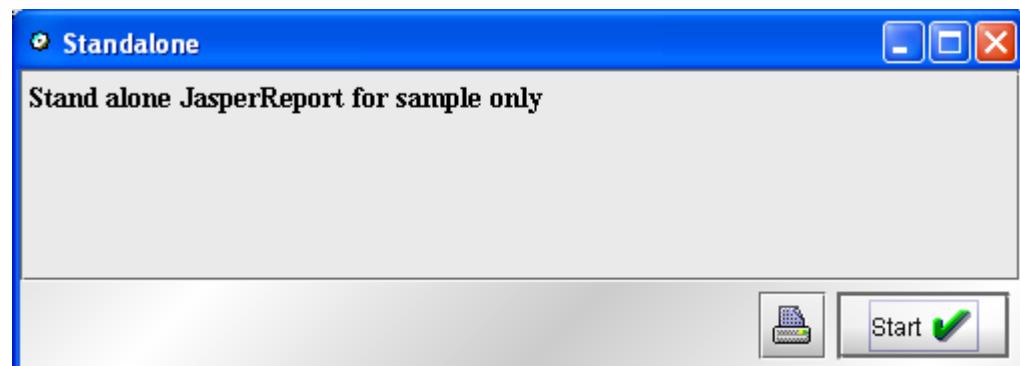
Create a new and fill



Remark : you have to logout and re log in for seeing the change



The file go in \$COMPIERE\_HOME/reports be carreful with some Java Web Start installations because if the COMPIERE\_HOME is not set you might get something like c:\Document And Settings\user\Desktop\null as COMPIERE\_HOME  
It is not a problem for testing this you just have to start the process without putting the report



you hear a sound marking an error

Just close the window and go to the Tools/preference Menu

Select the Errors Tab and you can see exactly where Compiere is looking for your Report and this is what I get with the standalone.jrxml report deployed on the server you can find in

annexe.

