



CubiReportApplication

Cubi Report Application - Introduction

Featured

Updated Mar 17, 2014 by [rockys...@gmail.com](#)

Cubi Report

Cubi Report is an open source Report, Business Intelligent (BI) application released under GPL V3 license.

Installation

Download the source from SVN. <https://openbiz-cubi.googlecode.com/svn/trunk/apps/report>

As Report is a Cubi application, you can copy the report folder into cubi/modules/. The load Report into Cubi platform with command

```
# cd cubi/bin/tool/  
# php load_module.php report
```

Launch Cubi in your browser, you should see a new tab called "Report" in the application tab area. Click "Report" tab to start exploring Report application.

Cubi Report Features

With Cubi Report, you can

- Generate reports on live databases
- Manipulate data by applying custom query, sort and group by
- Present data in data grid and charts
- Apply filters on report data
- Summarize data on pivot table page
- Organize reports in folders
- Manage user access to reports

Report Page

Report Page Layout A typical report page includes

- left navigation tree
- report filter form for applying search criteria
- data grid(s)
- data chart(s)

Report Folders

- Sample Reports
 - Custom report
 - Pre-built report
 - Pivot table

Navigation Tree

Sample Sale Filter

Filter Form

Year

Sample Sales West Table

Data Grid

The table lists sale revenue of west region

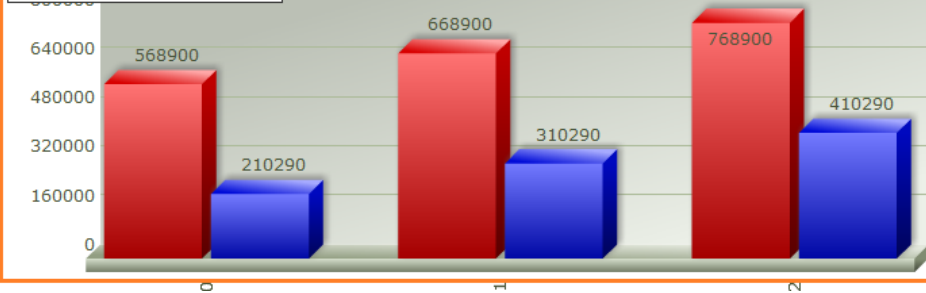
Name	Division	Product	Year	Revenue	Cost	cost X
2000 West HDTV Sales	West	HDTV	2000	568900	210290	210290
2001 West HDTV Sales	West	HDTV	2001	668900	310290	310290
2002 West HDTV Sales	West	HDTV	2002	768900	410290	410290

Show Rows 1 of 1

Sample Sale West Chart

Data Chart

FusionCharts v3.2 Evaluation



Sample Sale Filter

Year

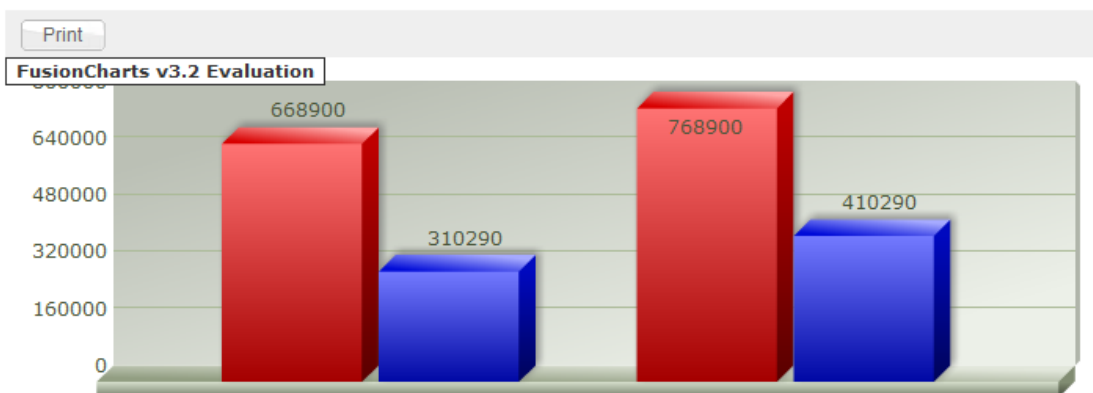
Sample Sales West Table

The table lists sale revenue of west region

Name	Division	Product	Year	Revenue	Cost	cost X
2001 West HDTV Sales	West	HDTV	2001	668900	310290	310290
2002 West HDTV Sales	West	HDTV	2002	768900	410290	410290

