

Jasper Reports In Odoo

The workflow has been given below with all steps involved and how the Jasper Report has to be created with snapshots.

Prerequisite :

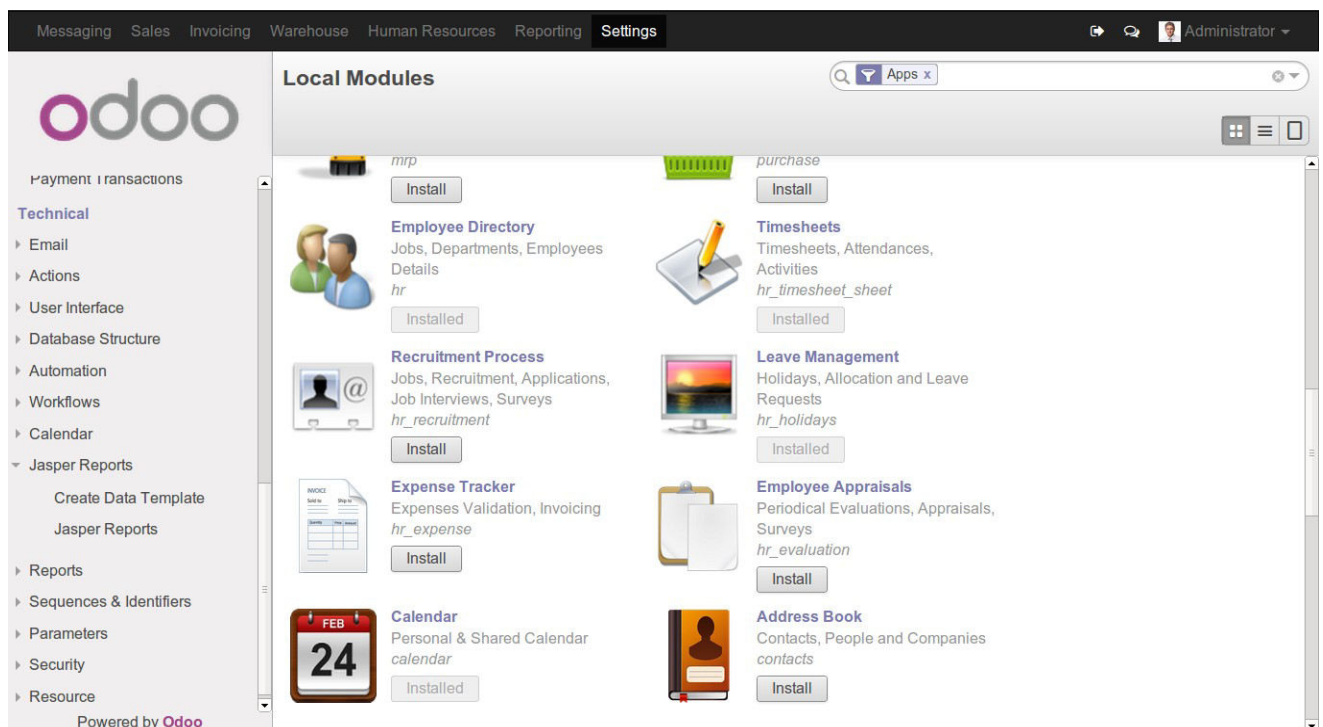
1. Install Jasper_reports module in odoo v8.
2. Install iReport from Jasper Community:
<http://community.jaspersoft.com/project/ireport-designer/releases>

iReport Installation :

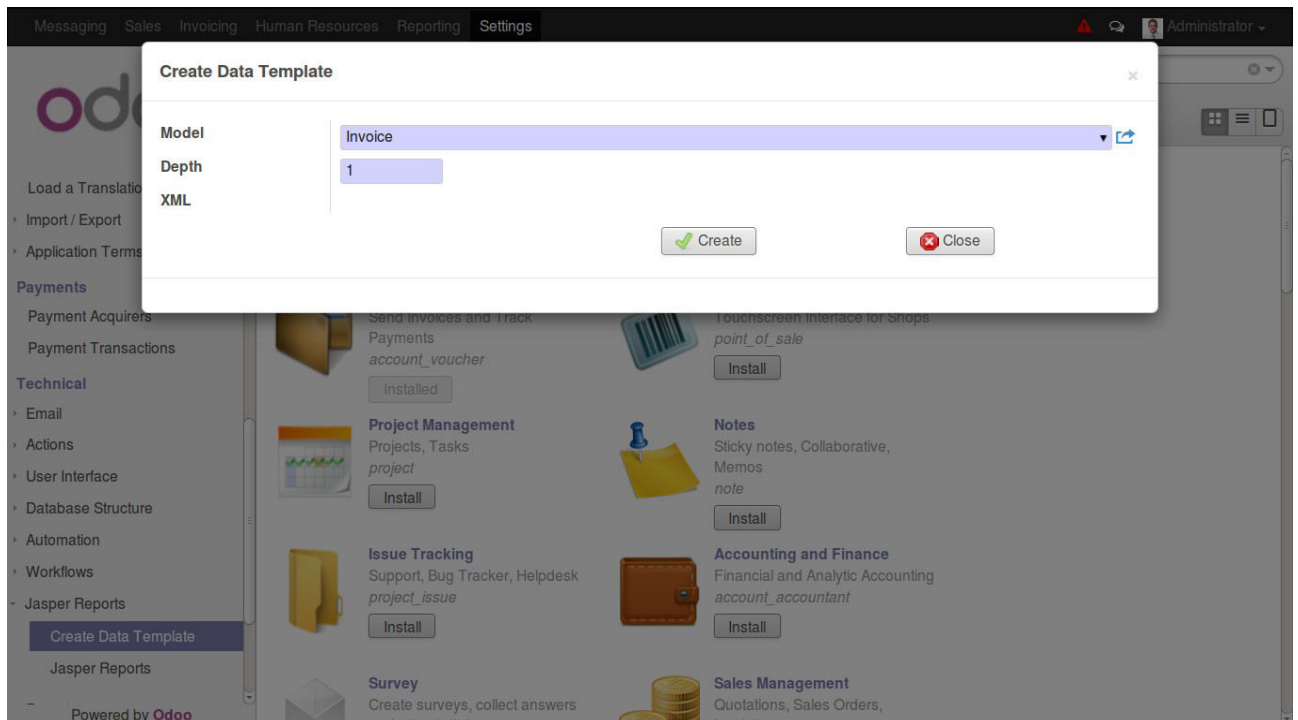
- a) Go to iReports folder .
- b) Bin --> run ireport.sh file. Make sure you have given executable permission.
- c) If you want to run iReport from command line:
 - i) cd iReport/bin
 - ii) sudo chmod 777 ireport
 - ii) sudo sh ./ireport

Creating Invoice Report :