The screenshot shows the Jaspersoft Studio application window. The title bar reads "Standalone - http://abalone.lesmuids.com/webApp/standalone.jrxml". The main area displays a report design with several static text elements. Each element is accompanied by its XML code. The report includes text in various fonts, sizes, and colors, some with effects like bold, italic, underline, and strike-through. The background of the report area has three colored boxes: yellow, orange, and blue, each containing text. The XML code uses reportElement and textElement tags to define the layout and styling of the text.

```
<staticText><reportElement x="0" y="50" width="150" height="40"/><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="100" width="150" height="40"/><textElement><font size="14"></font></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="150" width="150" height="40"/><textElement><font fontName="serif" size="12" pdfFontName="Times-Roman" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="200" width="150" height="40"/><textElement><font fontName="serif" size="12" isBold="true" isItalic="true" pdfFontName="Times-BoldItalic" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="250" width="150" height="40"/><textElement><font fontName="Comic Sans MS" size="12" isBold="false" pdfFontName="COMIC.TTF" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="300" width="150" height="40"/><textElement><font fontName="Comic Sans MS" size="12" isBold="true" pdfFontName="COMICBD.TTF" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="350" width="150" height="40"/><textElement><font fontName="monospace" size="12" isItalic="true" isUnderline="true" pdfFontName="Courier-Oblique" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="400" width="150" height="40"/><textElement><font fontName="monospace" size="12" isBold="true" isStrikeThrough="true" pdfFontName="Courier-Bold" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="450" width="150" height="40" foreColor="red"/><textElement><font size="14" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

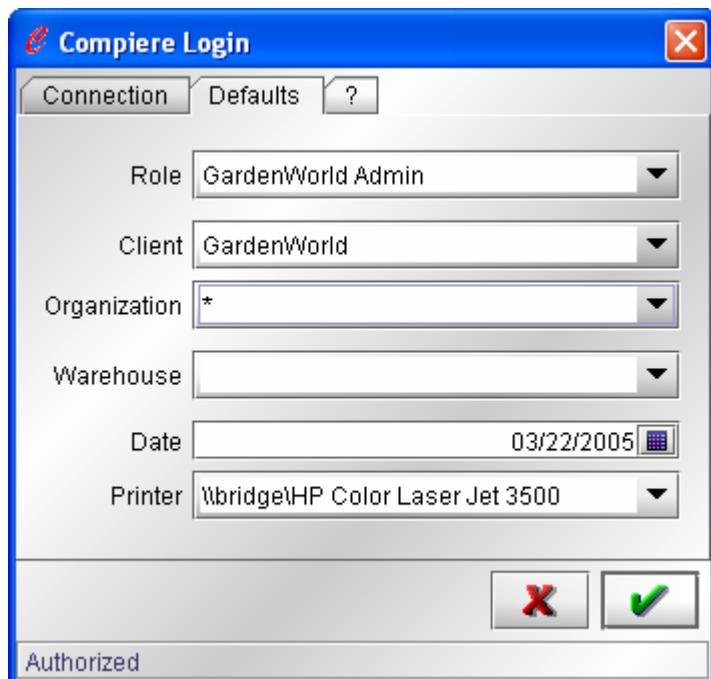
<staticText><reportElement x="0" y="500" width="150" height="40" foreColor="green" backColor="#FFFF00" mode="Opaque" /><textElement><font fontName="serif" size="12" isBold="true" pdfFontName="Times-Bold" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

<staticText><reportElement x="0" y="550" width="150" height="90" foreColor="blue" backColor="#FFDD00" mode="Opaque" /><textElement textAlignment="Center" verticalAlignment="Middle" ><font fontName="serif" size="12" isBold="true" pdfFontName="Times-Bold" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>

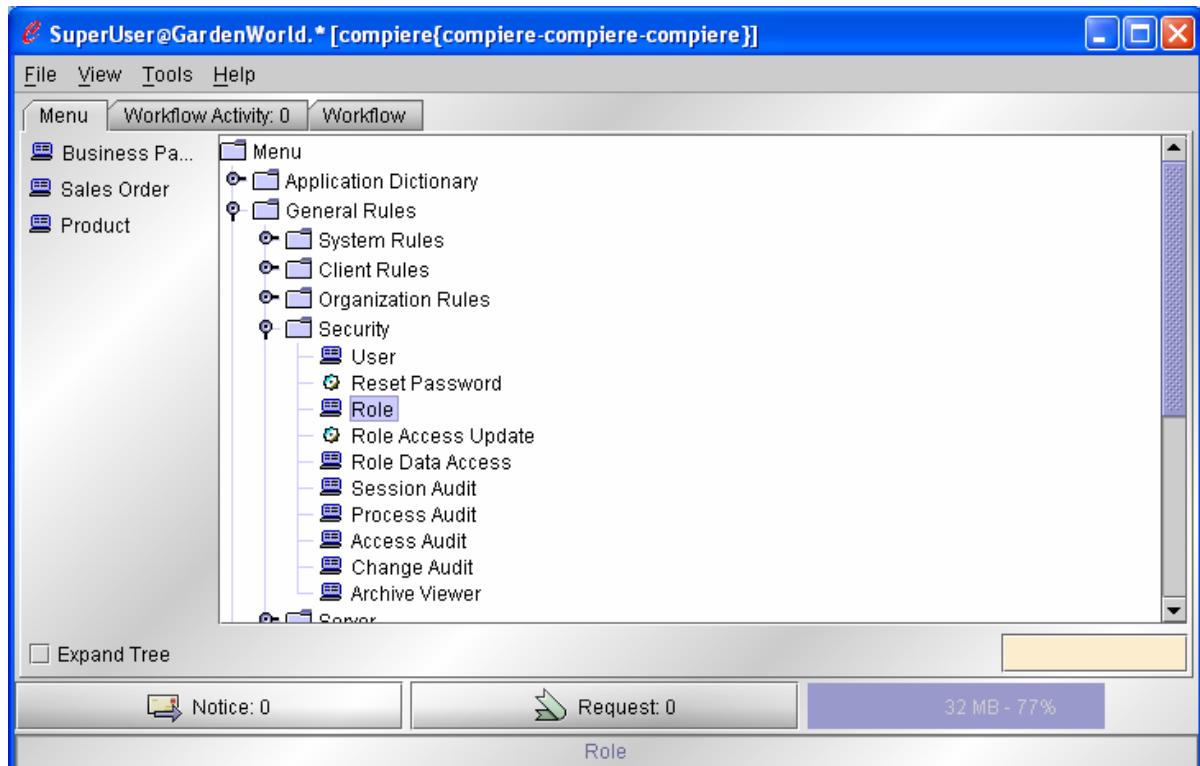
<staticText><reportElement x="0" y="600" width="150" height="90" foreColor="red" backColor="#00FFFF" mode="Opaque" /><textElement textAlignment="Right" verticalAlignment="Bottom" ><font fontName="serif" size="12" isBold="true" pdfFontName="Times-Bold" /></textElement><text>The quick brown fox jumps over the lazy dog.</text></staticText>
```