Show Rows 1 of 1

Sample Sale West Chart



Report Page - Pivot Table

User can click "Set Pivot" button to configure pivot table

Configure Pivot Table

Column Fields

Row Fields

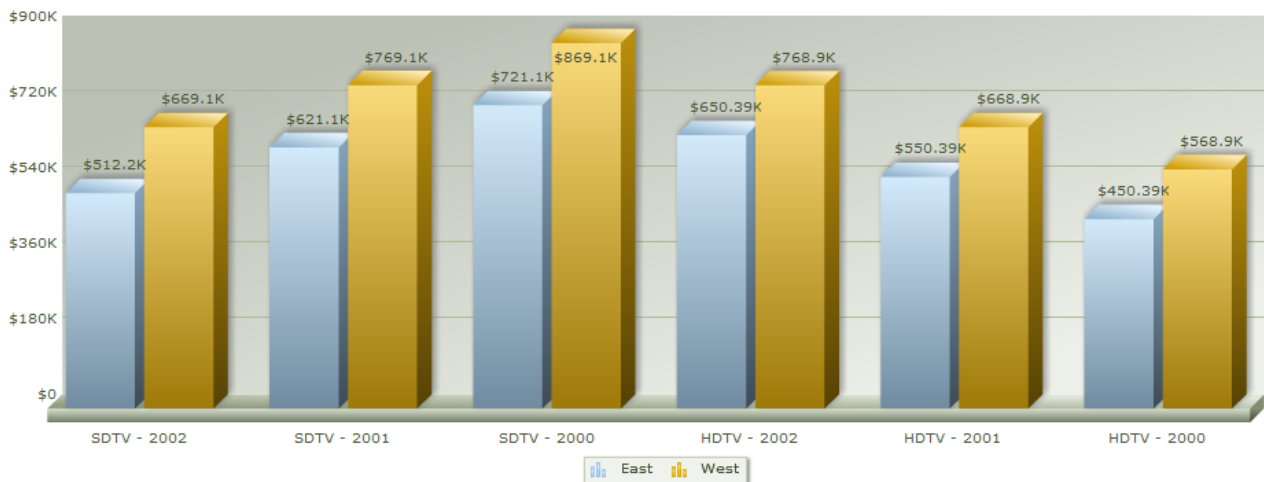
Data Field

Click "Go Pivot" to enter interactive pivot page. User can drag the pivot column or row title to rotate pivot on the fly.

SUM(Revenue)		Division	East	West	TOTAL
Product	Year				
HDTV	2000		450390.00	568900.00	1019290.00
	2001		550390.00	668900.00	1219290.00
	2002		650390.00	768900.00	1419290.00
Total for HDTV			1651170.00	2006700.00	3657870.00
SDTV	2000		721100.00	869100.00	1590200.00
	2001		621100.00	769100.00	1390200.00
	2002		512200.00	669100.00	1181300.00
Total for SDTV			1854400.00	2307300.00	4161700.00
TOTAL			3505570.00	4314000.00	7819570.00

FusionCharts v3.2 Evaluation

Pivot Table Chart

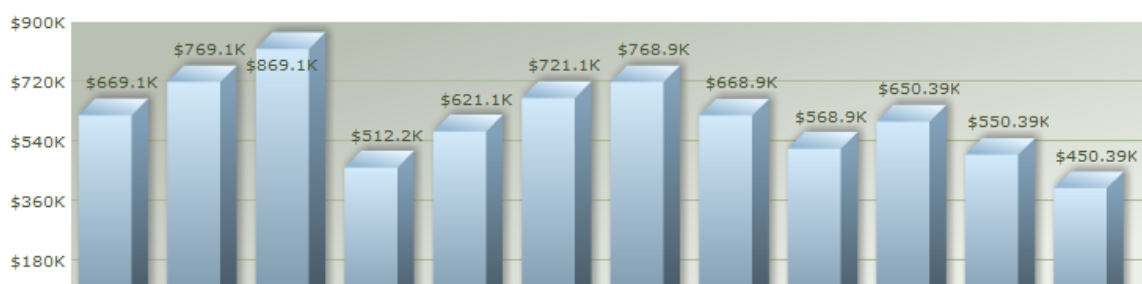


Rotate pivot by drag-n-drop column field to row

Product	Division	Year	SUM(Revenue)
HDTV	East	2000	450390.00
		2001	550390.00
		2002	650390.00
	Total for East		1651170.00
	West	2000	568900.00
		2001	668900.00
		2002	768900.00
	Total for West		2006700.00
Total for HDTV			3657870.00
SDTV	East	2000	721100.00
		2001	621100.00
		2002	512200.00
	Total for East		1854400.00
	West	2000	869100.00
		2001	769100.00
		2002	669100.00
	Total for West		2307300.00
Total for SDTV			4161700.00
TOTAL			7819570.00