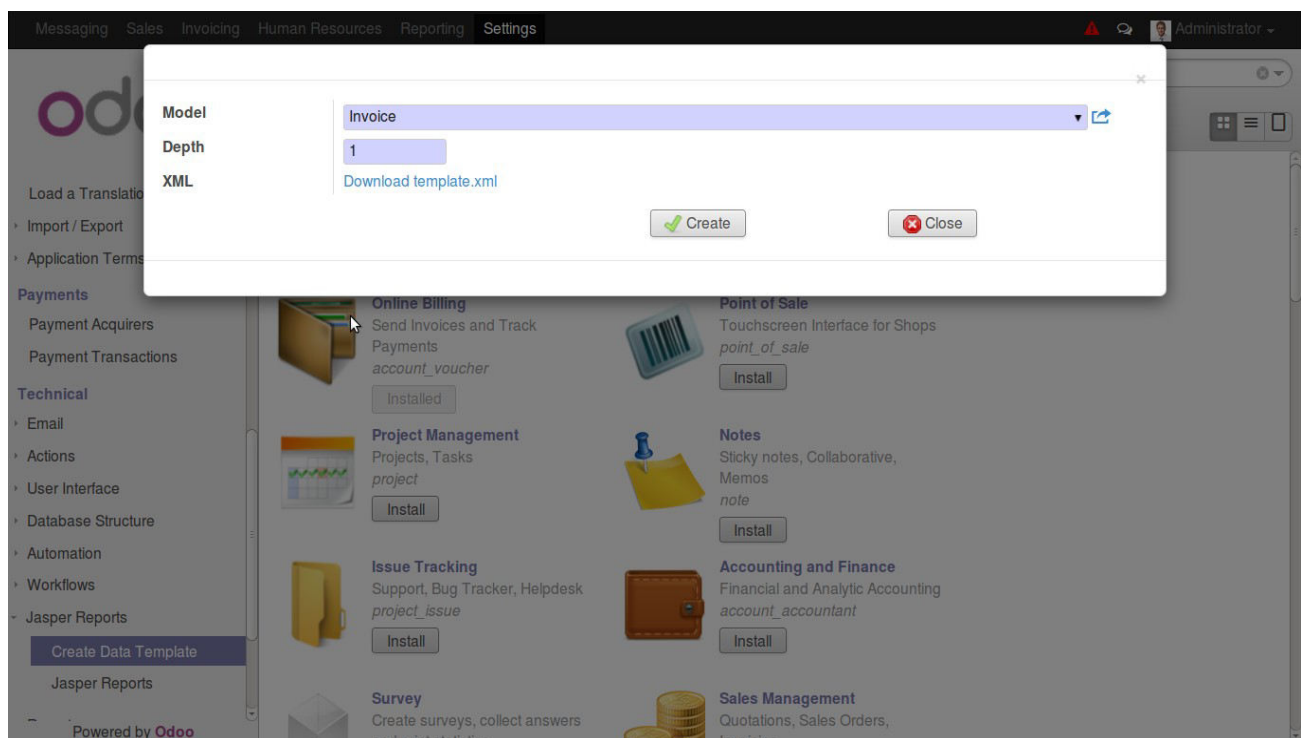
1. Now in your Odoo web interface , go to
Settings --> Technical --> Jasper Reports --> Create Data Template



2. Now the data to be filled:
Model : Account.invoice
Depth : 1
Click on Create

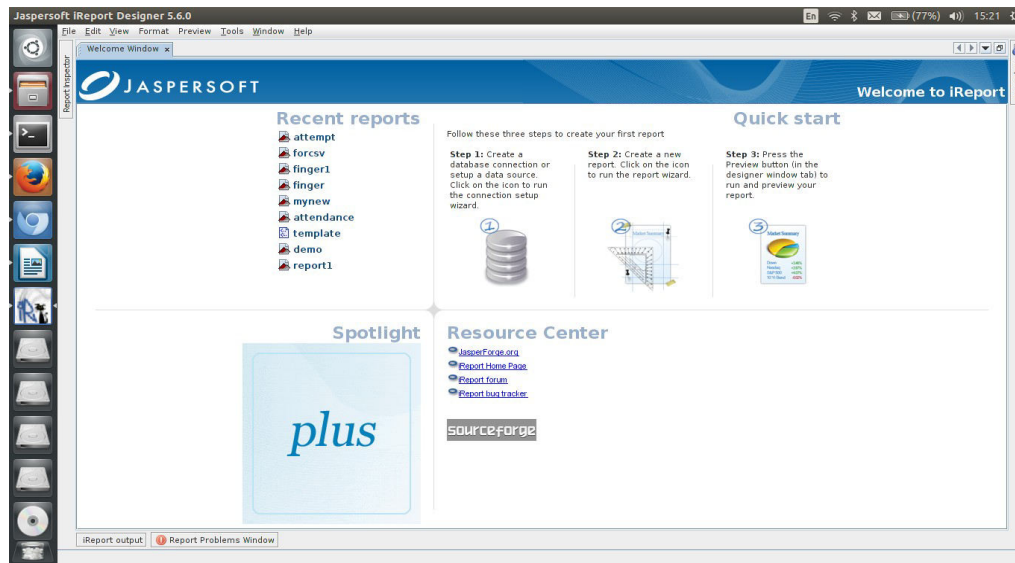


Result Obtained:



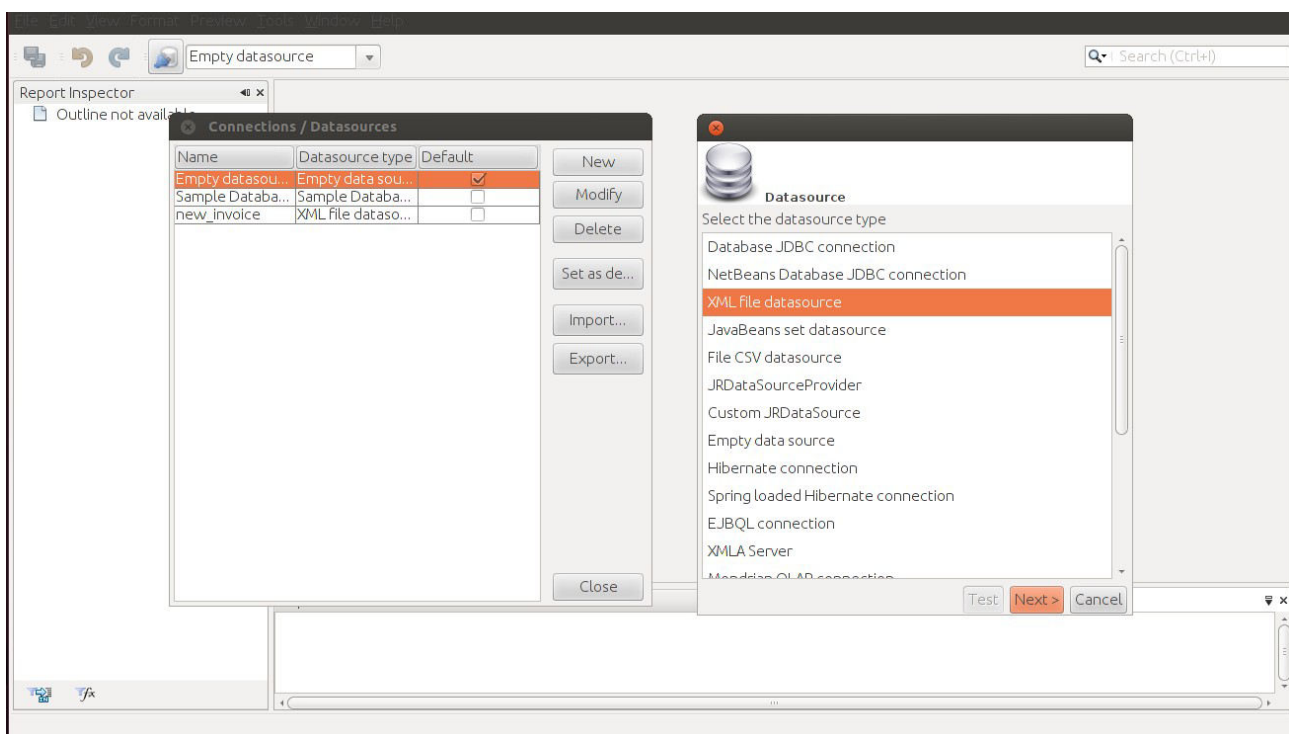
Now you can see , after clicking on create button, “[Download template.xml](#)” has been created. Download the xml file.

