



# FreeAnalysis

# XML Designer

## Getting Started Guide

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The FreeAnalysis Project is sponsored by BPM-Conseil

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## Introduction

This document introduces « XML Designer », a new package sponsored by BPM-Conseil that allows development of Xpath requests against numerous XML datasource type.

Basically, « XML Designer » contains 2 kind of features :

- accessing and browsing XML documents (XML document with « database » structure)
- Xpath assistant, to build Xpath request, without any knowledge of Xpath language

« XML Designer » will be an important piece of FreeAnalysis Schema Designer, especially when addressing FreeAnalysis Molap cube project (design, creation and deployment).

As this is the first version of the product, not all XML datasource type are supported. We will add new XML structure support in the next coming months

« XML Designer » exists in 2 versions : Eclipse PlugIn and Java stand alone application.

- Java application allow the manipulation of XML document
- Eclipse Plugin allow developer to embed XML manipulation interface within their own java application (a first example will be FreeAnalysis Schema Designer version 0.2x, not yet implemented in the 0.22 version)

Your comments, feedback and support are welcomed : [freeanalysis@bpm-conseil.com](mailto:freeanalysis@bpm-conseil.com)



## Installation

### Requirements

« XML Designer » is built on Eclipse RCP Framework.

Eclipse RCP requires a Java Virtual Machine 1.5

JVM 1.5 is available at : <http://java.sun.com/j2se/1.5.0/download.jsp>

Without a JVM 1.5 (standard computer may run JVM 1.4), you get a classloader error message

GettingSarted Guide assumes that readers are comfortable with packages menus and olap concepts

### Package Installation

« XML Designer » is a component of the FreeAnalysis Platform project.

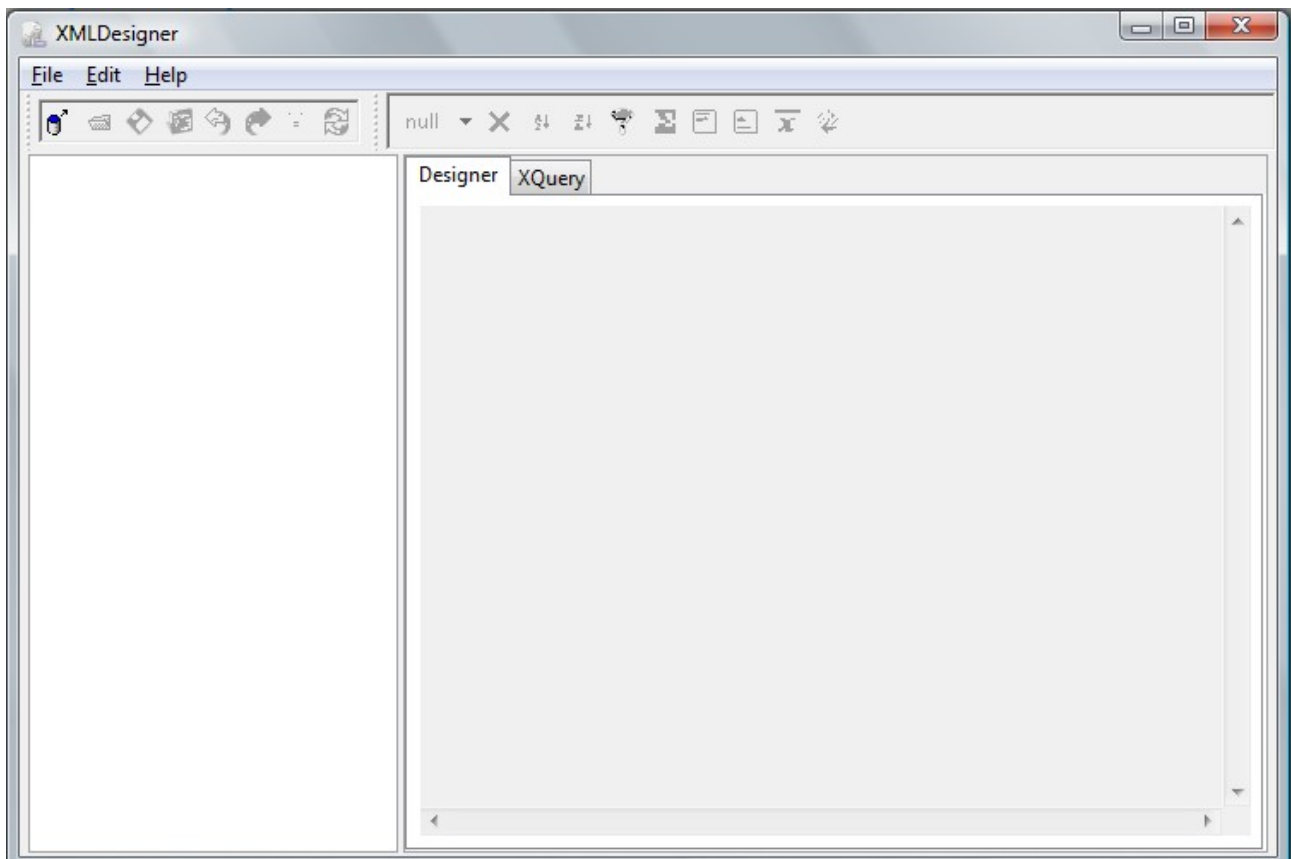
To install « XML Designer », first download the package from SourceForge, at the address :