### 3.1.2 Security access to new menus

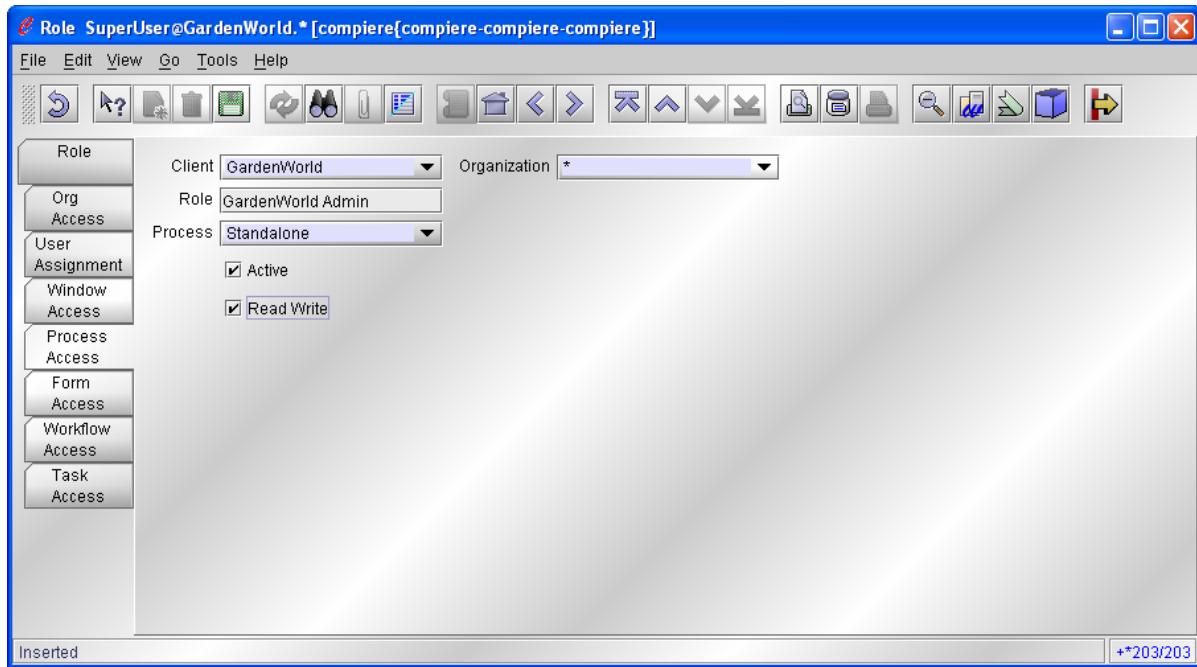
In order to get access to your new « Standalone » report from your target Client Role, you need to allow access to processus  
Login as your client Admin Role



