Vanilla

BiProfiler

Profiling package

Charles Martin and Patrick Beaucamp
BPM Conseil
Contact : charles.martin@bpm-conseil.com, patrick.beaucamp@bpm-conseil.com

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4.0 Version

Summary

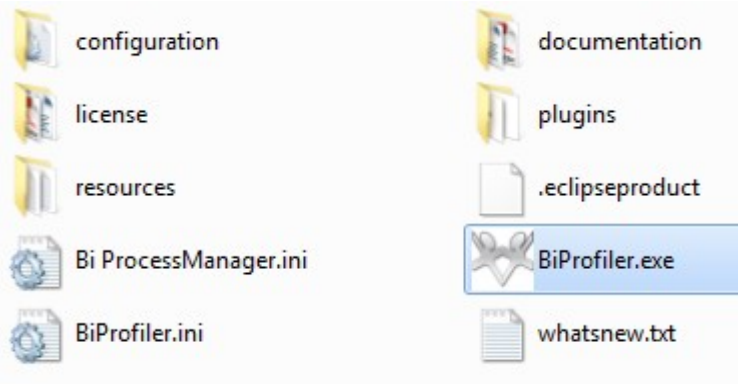
Introduction

The BiProfiler package offers interface for profiling manipulations about your datasources defined in Vanilla repositories.

BiProfiler Package

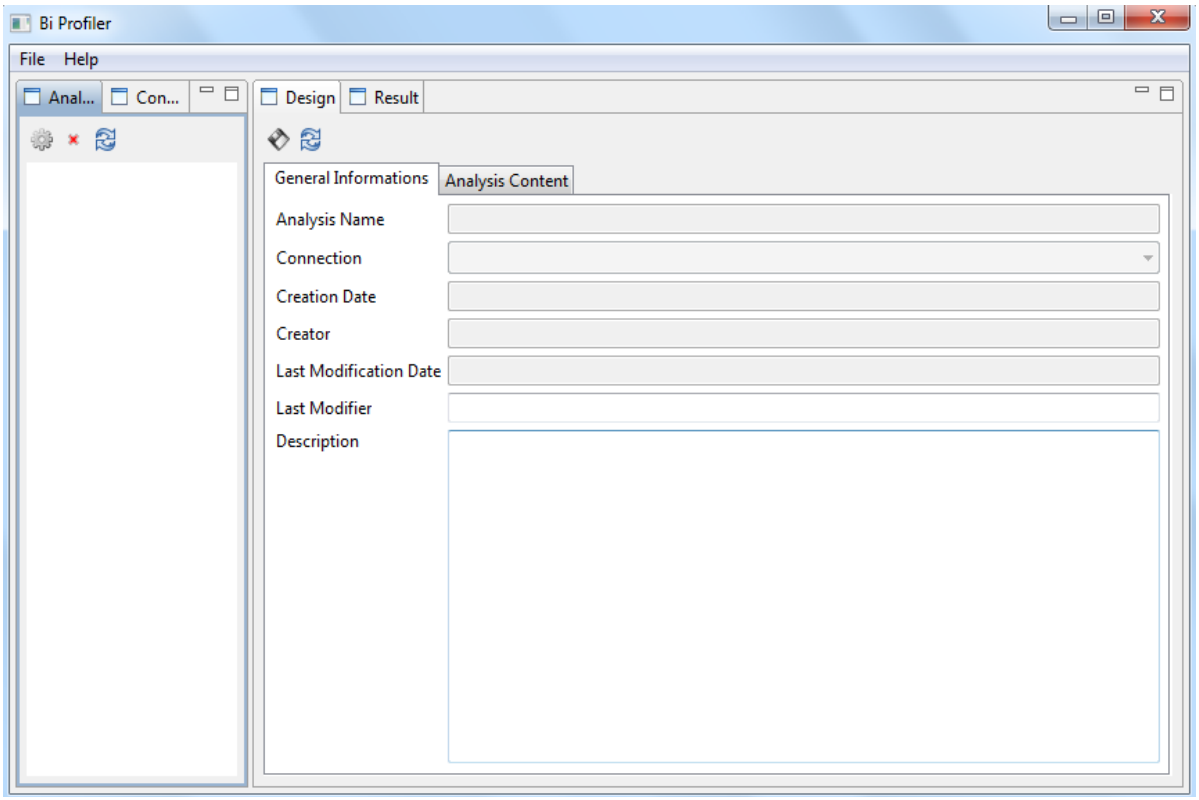
Once donwload :

- Unzip the BiProfiler package in a directory whose name do not contain a space character
- Run BiProfiler.exe



Main Frame

The main frame of the BiProfiler package is the following one :



The functions and manipulations are explained and detailed in this document.

About this documentation

This documentation is about the BiProfiler package (version 4.0, released January 2012).