FusionCharts v3.2 Evaluation

Pivot Table Chart



Managing Reports

Creating Reports

Steps to create a custom report

- Create Data Source
 - Create database connection
 - Map table to data table
 - Map table columns to fields
- Create Report
 - Create report page
 - Create report forms (data, chart or filter forms)
 - Create form elements (columns, chart series or inputs)

Managing Reports - Databases

Report database list

Report Menu

Report Admin

Manage Reports

Manage Databases


Manage Tables

Manage Color

Manage Map

My Report

Sample Report

 **Data Source**

Each data source is a database connection for the Reporting System, It is also a data provider for Data Tables.

+ Add

Edit

Delete

Go

ID	Name	Server	Driver	Database	Username
1	Sample sale db	localhost	PDO_MYSQL	cubi_cn_dev	root

Go to Page

1

Show Rows

10

1 of 1

Edit report database



Managing Reports - Data Tables and Fields

Report table list

Report Menu

Report Admin

Manage Reports

Manage Databases


Manage Tables

Manage Color

Manage Map

My Report

Sample Report

 **Data Table : Sample sale db**

Below list is the data tables inside of selected data source.
In the reporting system each Data Object is based on a data table.

+ Add

Edit

Delete

All databases

Go

ID	Name	Database	Table
1	Sales table	cubi_cn_dev	report_sample_sales
2	Asset	cubi_cn_dev	asset

Go to Page

1

Show Rows

10

1 of 1

Report table detail. If user clicks on "Populate Fields" button, all table columns will loaded as report table fields



Data Table #1

Below list is the data tables inside of selected data source.
In the reporting system each Data Object is based on a data table.

Name Sales table

General

Miscellaneous

Table report_sample_sales

Database cubi_cn_dev

Search Rule

Sort Rule

Group By

Edit

Delete

Populate Fields

Back



Data Table Field

Below list is all data fields inside selected data object

User can add join from another table to the main table and add column from join table

Add join table



Data Table Field

Below list is all data fields inside selected data object.

A data field of object is default mapping to a table column or specified SQL expression.

Add

Edit

Delete

Go

<div><div></div><div></div><div></div></div>	<div>Id</div>	<div>Name</div>	<div>Table</div>	<div>Join</div>	<div>Column</div>	<div>Type</div>	<div>Format</div>
<div><div></div><div></div><div></div></div>	<div>1</div>	<div>Id</div>	<div>report_sample_sales</div>		<div>id</div>	<div>Number</div>	
<div><div></div><div></div><div></div></div>	<div>2</div>	<div>Name</div>	<div>report_sample_sales</div>		<div>name</div>	<div>Text</div>	
<div><div></div><div></div><div></div></div>	<div>3</div>	<div>Division</div>	<div>report_sample_sales</div>		<div>division</div>	<div>Text</div>	
<div><div></div><div></div><div></div></div>	<div>4</div>	<div>Product</div>	<div>report_sample_sales</div>		<div>product</div>	<div>Text</div>	
<div><div></div><div></div><div></div></div>	<div>5</div>	<div>Year</div>	<div>report_sample_sales</div>		<div>year</div>	<div>Text</div>	
<div><div></div><div></div><div></div></div>	<div>6</div>	<div>Revenue</div>	<div>report_sample_sales</div>		<div>revenue</div>	<div>Number</div>	
<div><div></div><div></div><div></div></div>	<div>7</div>	<div>Cost</div>	<div>report_sample_sales</div>		<div>cost</div>	<div>Number</div>	

Go to Page

1

Show Rows

10

1 of 1

New Table Join

Name	<input type="text" value="New Table Join Name"/>
Table to join	<input type="text" value="Select a table to join"/>
Join Column	<input type="text" value="* Foreign key column in join table"/>
Join Type	<input type="text" value="Inner Join"/>
Reference Column	<input type="text" value="id (int) * Key column in base table"/>
Reference Join	<input type="text" value="Select a reference join * Used in cascade join"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Add join field from join table



New Data Field

Below list is all data fields inside selected data object.

A data field of object is default mapping to a table column or specified SQL expression.