3. Open iReport



4. Configure Report datasource

- 1) click on Report datasource --> Connections/Datasources
- 2) select empty datasource and click on 'New'
- 3) a new window opens giving all the types of datasource, select 'XML file datasource'



5. Enter the details for XML datasource (Fig 1)

- 1) Name: demo_invoice
- 2) Give the path to template.xml file that was created in Odoo (Refer step 4)

After entering all the details click on 'Test' button to check the connection (Fig 2)

Snapshots are given below:

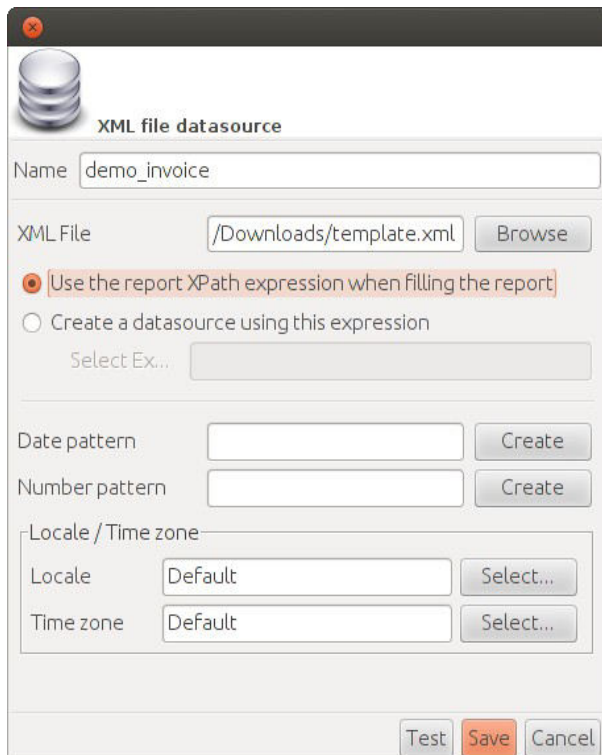


Fig 1

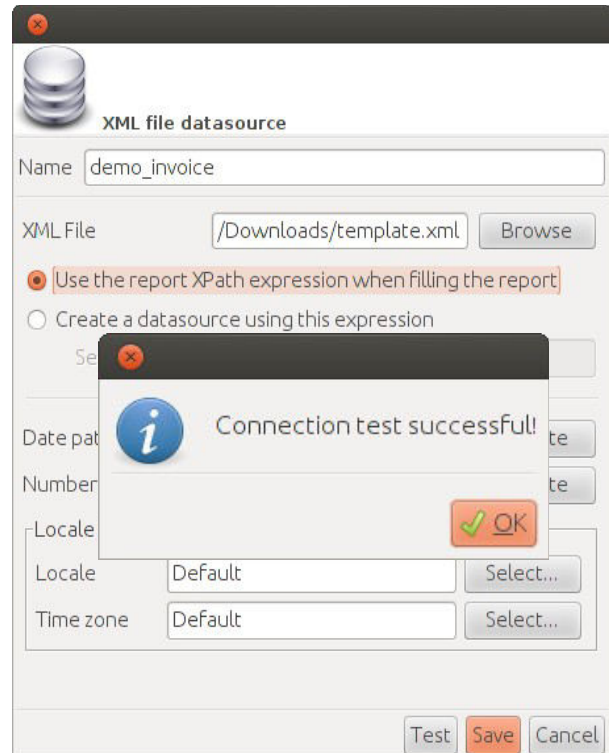
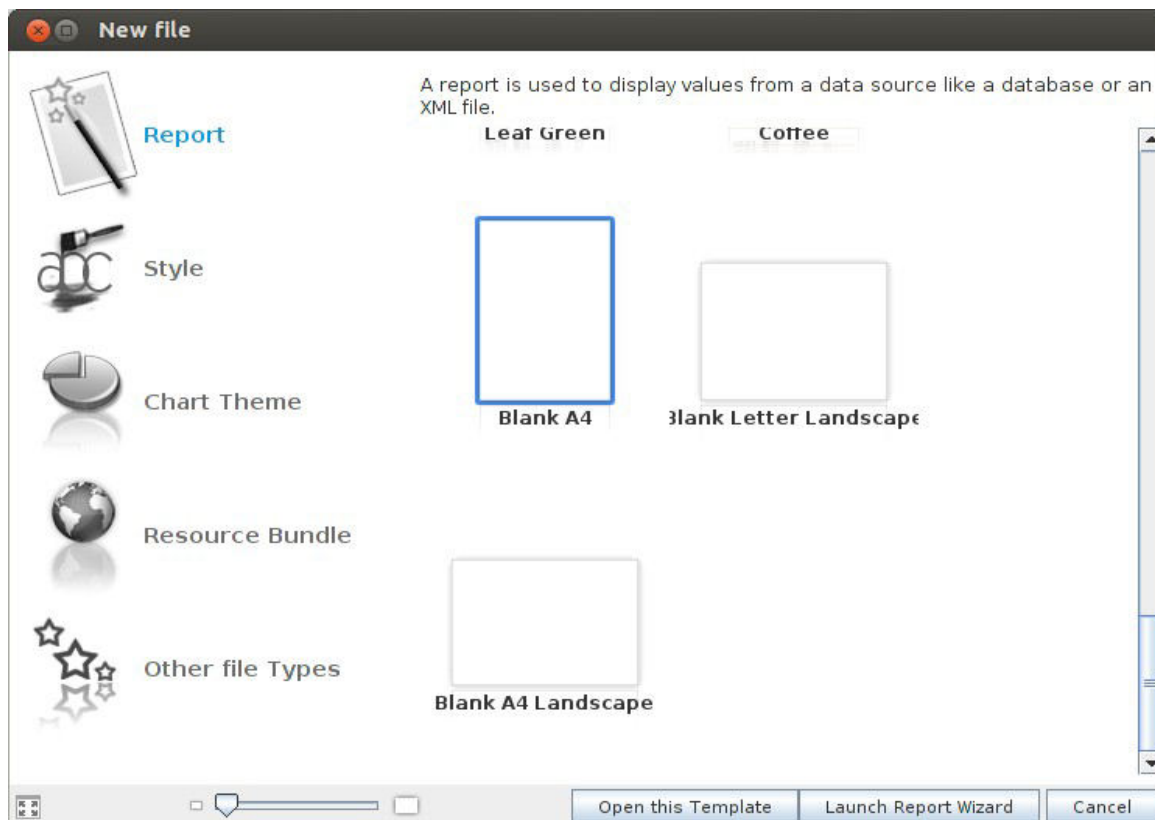


Fig 2

Save and close the Xml datasource window.

6. Create New file by clicking on New --> New File windows opens
Select a Blank template and click on 'Open this template'



New

Steps

1. Choose Template
- 2. Name and location**
3. Finish

Name and location

Report name:

Location:

File:

< Back Next > Finish Cancel Help

Enter the details:

Report name: demo_report1

Location: Give path to custom_reports folder in Jasper Reports module

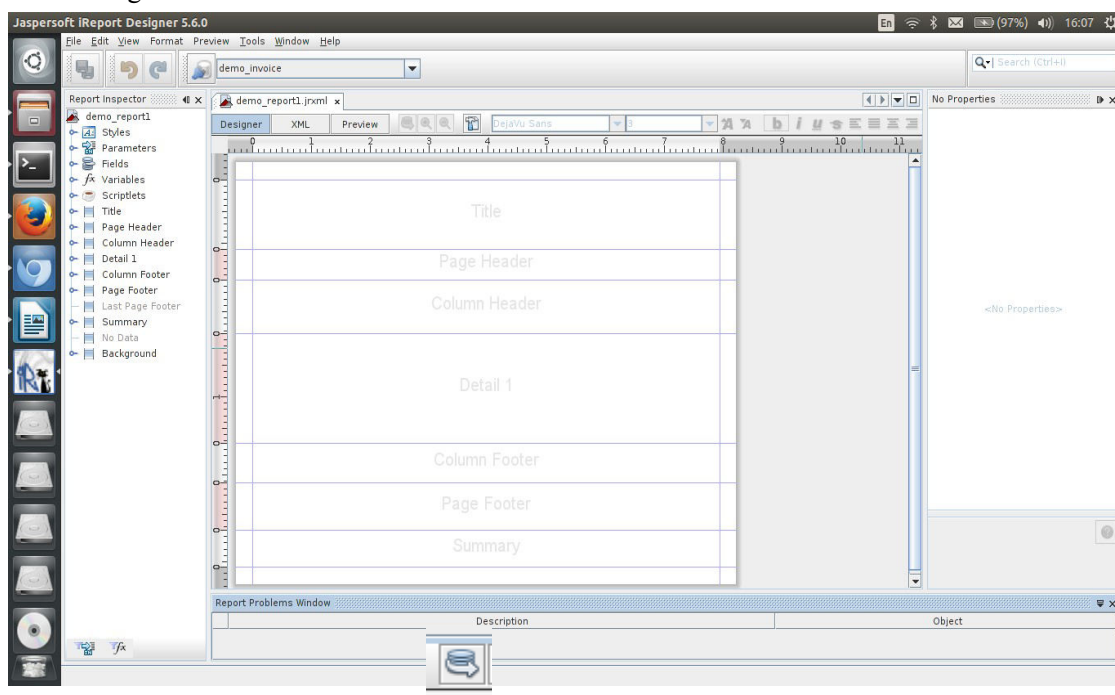
--> odoo/addons/jasper_reports/custom_reports