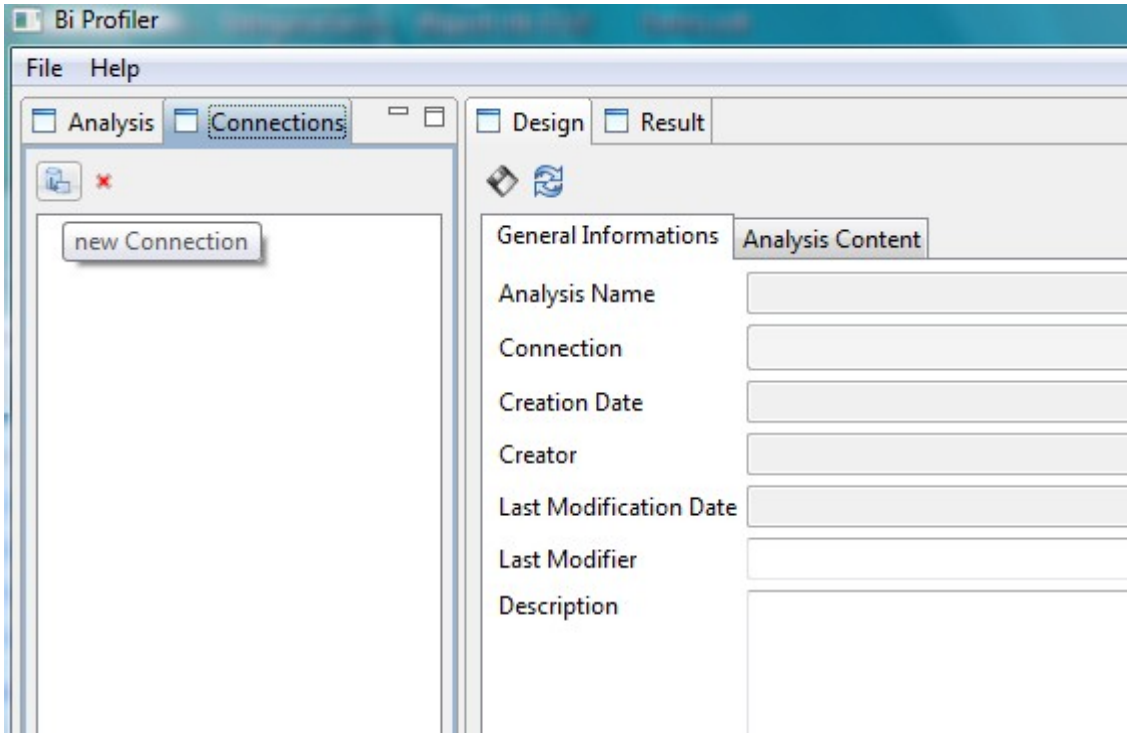
It describes the main functions and general use of the BiProfiler package and puts aside minor bugs.

Start with BiProfiler

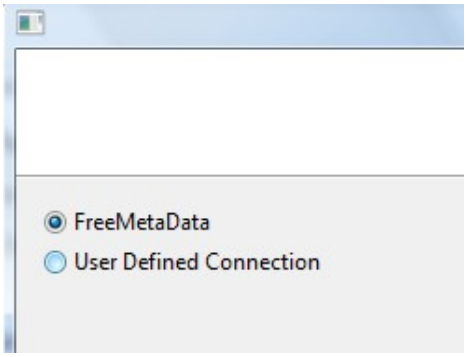
Connection definition

The first step to design an Analysis is to create a datasource.
The DataSource can be a native JDBC connection or a FMDT document stored in a Vanilla repository platform.

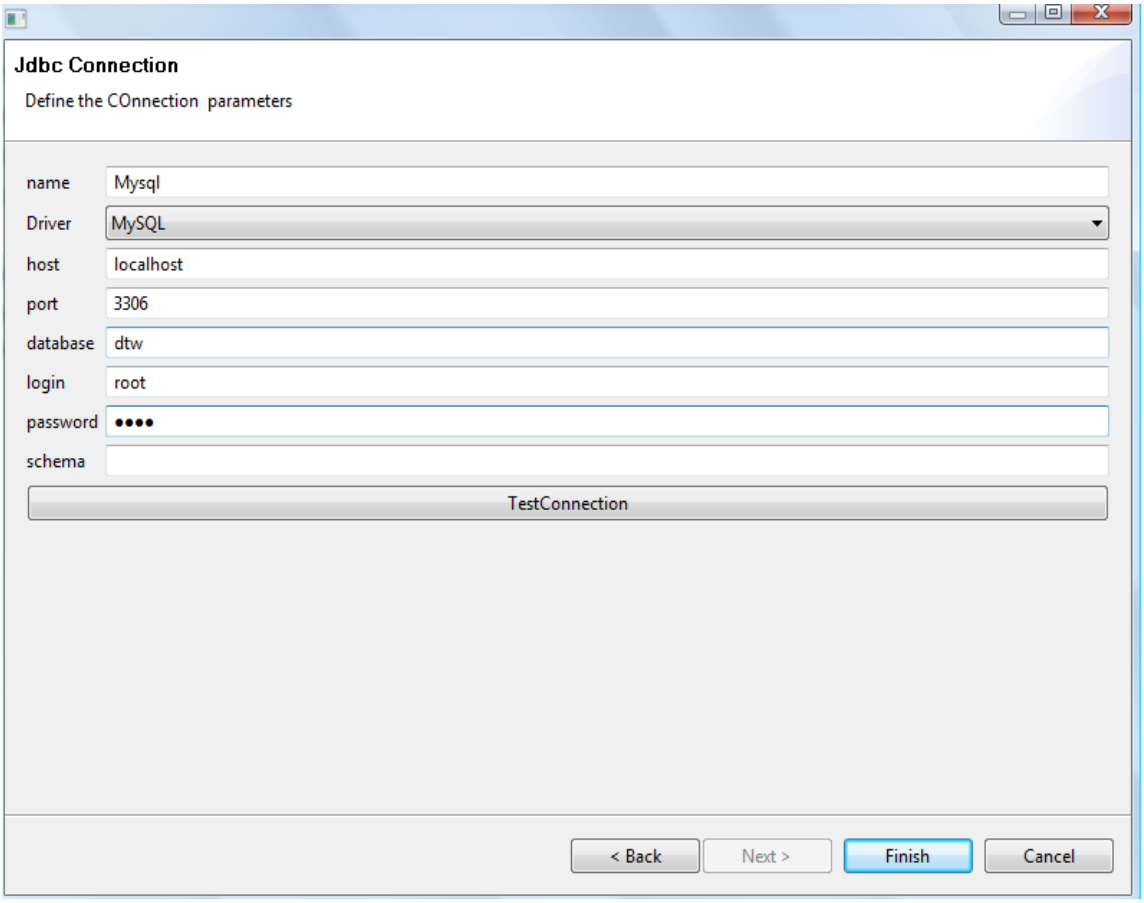
You just have to click on the “new Connection” button to launch the Connection Wizard.