Name	<input type="text" value="product_sku"/>
DO id	<input type="text" value="1"/>
Join	<input type="text" value="join_production"/>
Join Column	<input type="text" value="sku (varchar)"/>
Type	<input type="text" value="Text"/>
Format	<input type="text" value=""/>
SQL Expression	<input type="text" value=""/>
Value	<input type="text" value=""/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Managing Reports - Report Pages

After configure report database and tables, Report page can be setup on top of the data layer

Report page list

Report Menu

Report Admin

Manage Reports

Manage Databases


Manage Tables

Manage Color

Manage Map


My Report


Sample Report




Report Page




Report Page is a container of report forms and charts.
Each page could contains multi form and charts.

 Add


 Edit

 Delete

Go

	ID	Title	Group	Description	Ordering	View
	1	Sample Sales West	Development		10	

Report page edit. Group is used for access control



Edit Report #1

Report Page is a container of report forms and charts.
Each page could contains multi form and charts.

Title

Sample Sales West

General

Data Source

Group

Development

Description

If no group is given, everyone can access
If group is given, only user in the same
group can access thie report

A report page may contain multiple report forms. Each form is a UI block to present data. There are 3 form types:

- Filter form for user to enter query
- Data grid form
- Data chart form

Managing Reports - Report Forms

Report page forms



User can edit report form with four tabs



Edit Report Form #2

Report Form could be chart form or data tables for contains report data.
Each form has to be mounted onto report pages.

Title

Sample Sale West Chart

General

Data Source

Form Type

Chart Parameters

Description

Report Page

Sample Sales West

Sort Order

15



Edit Report Form #2

Report Form could be chart form or data tables for contains report data.
Each form has to be mounted onto report pages.

Title

Sample Sale West Chart

General

Data Source

Form Type

Chart Parameters

Database

1

Data Table

Sales table

Save

Cancel



Edit Report Form #2

Report Form could be chart form or data tables for contains report data.
Each form has to be mounted onto report pages.

Title

Sample Sale West Chart

General	Data Source	Form Type	Chart Parameters
---------	-------------	-----------	------------------

Form Type

Chart Form

Fix Search Rule

[Division]='west' and [Product]

Default Search

Rule
Enable Pivot Table

☐

Pivot Records

1000

Limit
Show Label

☒

Config the data names will be displayed

Show Value

☒

Config the data value will be displayed

Hover Caption

☒

Show/hide hover caption box

Chart Width

700

Chart Height

300



Edit Report Form #2

Report Form could be chart form or data tables for contains report data.
Each form has to be mounted onto report pages.

Title

Sample Sale West Chart

General	Data Source	Form Type	Chart Parameters
---------	-------------	-----------	------------------

SubType

Multi Series Column 3D

Animation

☒

Set whether the animation is to be played

Show Limit

☒

Show/hide the chart limit textboxes

Rotate Names

☒

Category name text boxes would be rotated or not

Y Min Value

Managing Reports - Elements

In the report form detail page, user can click "Load Forms" to create data grid form with elements populated from table fields automatically



Report Form #1

Report Form could be chart form or data tables for contains report data.
Each form has to be mounted onto report pages.

Title

Sample Sales West Table

General	Form Type	Chart Parameters	Miscellaneous
Description	The table lists sale revenue of west region		
Report Page	Sample Sales West		
Sort Order	10		
Data Table	Sales table		

[Add](#) [Edit](#) [Delete](#) [Load Elems](#) [Back](#)



Report Form Elements

Report Element defines data mapping from data source to report forms.
Each element could be a dataset for chart axes or data tables.

	ID	Label	Field Name	Class	Ordering
	1	Name	Name	ColumnText	10
	2	Division	Division	ColumnText	20
	3	Product	Product	ColumnText	30
	4	Year	Year	ColumnText	40

Manage Report Tree

Report Map provides tree structure to organize report pages.

Report Menu

Report Admin

Manage Reports

Manage Databases

Manage Tables

Manage Color

Manage Map

My Report

Sample Report

Help

Help Center

Manage Menu by List

Report Map Management by list view,
The sitemap stucture in this view is similar to tranditional FTP way to manage a directory tree.

Root > Sample Reports

Add

Edit

Copy

Delete

Go

Ex	Name	Title	Group	Published	Ordering
	Custom report	Custom report	Development		10
	Pre-built report	Pre-built report	Development		10
	Pivot table	Pivot table	Development		10

Go to Page

1

Show Rows

10

1 of 1

User can edit a node in the tree and set group for access control



Edit Menu Item

Report Map module manages the website menu system.

Parent Id: +Sample Reports ▼

Name: Custom report

Title: Custom report

Group: Development ▼ **The report menu item is visible to user in the same group**

Link: /report/report/1

Status: ☐ Full Control ☐ Editable ☒ Visible ☐ Private

Ordering: 10 ▼

Save Cancel

My Report

Once report pages are created and mapped properly in report tree, user can see his/her reports that are visible to the user on My report page.