File: .jrxml file is created in the custom_reports folder

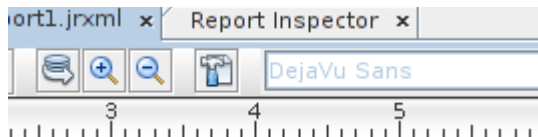
--> demo_report1.jrxml

After setting the location click on 'Next' --> 'Finish'

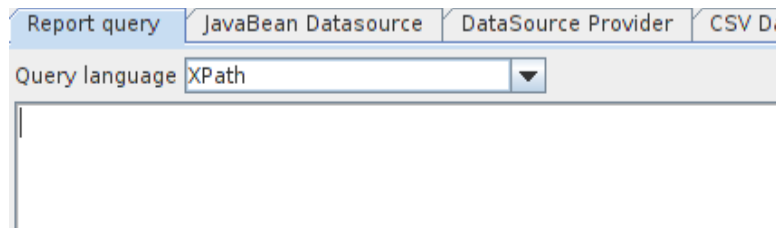
7. Resulting View:



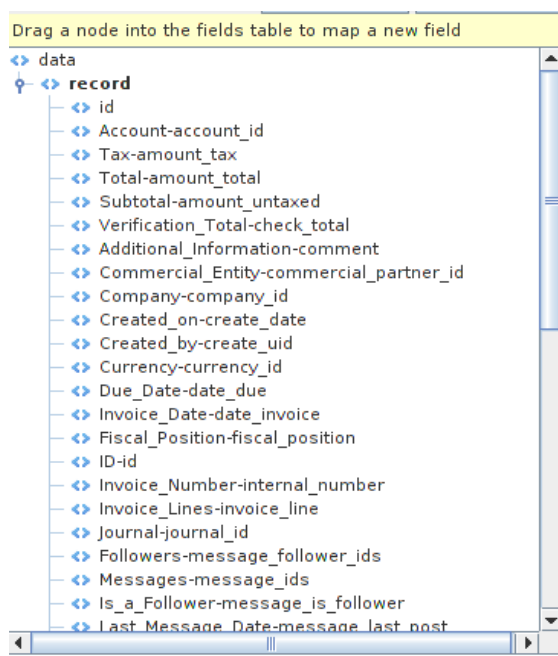
8. Click on the Report Query box



9. From the drop down menu 'Query language', select ---> XPath



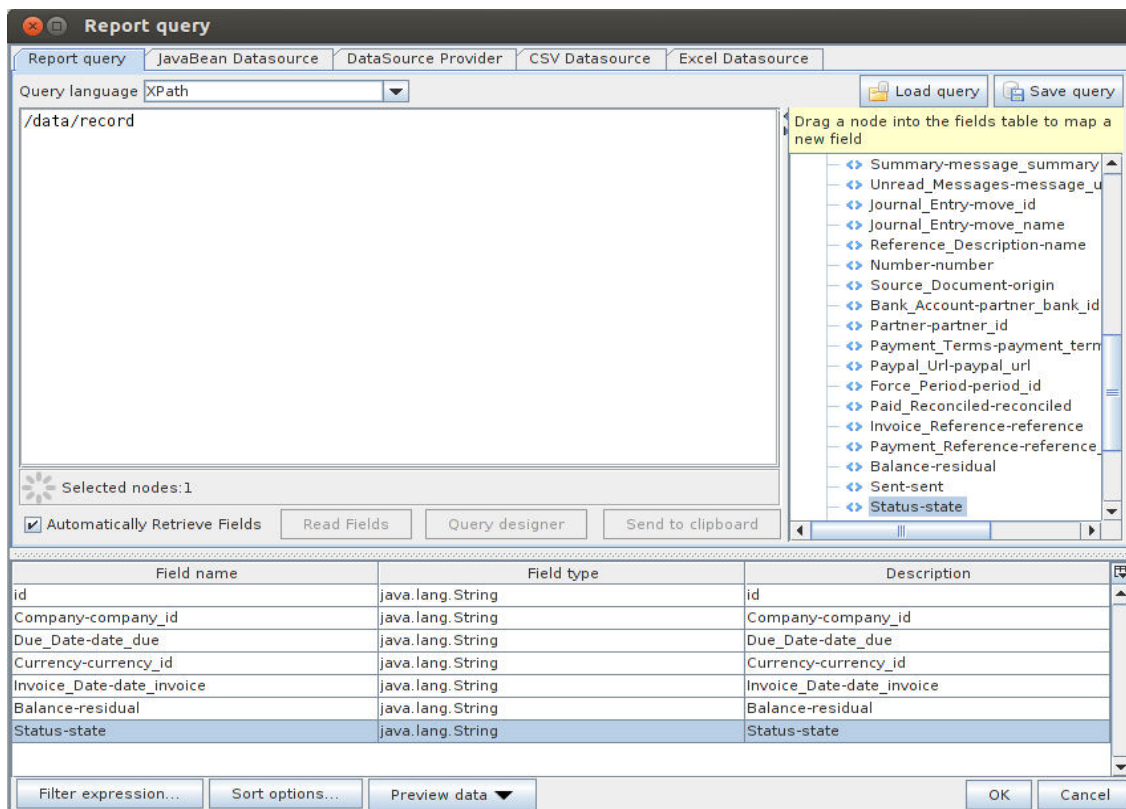
10. On the left hand side you will be able to see all the fields related to 'account.invoice' model listed



11. Select the fields you want in the Report by drag and drop in the

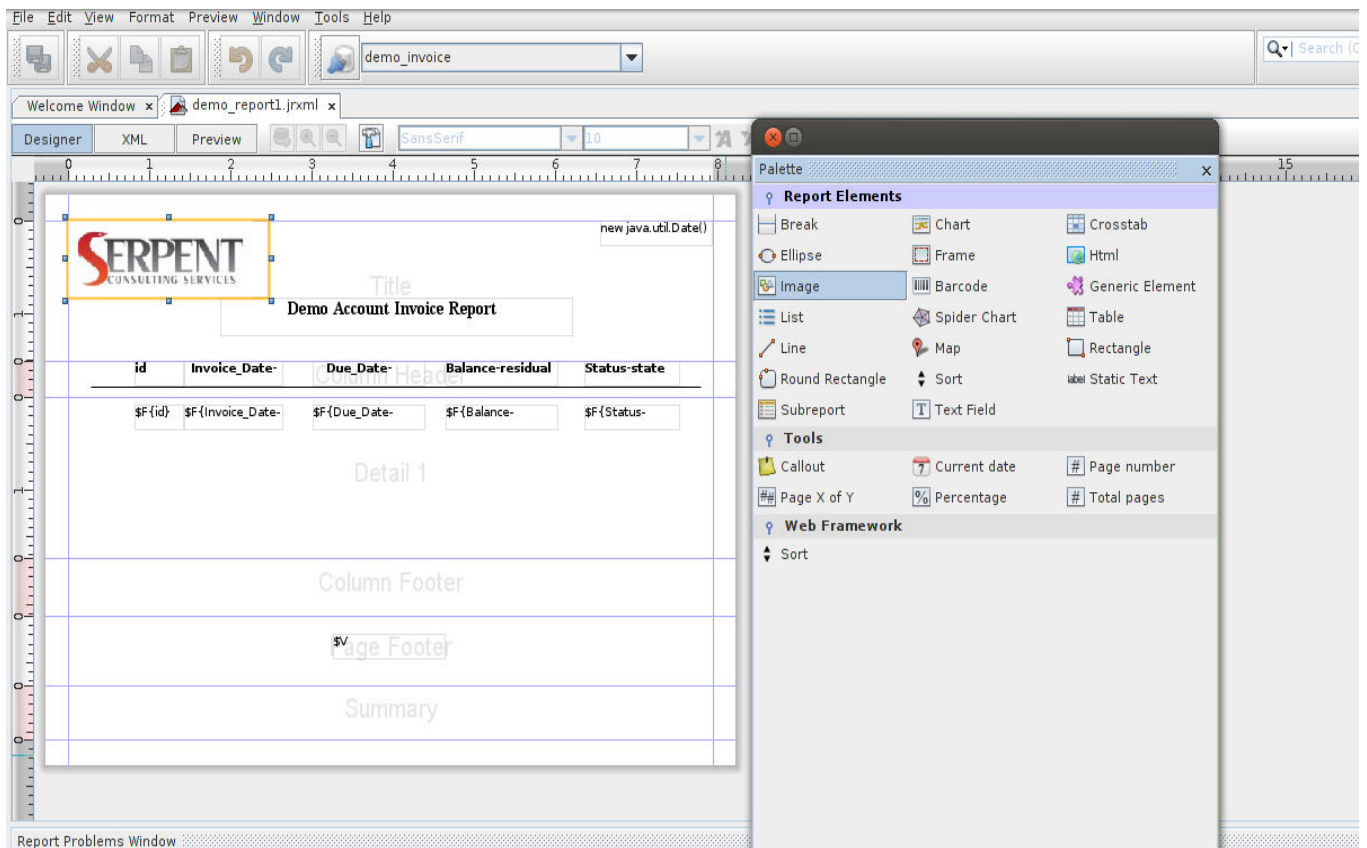
Field name	Field type	Description
id	java.lang.String	id
Company-company_id	java.lang.String	Company-company_id
Due_Date-date_due	java.lang.String	Due_Date-date_due
Currency-currency_id	java.lang.String	Currency-currency_id
Invoice_Date-date_invoice	java.lang.String	Invoice_Date-date_invoice
Balance-residual	java.lang.String	Balance-residual
Status-state	java.lang.String	Status-state