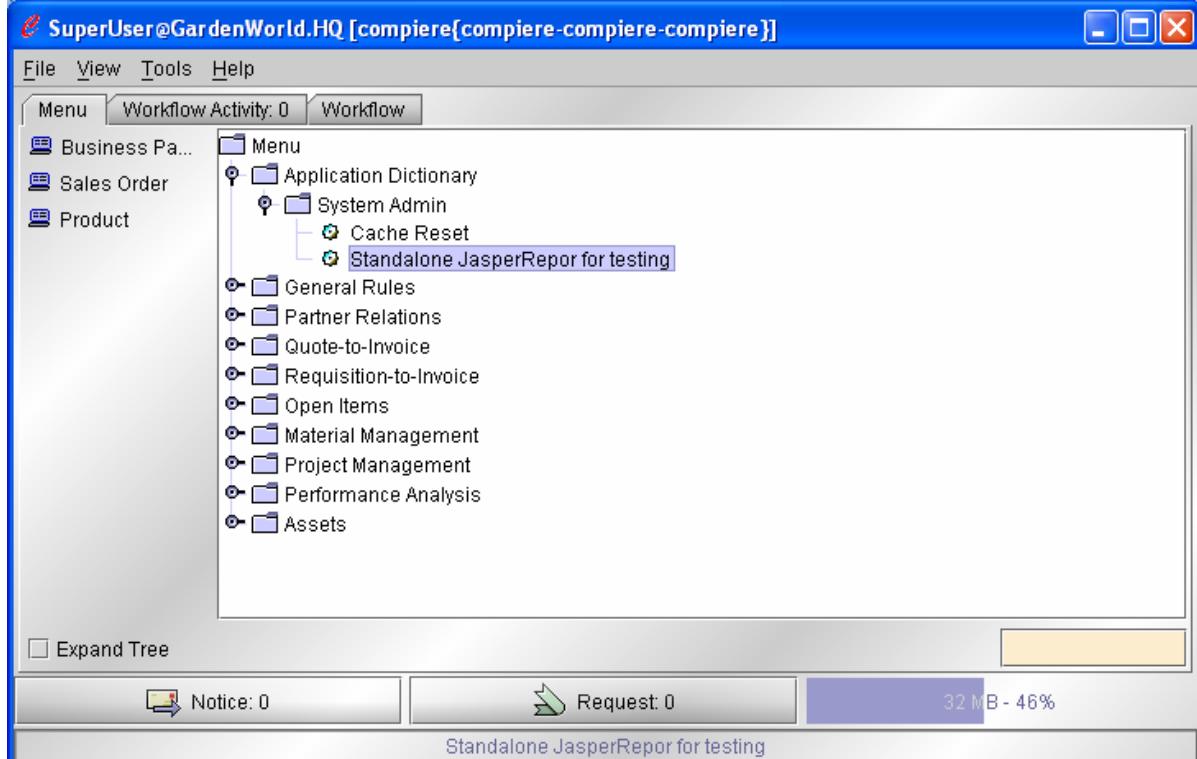
And in the main menu select the role control window



Now you can add a role accessing your process in the process Access Tab



Exit and Re-log



With have it now (perhaps somewhere else this print screen is buggy because my menu display name is different because I put a different name!)

### **3.2 « In window context » process creation**

### **3.3 ReportType Selection**

Thanks to Alin

You can now add a column type as previously. Add

**Report & Process SuperUser@System.\* [erp{erp-compiere.bittech.ro-compiere}]**

**File Edit View Go Tools Help**

**Report &Process**

Client: System      Organization: \*

Search Key: EA\_TestReport

Name: EA\_TestReport

Description:

Comment/Help:

Active       Beta Functionality

Entity Type: Customization

Data Access Level: All

Report

Classname: org.compiere.report.ReportStarter

Procedure:

Workflow:

Report View:

Direct print

Print Format:

Jasper Report: <http://erp/reports/test.jrxml>

**Statistics**

Statistic Count: 0      Statistic Seconds: 0

Data refreshed [ 2/3 ]

**Report & Process SuperUser@System.\* [erp{erp-compiere.bittech.ro-compiere}]**

**File Edit View Go Tools Help**

**Report &Process**

Client: System      Organization: \*

Process: EA\_TestReport

Name: Report Type

Description:

Comment/Help:

Active

Entity Type: Customization       Centrally maintained

Sequence: 10

DB Column Name: ReportType

Reference: List

Value Format:

Length: 0

Mandatory       Range

Default Logic: @ProductType@

Min. Value:

Max. Value:

Data refreshed [ 1/1 ]

**Product Alin Vaida@BITTech dev.HQ [erp{erp-compiere.bittech.ro-compiere}]**

File Edit View Go Tools Help

Product

Client	BITTech dev	Organization	HQ
Search Key	1000001		
Name	test		
Description			
Comment/Help			
Document Note			
UPC/EAN	<input checked="" type="checkbox"/> Active		
Product Category	Standard	Reve	Mail Template
Tax Category	Standard	Sales	<input type="button" value="X"/>
UOM	Each	<input type="button" value="Check"/>	
Product Type	Item	Volume	0.00
Weight	0.00	Drop Shipment	<input type="checkbox"/>
Freight Category			
<input checked="" type="checkbox"/> Stocked	Locator	<input type="button" value="X"/>	
Shelf Width	0	Shelf Height	0
Shelf Depth	0	Units Per Pallet	0
<input type="checkbox"/> Bill of Materials	<input checked="" type="checkbox"/> Purchased	<input checked="" type="checkbox"/> Sold	
<input type="checkbox"/> Discontinued			
Subscription Type			
Image URL	Compiere		
Download URL	Processing ... Please wait ...		
Guarantee Days	0	Min Guarantee Days	0
Attribute Set	Attribute Set Instance		
<input type="checkbox"/> Featured in Web Store	<input type="checkbox"/> Self-Service		