Choose the datasource type :



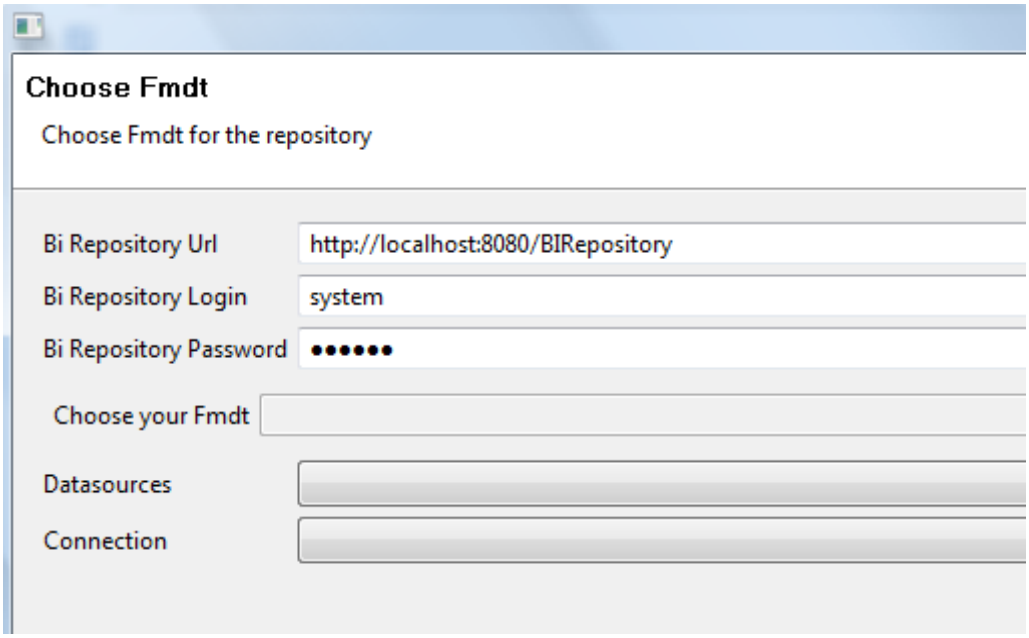
Settings for JDBC Connection



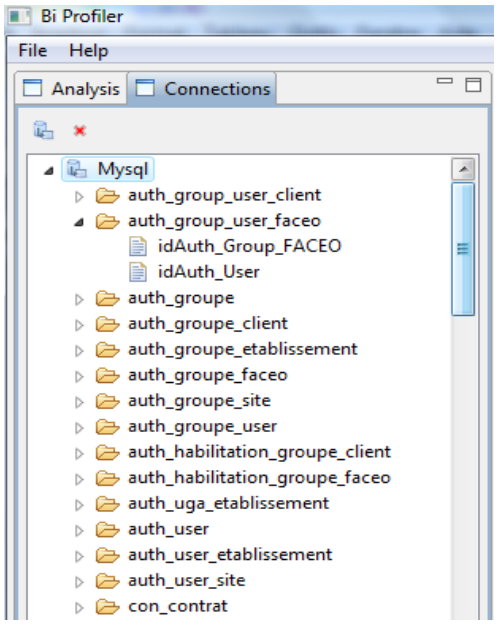
Setting for FMDT Connection

You just have to define the URL connection to your vanilla repository. Then select the FMDT that contains the datasource you want to analyse.

Once the model is loaded, you have to choose which datasource inside the FMDT you want to use, and its connection.

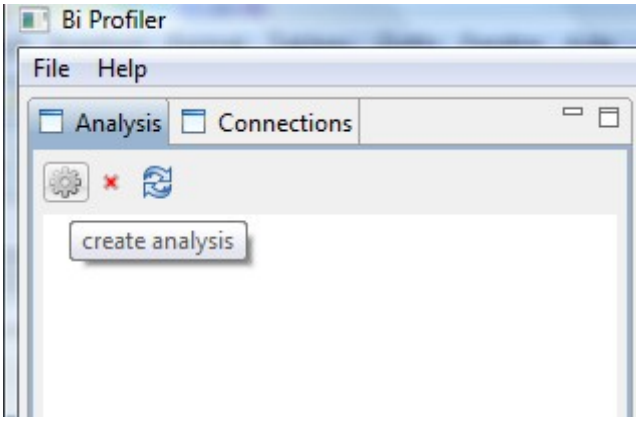


Once the connection is created, we can see in the Connection panel the connection and all the tables and columns that are inside.