Filter expression... Sort options... Preview data ▼ OK Cancel



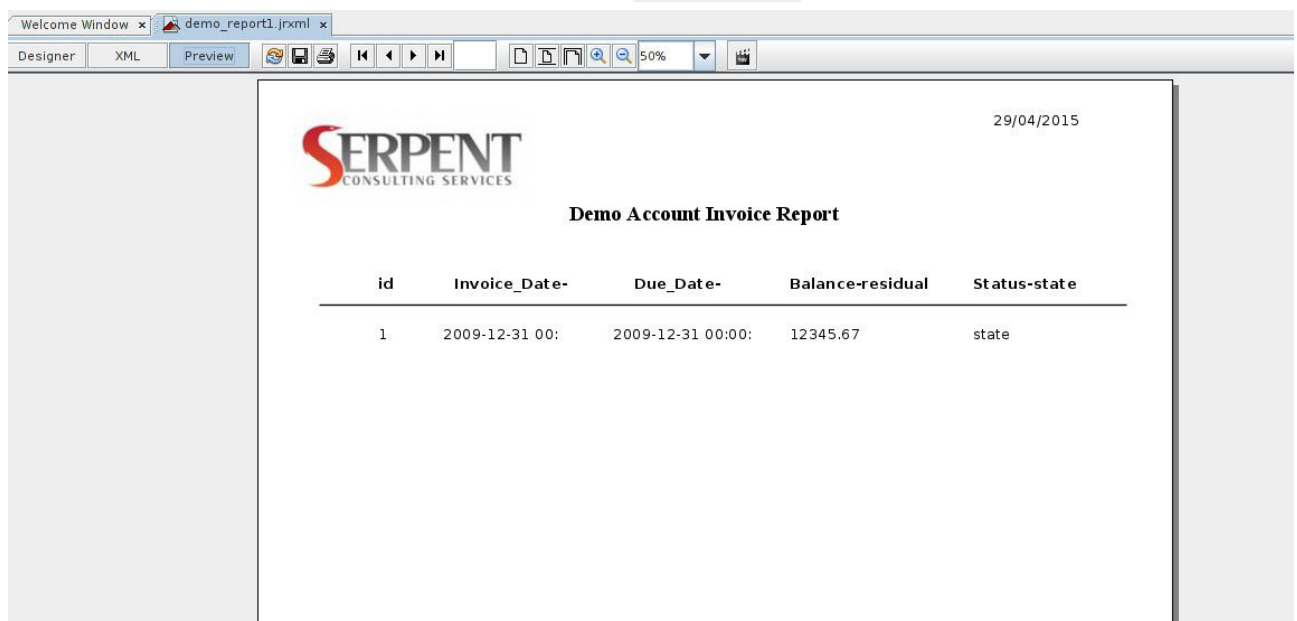
12. Now all the fields have been added. Click 'Ok'

1. Window ---> Palette : this gives all the report elements/ features to enhance report.
2. From the Report Inspector --> Fields will enlist all the selected fields from the account.invoice model
3. Drag and drop the fields to the Detail Area of the report.
4. From the Palette, drag 'static text' to enter the Title of the report and 'Image' element to add company logo or any other image.



13. You can preview the report by clicking on 'Preview'

Preview



The report is ready to be added to Odoo.

14. In Odoo:

Settings --> Technical --> Jasper Reports --> Jasper Reports --> Create

Odoo

Messaging Sales Invoicing Warehouse Human Resources Reporting Settings

Administrator

Jasper Rep... / New

Save or Discard

Name

Report Name

Model

Jasper Output

Save as Attachment Prefix

Reload from Attachment

Files

File Name

Default

Add an item

Groups

Group Name

Add an item

Powered by Odoo

Enter the details:

1. Name: name of the report you want to give, this name will be seen in the Odoo 'Print' drop down
2. Report Name: demo_invoice_report
3. Model: account.invoice

Jasper Rep... / New

Save or Discard

Name

Report Name

Model

Jasper Output

Save as Attachment Prefix

Reload from Attachment

Files

File Name

Default

Add an item

Groups

Group Name

Add an item

4. Files --> Add an item : Here you have select the .jrxml file that has been created by iReport designer.
5. Save

Fig 1. Entered the details

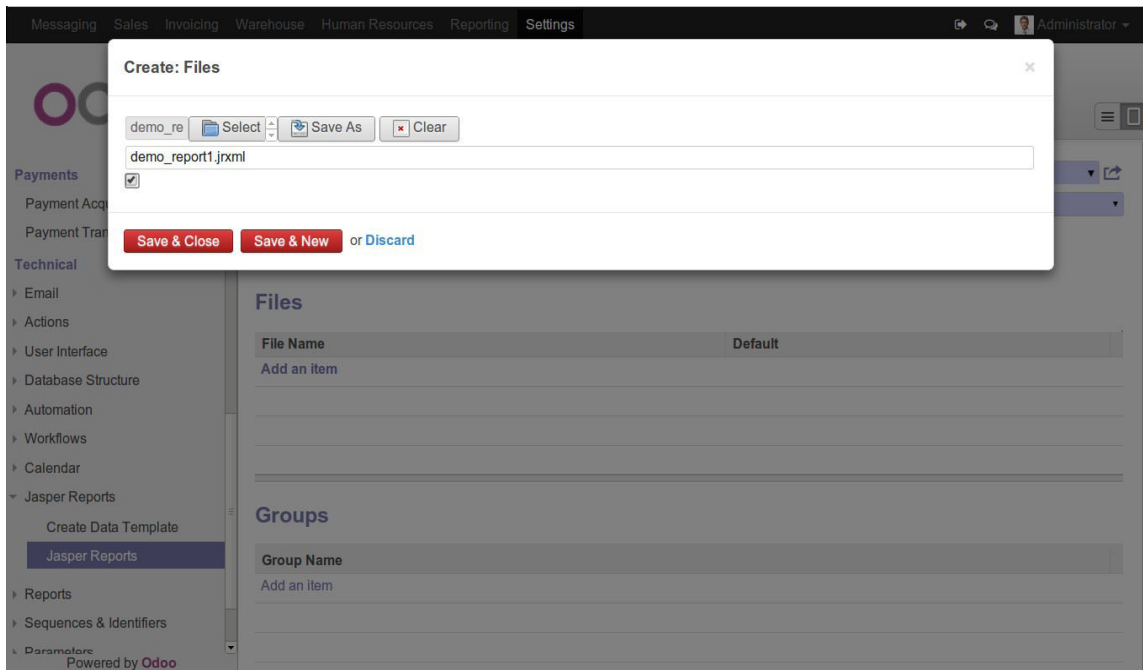


Fig 2. Select the .jrmxl file and 'Save & Close'

15. Now go to 'Invoicing', select the customers in Customer Invoices. In the Print drop down you will find the name of the report we have created.