Record saved [ 2/3 ]

**Shell - Compiere-252b**

Session Edit View Bookmarks Settings Help

```

21:08:07.129 ProcessCtrl.startProcess: ProcessInfo[EA_TestReport,Process_ID=1000001,AD_PInstance_ID=1000325,Record_ID=1001811,ClassName=org.compiere.report.ReportStarter,Error=false,Summary=,Log=0] [68]
21:08:07.197 ReportStarter.startProcess: ReportStarter.startProcess Name=EA_TestReport AD_PInstance_ID=1000325 Record_ID=1001811 [68]
21:08:07.199 ReportStarter.getReportData: ReportStarter.getReportFileName [68]
21:08:07.658 Trx.start: **** JasperReport [68]
21:08:07.806 ReportStarter.addProcessParameters: ReportStarter.addProcessParameters [68]
21:08:07.981 ReportStarter.getReportFile: New file: http://erp/reports/test_I.jrxml [68]
21:08:07.982 ReportStarter.getReportFile: http://erp/reports/test_I.jrxml [68]
21:08:07.983 ReportStarter.httpDownloadedReport: report deployed to http://erp/reports/test_I.jrxml [68]
=====> ReportStarter.getRemoteFile: 404 not found: Report cannot be found on server http://erp/reports/test_I.jrxml [68]
-----> ReportStarter.startProcess: No report file found for given type, falling back to http://erp/reports/test.jrxml [68]
21:08:08.068 ReportStarter.httpDownloadedReport: report deployed to http://erp/reports/test.jrxml [68]
21:08:08.104 ReportStarter.isRequestedonAS: Got erp/192.168.3.5 for http://erp/reports/test.jrxml as address #0 [68]
21:08:08.105 ReportStarter.isRequestedonAS: Requested report is on application server host [68]
21:08:08.108 ReportStarter.isMDSHomeInterfaceAvailable: EJB client for MDS remote hashing is present [68]
21:08:09.013 ReportStarter.ejbGetRemoteMD5: MD5 for http://erp/reports/test.jrxml is 081Hbr9gu+EBF4J7ZFnrlA== [68]
21:08:09.067 ReportStarter.httpDownloadedReport: MD5 for local file is 081Hbr9gu+EBF4J7ZFnrlA== [68]
21:08:09.069 ReportStarter.httpDownloadedReport: no need to download: local report is up-to-date [68]
21:08:09.071 ReportStarter.processReport: ReportStarter.processReport - /tmp/test.jrxml [68]
21:08:09.072 ReportStarter.processReport: no need to compile use /tmp/test.jasper [68]
21:08:10.464 ReportStarter.startProcess: ReportStarter.startProcess run report -test1 [68]
21:08:14.134 AWindow.setBusy: AWindow_140 - false [11]

```

## 4 Report deployment Strategy

It is now easy to deploy reports in \$COMPIERE\_HOME/reports or directly on a web server. Just specify the full URL in the Report & Process/JasperReport field and the report will be downloaded from the web server.

Note that the source jrxml is automatically stored in the local temp directory and replaced if a new version is present on the server.

Note also that the compiled version is also kept in the temp directory so the compilation is only done one time.

#### **4.1 Deploy reports on the application server**

It is probably the best method for deploying reports. You need to create a package containing your report.

The best way is to create an EAR deployment package and put it in the jboss/server/compiere/deploy directory of the application server. Jboss will detect that you add a package and deploy it automatically, if you remove it removes... it is magic.

You can find on sourceforge a webApp.ear package which include standalone.jrxml report deployed as

<http://compiereservename.domain:compierewebportifnot80/webApp/standalone.jrxml>

## **5 Annexes**

## 5.1 Standalone.jrxml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Created using an evaluation version of JasperAssistant (http://www.jasperassistant.com) -->
<!DOCTYPE jasperReport PUBLIC "-//JasperReports//DTD Report Design//EN" "http://jasperreports.sourceforge.net/dtds/jasperreport.dtd">

<jasperReport name="standalone" pageWidth="595" pageHeight="842" whenNoDataType="AllSectionsNoDetail" columnWidth="555" leftMargin="20" rightMargin="20" topMargin="30"
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    </title>
    <pageHeader>
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    <pageFooter>
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```

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```

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lazy dog.</text></staticText>]]></text>
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```