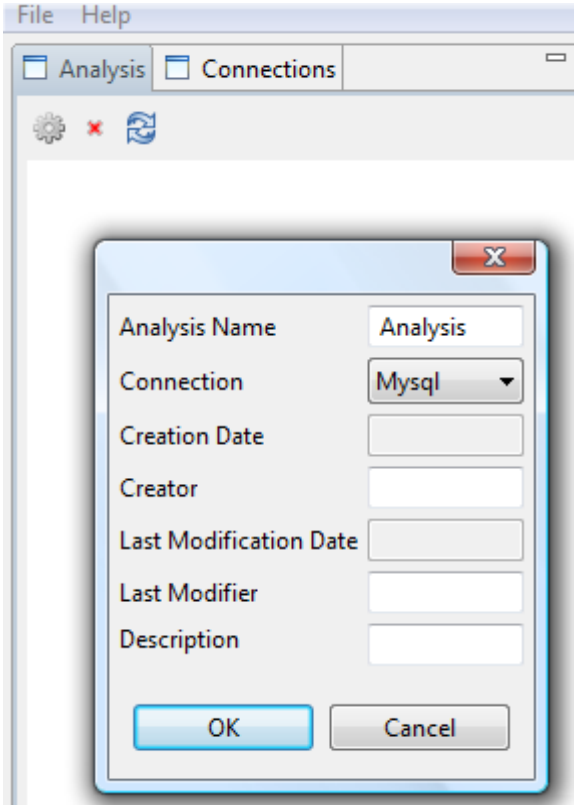


Analysis creation

The second step is now to create an Analysis from the Analysis panel.



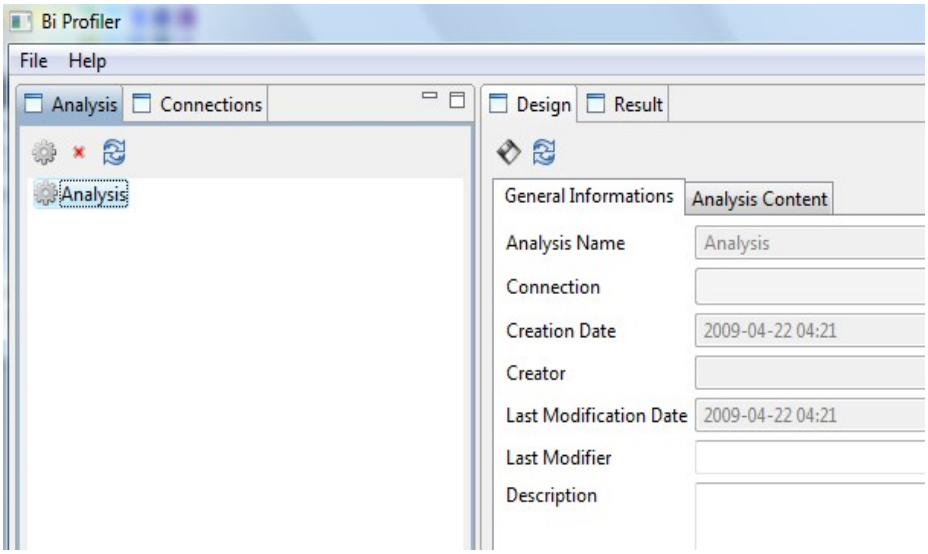
Just click on the “create Analysis” button.



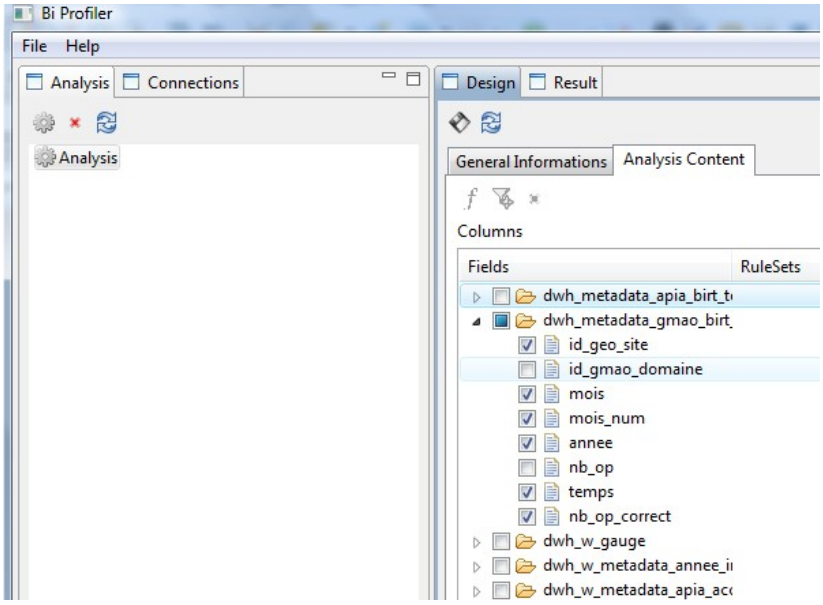
Fill the different fields and select the Connection that will support this Analysis

Analysis definition

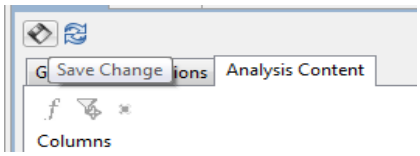
The next step is to define the analysis content from the Design panel.