Odoo Invoicing Customer Invoices

Create or Import

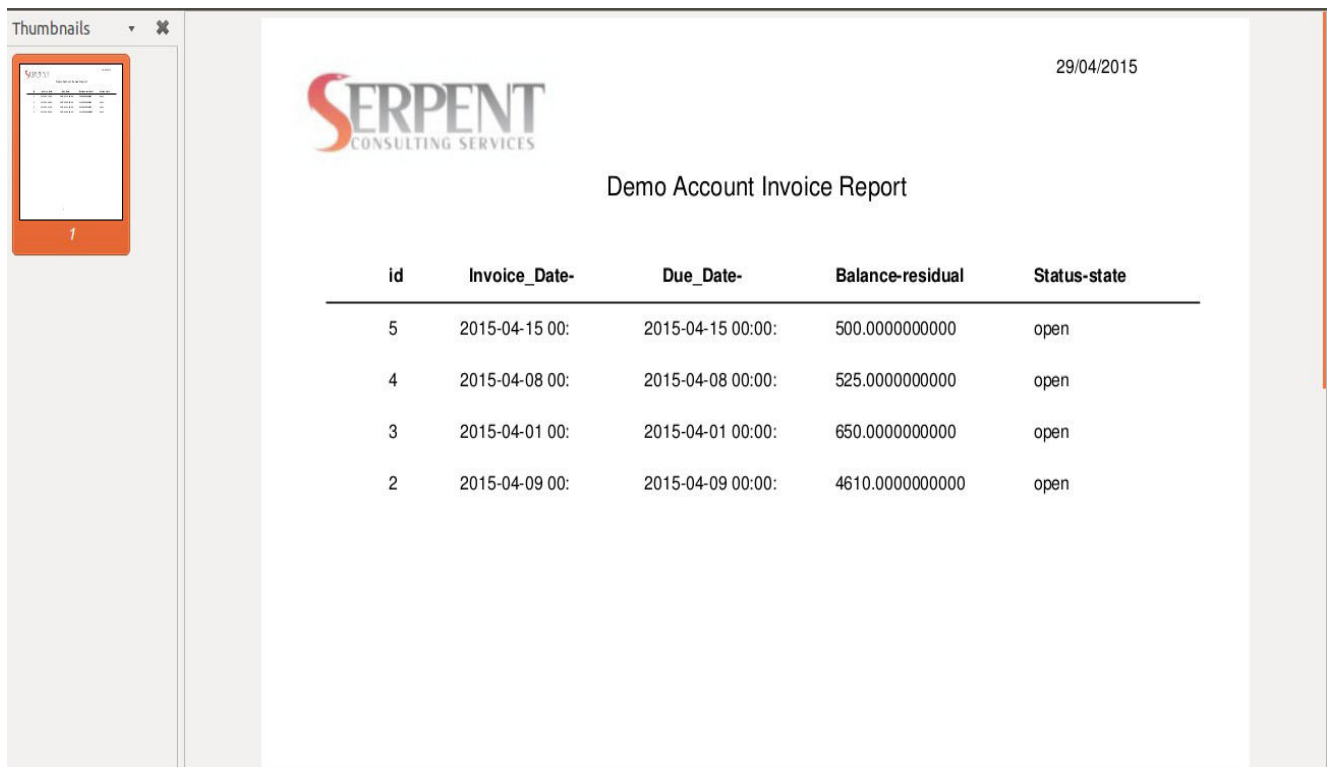
Print More

1-5 of 5

	Customer	Invoice Date	Number	Company	Administrator	Due Date	Source Document	Currency	Balance	Subtotal	Total
<input type="checkbox"/>	Best Designers	04/08/2015	SAJ/2015/005	YourCompany	Administrator	04/08/2015		EUR	525.00	525.00	525.00
<input checked="" type="checkbox"/>	Agrolait	04/15/2015	SAJ/2015/004	YourCompany	Administrator	04/15/2015		EUR	500.00	500.00	500.00
<input checked="" type="checkbox"/>	Agrolait	04/08/2015	SAJ/2015/003	YourCompany	Administrator	04/08/2015		EUR	525.00	525.00	525.00
<input checked="" type="checkbox"/>	Best Designers	04/01/2015	SAJ/2015/002	YourCompany	Administrator	04/01/2015		EUR	650.00	650.00	650.00
<input checked="" type="checkbox"/>	Best Designers	04/09/2015	SAJ/2015/001	YourCompany	Administrator	04/09/2015		EUR	4610.00	4610.00	4610.00
									6285.00	6285.00	6285.00

Print Invoices print_invoice

16. Print the Report



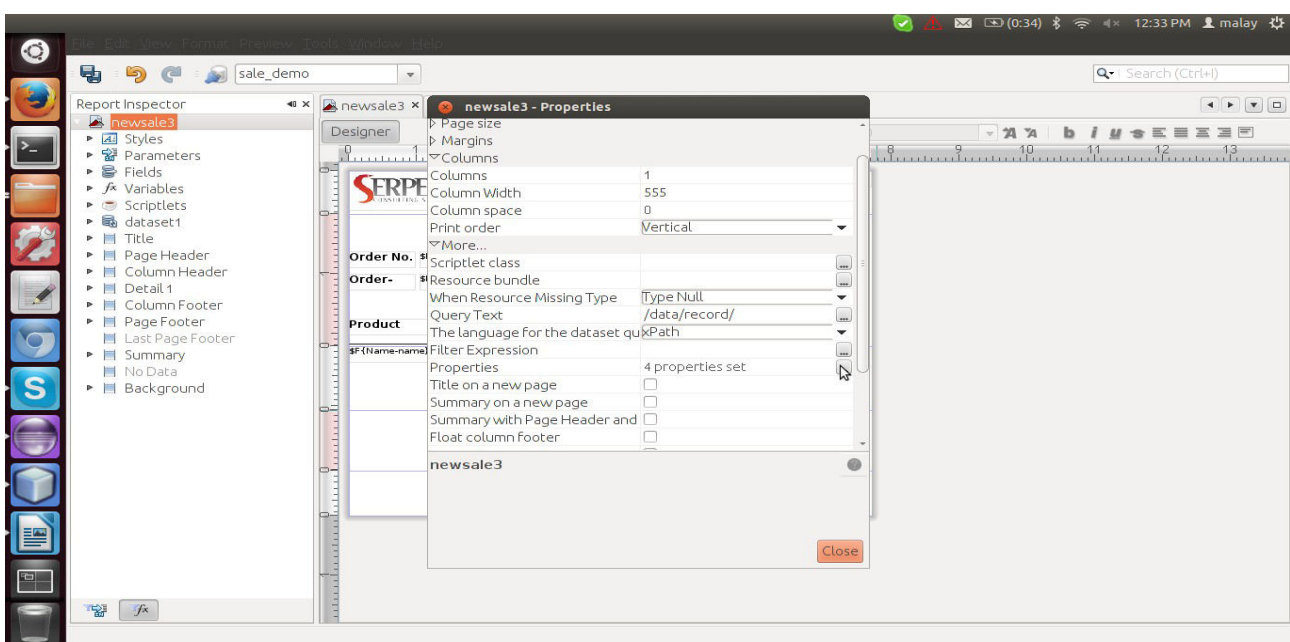
id	Invoice_Date-	Due_Date-	Balance-residual	Status-state
5	2015-04-15 00:	2015-04-15 00:00:	500.0000000000	open
4	2015-04-08 00:	2015-04-08 00:00:	525.0000000000	open
3	2015-04-01 00:	2015-04-01 00:00:	650.0000000000	open
2	2015-04-09 00:	2015-04-09 00:00:	4610.0000000000	open