Report Menu

- Report Admin
- My Report ▼
- My Reports
- My Reports Map
- Sample Report

Help Help Center

Go

Report Map

List all my reports in tree

Report list

ID	Name	Title	Link	Group
1	Sample Reports	+ Sample Reports		Development
2	Custom report	+ - - - Custom report	/report/report/1	Development
3	Pre-built report	+ - - - Pre-built report	/report/sample_sales_report	Development
4	Pivot table	+ - - - Pivot table	/report/sample_pivot_table	Development

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Normal View for report

The above section introduce you how to create report with Report Admin. User does not need to write code to generate reports. On the other hand, developers can write normal Cubi views with report layout and pivot layout. These views have their own xml metadata files and own urls.

Sample report view can be found at report/view/SampleSalesReportView.xml

```
<?xml version="1.0" standalone="no"?>
<EasyView Name="SampleSalesReportView" Description="Sample sales report" Class="EasyView" Tab="" TemplateEngine="Smarty" 1
  <FormReferences>
    <Reference Name="report.sample.form.SalesListGrid"/>
    <Reference Name="report.sample.form.SalesColumnChart"/>
    <Reference Name="report.sample.form.SalesColumnChart2"/>
  </FormReferences>
</EasyView>
```

Report Folders

- Sample Reports
 - Custom report
 - Pre-built report**
 - Pivot table

Sales of TVs - west division

Name	Division	Product	Year	Revenue	Cost
2000 West HDTV Sales	West	HDTV	2000	568900	210290
2000 West SDTV Sales	West	SDTV	2000	869100	530400
2001 West HDTV Sales	West	HDTV	2001	668900	310290
2001 West SDTV Sales	West	SDTV	2001	769100	430400
2002 West HDTV Sales	West	HDTV	2002	768900	410290
2002 West SDTV Sales	West	SDTV	2002	669100	330400

Also pivot table is a special form with example at `report/view/SamplePivotTableView.xml`

```
<?xml version="1.0" standalone="no"?>
<EasyView Name="SamplePivotTableView" Description="report.sample" Class="Easyview" Tab="" TemplateEngine="Smarty" Template=
  <FormReferences>
    <Reference Name="report.sample.form.SamplePivotTableForm"/>
  </FormReferences>
</EasyView>
```

The form xml is at `/report/sample/form/SamplePivotTableForm.xml`. Please notice a new attribute "PivotType" is added in Form Element definition.

```
<EasyForm Name="SamplePivotTableForm" Class="common.form.PivotTableForm" FormType="" jsClass="Openbiz.TableForm" Title="Sales of TVs"
  <DataPanel>
    <Element Name="fld_division" Class="common.element.PivotColumnText" FieldName="division" Label="Division" PivotType="Data" />
    <Element Name="fld_product" Class="common.element.PivotColumnText" FieldName="product" Label="Product" PivotType="Data" />
    <Element Name="fld_year" Class="common.element.PivotColumnText" FieldName="year" Label="Year" PivotType="Row" />
    <Element Name="fld_revenue" Class="common.element.PivotColumnText" FieldName="revenue" Label="Revenue" PivotType="Data" />
    <Element Name="fld_cost" Class="common.element.PivotColumnText" FieldName="cost" Label="Cost" PivotType="Data" />
  </DataPanel>
...

```

Report Folders

- Sample Reports
 - Custom report
 - Pre-built report
 - Pivot table**

Sales of TVs

		West				East			
		HDTV		SDTV		HDTV		SDTV	
id	Year	revenue	cost	revenue	cost	revenue	cost	revenue	cost
1	2000	568900	210290	869100	530400	450390	190380	721100	411040
2	2001	668900	310290	769100	430400	550390	290380	621100	311040
3	2002	768900	410290			650390	390380		
4	TOT	2006700	930870	1638200	960800	1651170	871140	1342200	722080

Comment by project member rockys...@gmail.com, Feb 5, 2012

Cubi report source can be found at <https://openbiz-cubi.googlecode.com/svn/trunk/apps/report>

Comment by jjashun...@gmail.com, Jul 3, 2012

The Cubi platform 3.0 does not include the Cubi Report Package yet. How can i get it?

Comment by ranj...@smartcommercesolutions.in, Jul 8, 2013

where can i find the cubi report package for cubi 3.0.9

Comment by project member [ro...@openbiz.me](#), Oct 15, 2013

Report is in the source code <http://code.google.com/p/openbiz-cubi/source/browse/#svn%2Ftrunk%2Fapps%2Freport>

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