You just have to check the Columns you want to analyse in the Analysis Content tab.



Once the columns are checked, you have to save the Analysis Content to be able to run the Analysis.

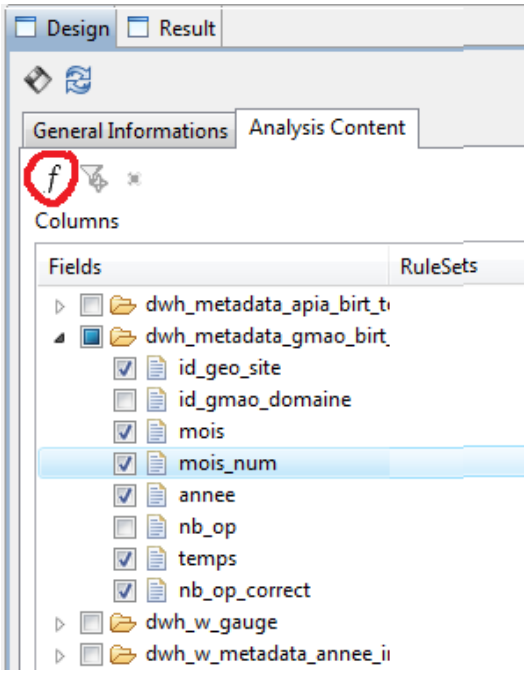


Rules sets creation

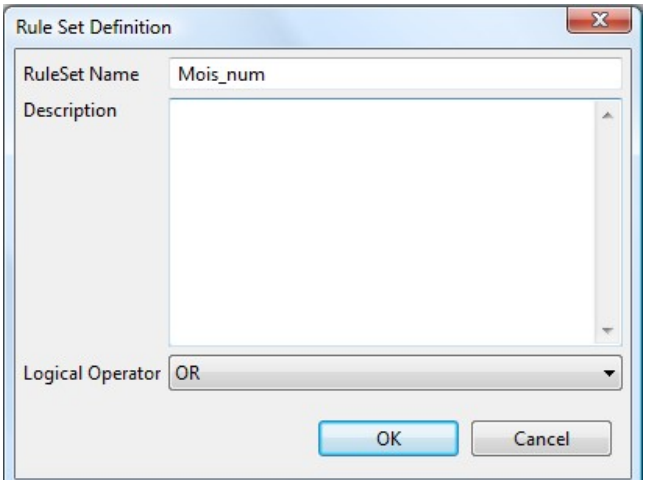
You can create some RuleSets on a column.
Each RuleSet is a combination of conditions that will be check on the data for the associated column.

Note : you cannot create a RuleSet on a column you have checked but not saved.

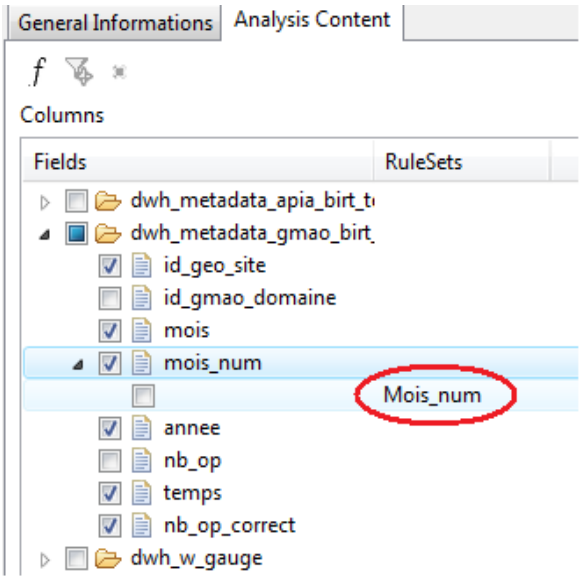
To add a rule, select a checked column, and use the following button.



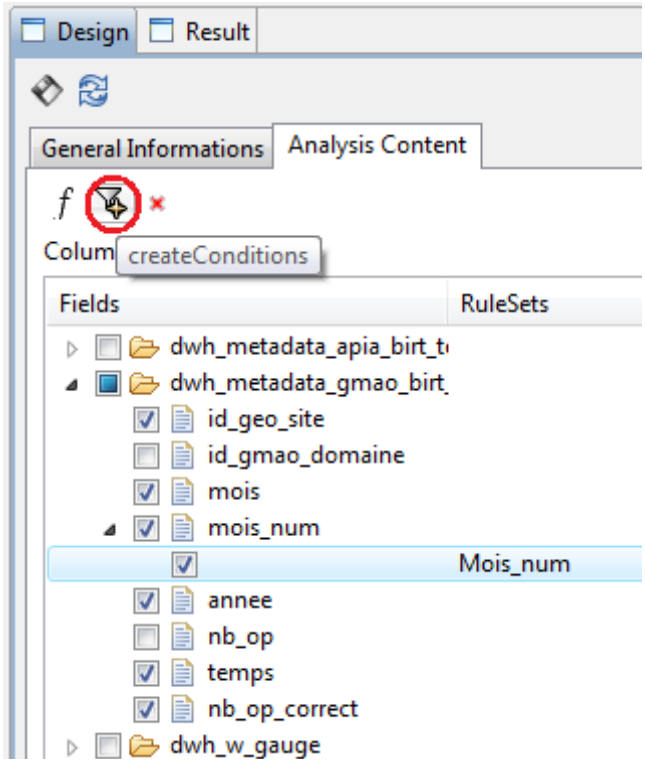
Define your RuleSet information.
The logical operator is useful to perform mutliple conditions on the same RuleSet.