17 . Now we show how to display many2one and One2many fields in Jasper Reports :

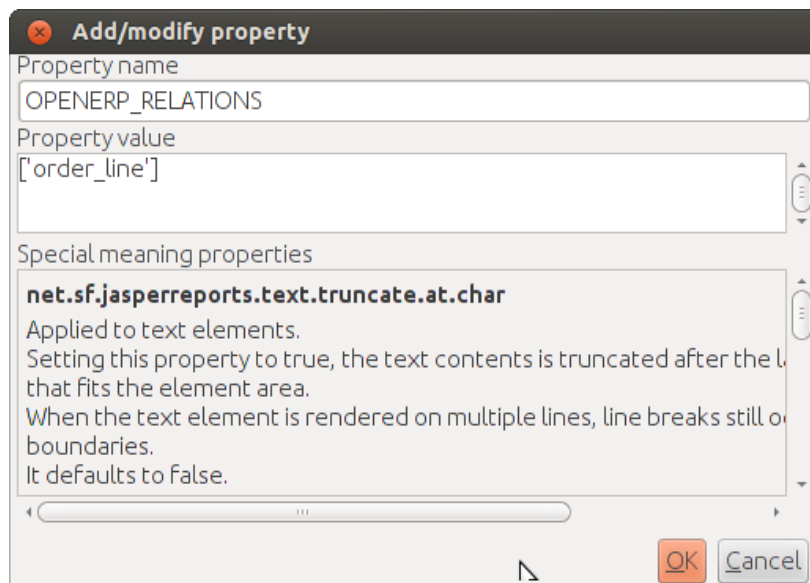
when we create Jasper Template(show step 2) , we set depth = 1 , here we set depth = 3 , Because if we set depth = 1 it takes only first child fields and if we increased depth it increased child hierarchy,
Now go to iReport and show our Report Inspector(left side) , our .jrxml file show

For One2Many :

1. right click on it --> Go to properties-->again properties --> open it



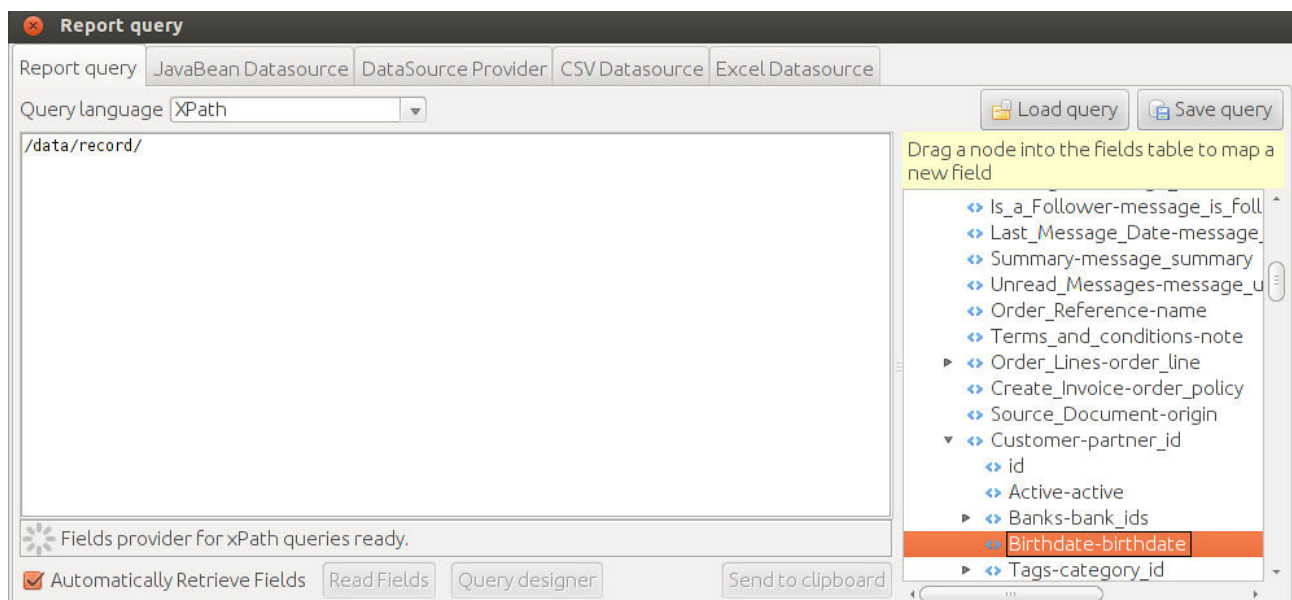
2. Now add a new Properties with :
- property name : OPENERP_RELATIONS
 - property value : ['your one2many field name']



Now we drag and drop one2many fields in our reports.

For Many2one :

For Many2one we drag and drop it's fields into our designing report. For Example , if we wan't to display birthday of my Customer field which is our Many2one field ,so simply i drag birthdat field from my partner_id (Many2one) and drop it into my report.



Normal Issues encountered and Solution:

1). Float Value Format (0.0) in JasperReports :

Now in Jasper report when we use float field in report, than report give us float format like 0.000000. Instead of format 0.00, solution is we change property of that float field from ireport (. jrxml). So follow the steps

1. Go to ireport.
2. Right click on float field and click on edit expression .
3. Now write there
 1. Float.valueOf(\$F{ field name})
 2. for example my float field is {Quantity-product_uom_qty} so i am edit it and write
 1. Float.valueOf(\$F{Quantity-product_uom_qty})

If above not worked so put in properties

1. text field properties -> Pattern -> custom format is ###0.00

2). Jasper Reports With Workers (multi process) :

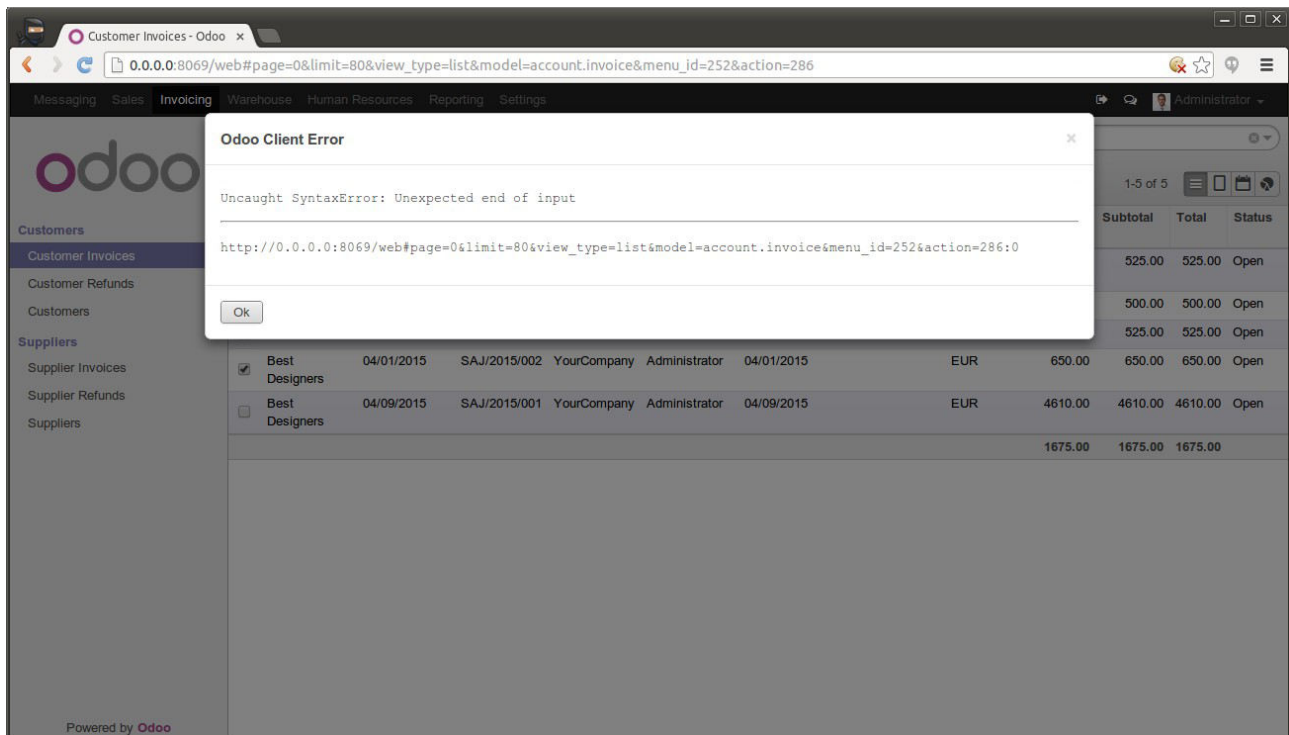
When you wan't to use –workers (multi process) in jasper reports in V8 , then you faces errors like “ EXCEPTION: [Errno 111] Connection refused (111, 'Connection refused') ” or “ Exception: bus.Bus unavailable “ .