Once you click Ok, you should see the created RuleSet as a child of your column.

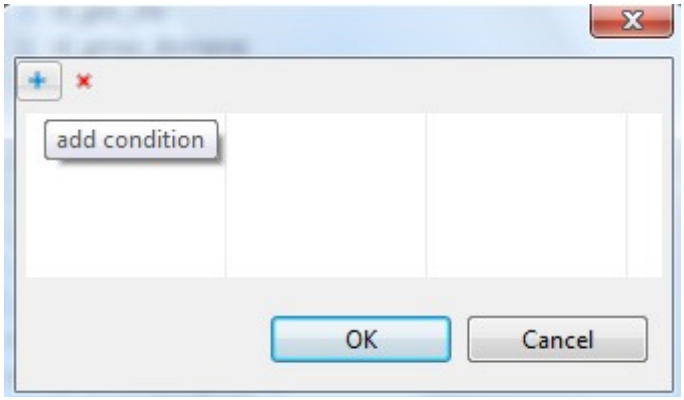


All we need to do is to add conditions in our RuleSet.



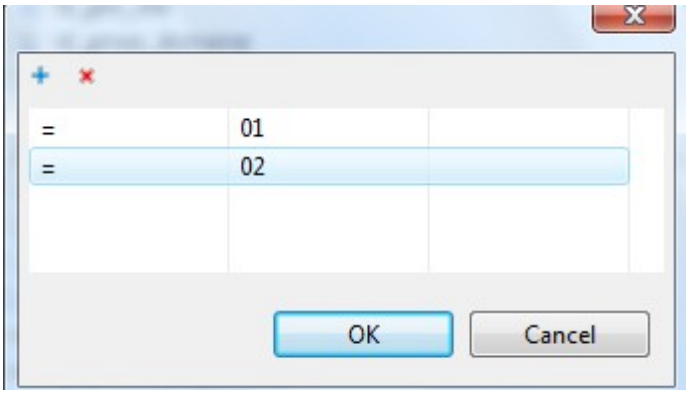
Select the RuleSet, then click on the “create Conditions” button

Then, click on the add button to add a condition.



There are 3 fields in the table :

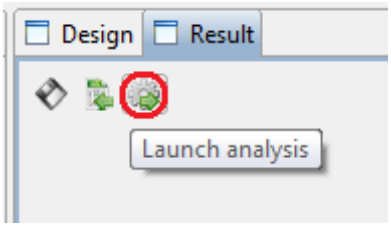
- Operator
- Value 1 used by the operator
- Value 2 used by the operator



If the type is String or Date, there is no need to add some quote to enter values, they will be generated automatically at runtime.

Analysis execution

The last step is to run our Analysis.
You can do it from the Result panel with the “Launch analysis” button.

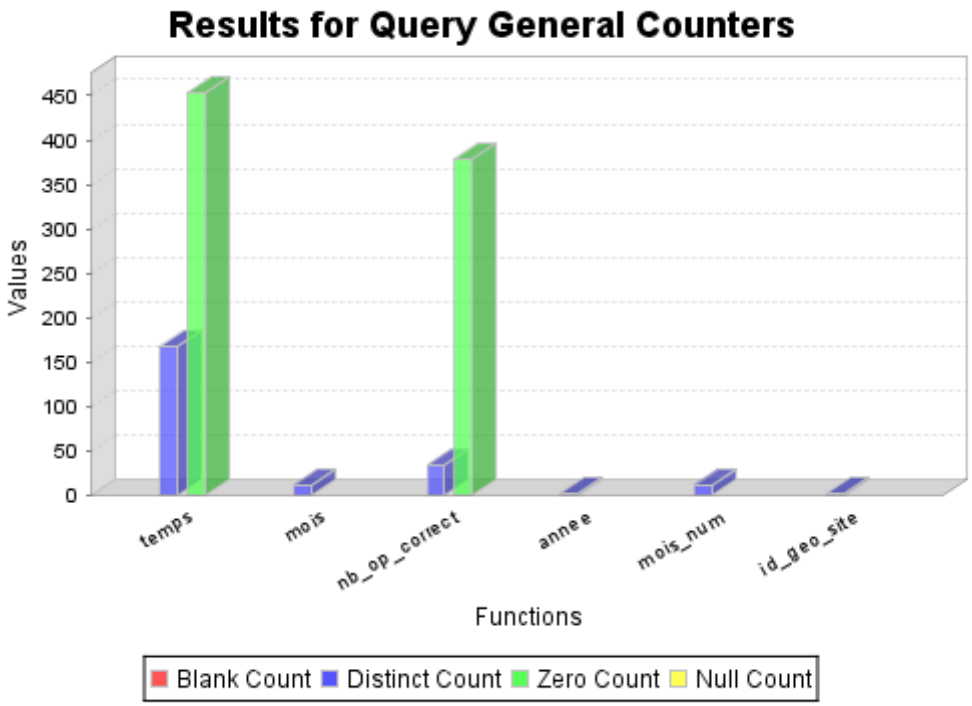


You can browse the result in several folders, there will be one folder for the general information and one by RuleSet used by the Analysis.

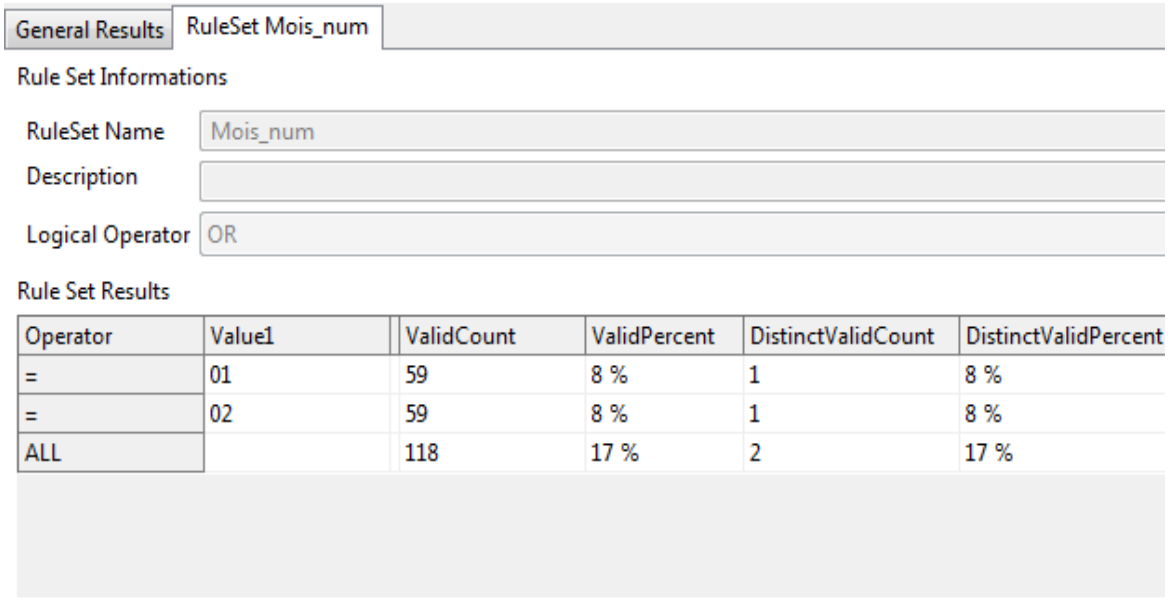
General Results | RuleSet Mois_num

Field Name	Data Type	Distinct Count	Highest Value	Highest Value ...	Lowest Value	Lowest Value C...
temps	DECIMAL	167	1009.08	1	0.00	453
mois	VARCHAR(45)	12	Septembre	59	Aout	57
nb_op_correct	BIGINT	34	51	1	0	378
annee	VARCHAR(4)	2	2008	348	2007	357
mois_num	VARCHAR(2)	12	12	60	01	59
id_geo_site	INTEGER UNSIG...	2	1275	327	1198	378

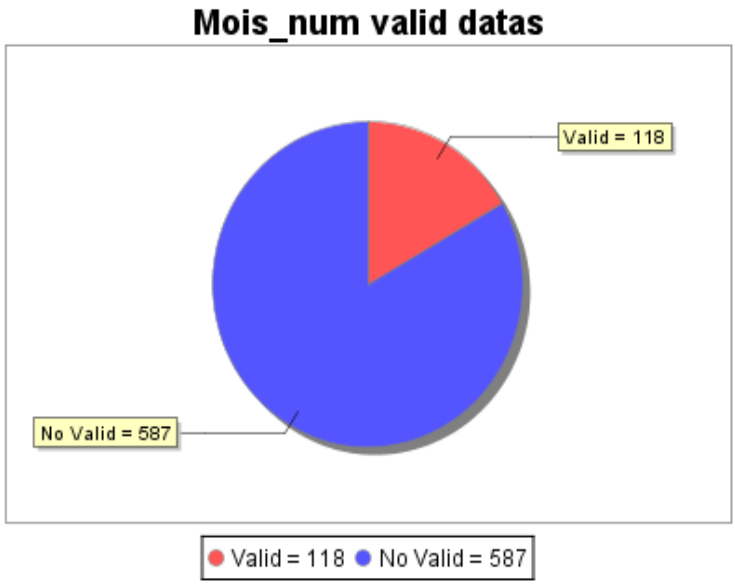
Average Value	Blank Count	Blank Percent	Null count	Null Percent	Zero count
39,133			0	0 %	453
	0	0 %	0	0 %	
3,077			0	0 %	378
	0	0 %	0	0 %	
	0	0 %	0	0 %	
1 233,715			0	0 %	0


Results for Query General Counters
Values
450
400
350
300
250
200
150
100
50
0
temps
mois
nb_op_correct
annee
mois_num
id_geo_site
Functions
Blank Count
Distinct Count
Zero Count
Null Count

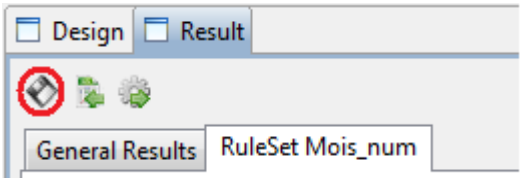
The table displays the different information on the data for each field mentioned in the analysis.