Solution:

At first install **psycogreen** python library. And after that uninstall **im_chat** module from your database.It's successful worked with workers.

Issues/ Errors encountered and Solution:

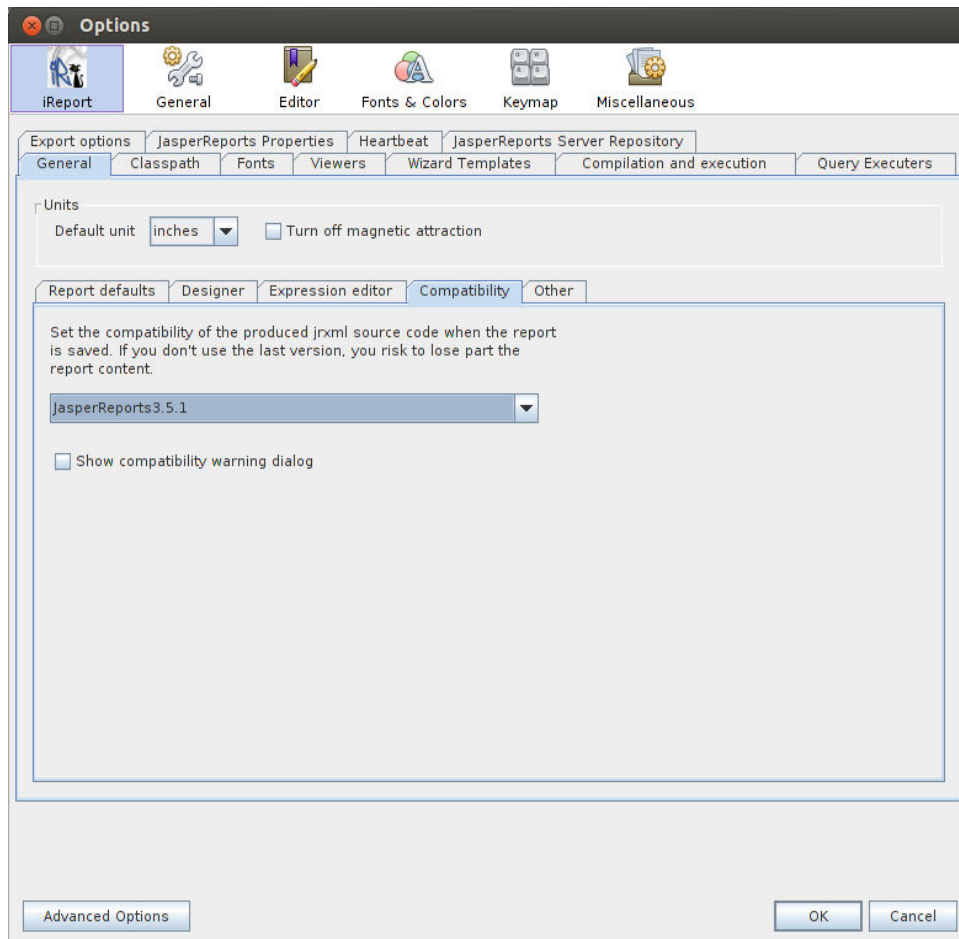
1. Attribute 'uuid' is not allowed to appear in element 'jasperReport'



```
request.session.db, request.session.uid, request.session.password, report_id)
File "/home/shruti/workspace/odoo/openerp/http.py", line 807, in proxy_method
result = dispatch_rpc(self.service_name, method, args)
File "/home/shruti/workspace/odoo/openerp/http.py", line 100, in dispatch_rpc
result = dispatch(method, params)
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 34, in dispatch
res = fn(db, uid, *params)
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 141, in exp_report_get
return _check_report(report_id)
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 119, in _check_report
raise openerp.osv.orm.exception(exc.message, exc.traceback)
except orm: (u'Report Error', u'Failed to invoke method execute in class com.nantic.jasperreports.JasperServer: org.xml.sax.SAXParseException;
lineNumber: 2; columnNumber: 439; cvc-complex-type.3.2.2: Attribute 'uuid' is not allowed to appear in element 'jasperReport'.")
2015-04-29 06:50:19,629 7257 WARNING demo_fin openerp.http: <function openerp.addons.web.controllers.main.index> returns an invalid response ty
pe for an http request
2015-04-29 06:50:19,629 7257 INFO demo_fin werkzeug: 127.0.0.1 - - [29/Apr/2015 06:50:19] "POST /web/report HTTP/1.1" 500 -
2015-04-29 06:51:07,065 7257 INFO demo_fin werkzeug: 127.0.0.1 - - [29/Apr/2015 06:51:07] "POST /longpolling/poll HTTP/1.1" 200 -
```

SOLUTION:

1. Open the .jrxml file created and remove uuid attributes.
2. Other solution is simple and effective.
Go to the iReport Designer --> 'Tools' --> 'Options'
General tab --> Compatibility --> In the drop down select 'JasperReports 3.5.1'



Now this will produce .jrxml files without uuid attribute. Issue solved.

2. GroovyEvaluator Error

```
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 34, in dispatch
res = fn(db, uid, *params)
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 141, in exp_report_get
return _check_report(report_id)
File "/home/shruti/workspace/odoo/openerp/service/report.py", line 119, in _check_report
raise openerp.osv.orm.exc.orm(exc.message, exc.traceback)
except orm: (u'Report Error', u'Failed to invoke method execute in class com.nantic.jasperreports.JasperServer: net.sf.jasperreports.compilers/
GroovyEvaluator')
2015-04-29 06:28:47,829 3955 WARNING demo_fin openerp.http: <function openerp.addons.web.controllers.main.index> returns an invalid response ty
pe for an http request
```

SOLUTION:

Remove the language = 'groovy' in the .jrxml file

```
version="1.0" encoding="UTF-8"?>
erReport xmlns="http://jasperreports.sourceforge.net/jasperreports"
chemaLocation="http://jasperreports.sourceforge.net/jasperreports.xsd"
"demo_report1" language="groovy" pageWidth="612" |
mMargin="20">
  <property name="ireport.zoom" value="1.0"/>
  <property name="ireport.x" value="0"/>
  <property name="ireport.y" value="0"/>
  <queryString language="xPath">
    <![CDATA[/data/record]]>
```

3. Permission denied error

```
File "/home/shruti/workspace/odoo/openerp/api.py", line 237, in wrapper
    return old_api(self, *args, **kwargs)
File "/home/shruti/workspace/odoo/addons/jasper_reports/report_xml.py", line 114, in update
    path = self.save_file(fileName, content)
File "/home/shruti/workspace/odoo/addons/jasper_reports/report_xml.py", line 149, in save_file
    f = open(path, 'wb+')
IOError: [Errno 13] Permission denied: u'/home/shruti/workspace/odoo/addons/jasper_reports/custom_reports/de
mo_report1.jrxml'
```

SOLUTION:

Give executable permission to the .jasper and .jrxml files created.

Thank you

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