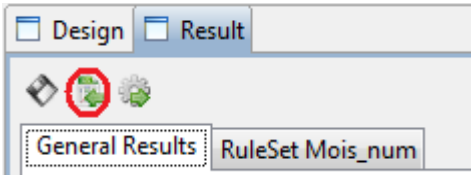
Operator	Value1	ValidCount	ValidPercent	DistinctValidCount	DistinctValidPercent
=	01	59	8 %	1	8 %
=	02	59	8 %	1	8 %
ALL		118	17 %	2	17 %



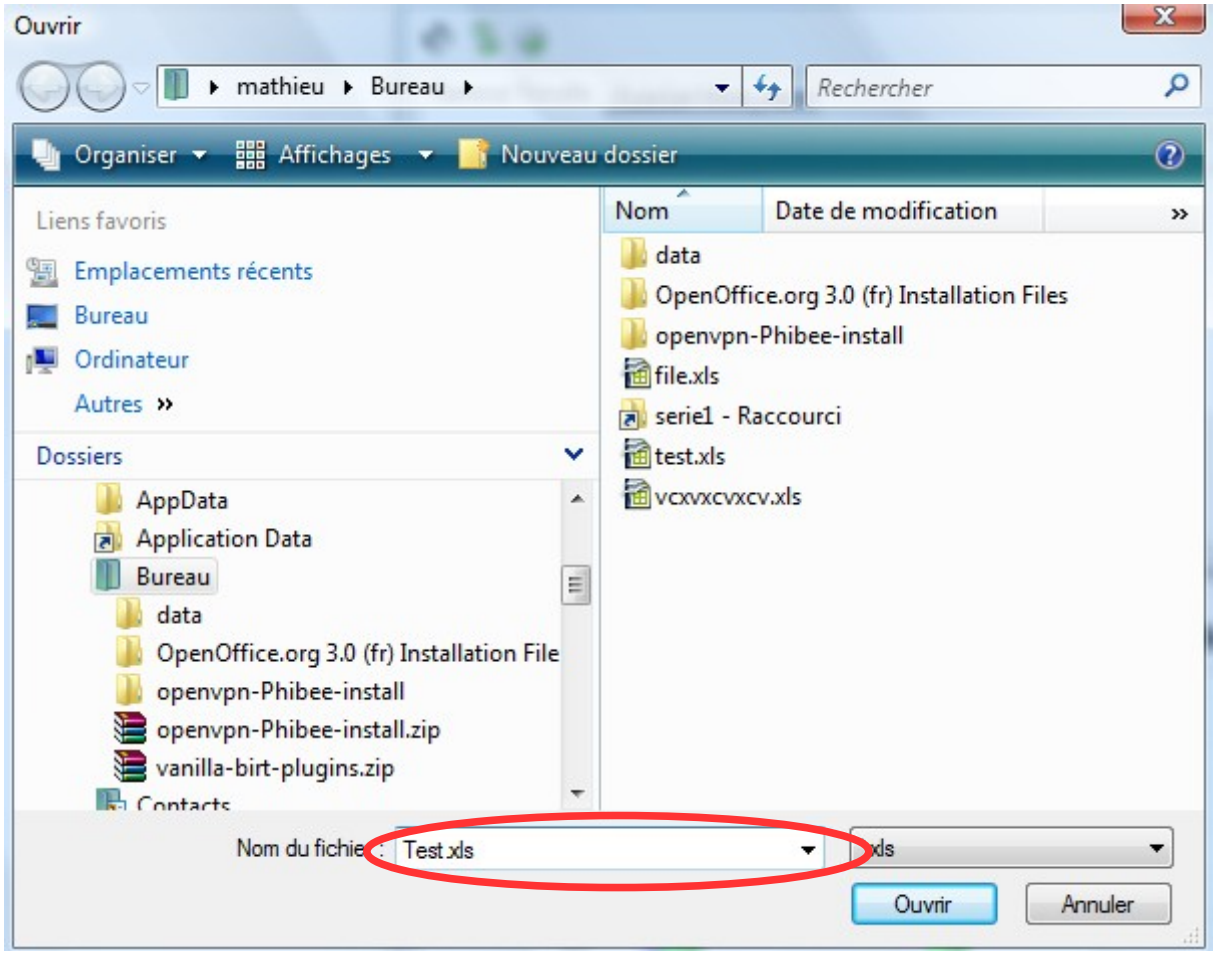
The 'save' button will save the results in the database.



You can also export the information into an Excel file.

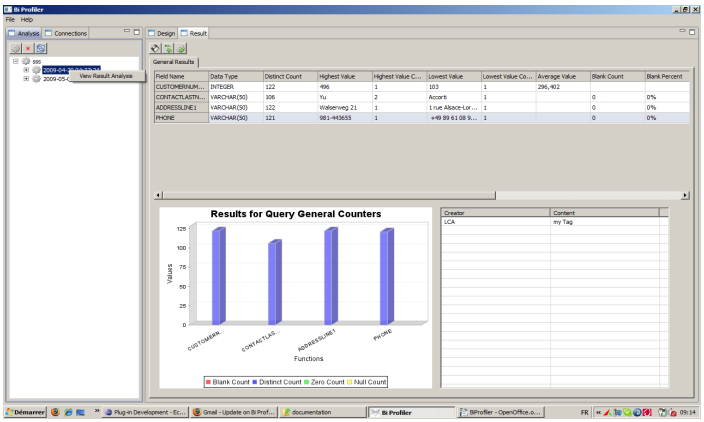


Define the place to save your excel file and its name.



Historic

If you already saved an analysis, you can now see the historic of the old results and edit them.



Tags

You can add some tags on each run of analysis before saving them by right clicking on the grid showing results. The tags can be added either on the general panel results or on the RuleSets grids.