<http://sourceforge.net/projects/freeanalysis/> (download section, choose « XML Designer » entry)

Unzip the package in a specific folder

Under Windows, select the executable file **XMLDesigner.exe**

### XMLDesigner Main Screen





## Global overview of the application

XML Designer allow user to :

- ✓ Browse XML documents :
  - XML document structure
  - XML document data, if available
- ✓ Manipulate XML documents :
  - Select some sub-documents and columns from the global XML structure
  - Apply filters, sort, agregates functions
- ✓ Manipulate Data and Data Query
  - Save the subset of data into a text file
  - Save the Query using Xpath syntax, to allow further use into Reporting package such as « Pentaho Reporting » or any other XML datasource compliant reporting package
- ✓ Unlimited undo/Redo support in any windows
- ✓ Full drag & drop interface for objects manipulation

### ***Concepts in XML Designer***

This package is about XML document manipulation. It assumes that users have an understanding of data manipulation and multi document manipulation limits (expecially when applying filters and sorts instructions)

Objectives of this package is to privde an easy interface to manipulate XML document. No more as a stand alone package. Interest of this package is definitely to be embed into other java package.





## Menus and Interface overview

### Menus

File : allow the management of Xquery requests using XML document and the saving of this requests into xquery specification file or text document file

Edit : access to copy / undo-redo and reset functions

Help : simple access to the about function, that display an about windows and plugins details

### Interfaces

The main interface is divided into 2 panels :

- Left part contains a treeview that display XML document structure, allowing user to drag&drop some part of the document on the workspace
- Right part is the workspace and contains 2 tabulations :
  - Designer : displays the content (row data set) of selected XML items, this is the main workspace where you can manipulate XML data rowset

day	month	quarter	year
2003-01-06	01 - January	Q1	2003
2003-01-09	01 - January	Q1	2003
2003-01-10	01 - January	Q1	2003
2003-01-29	01 - January	Q1	2003
2003-01-31	01 - January	Q1	2003

- Xquery : contains the Xquery requests – this request can be return into other application either using the « Edit/Copy XQuery » function, or directly a return function when using the PlugIn version of XML Designer

```
for $i in doc("{XML_DOCUMENT}")//order
return
< order>
{$i//day}
{$i//month}
{$i//quarter}
{$i//year}
</order>
```

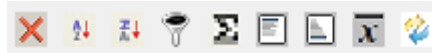


Coolbar : coolbar icons are the exact implementation of menus in the interface, and is divided into 2 set os icons :

- icons from « File » and « Edit » menu, such as 'Open XML document', 'save Xquery', 'Save XML rowset', 'Undo/Redo' and 'Reset'



- icons to manipulate XML rowset, such as 'Sort', 'Agregate functions', 'Filter'.



Note 1 : Those icons are active when data are available on the workspace

Note 2 : The first item in this coolbar section contains the name of the selected column



## XML Rowset Manipulation

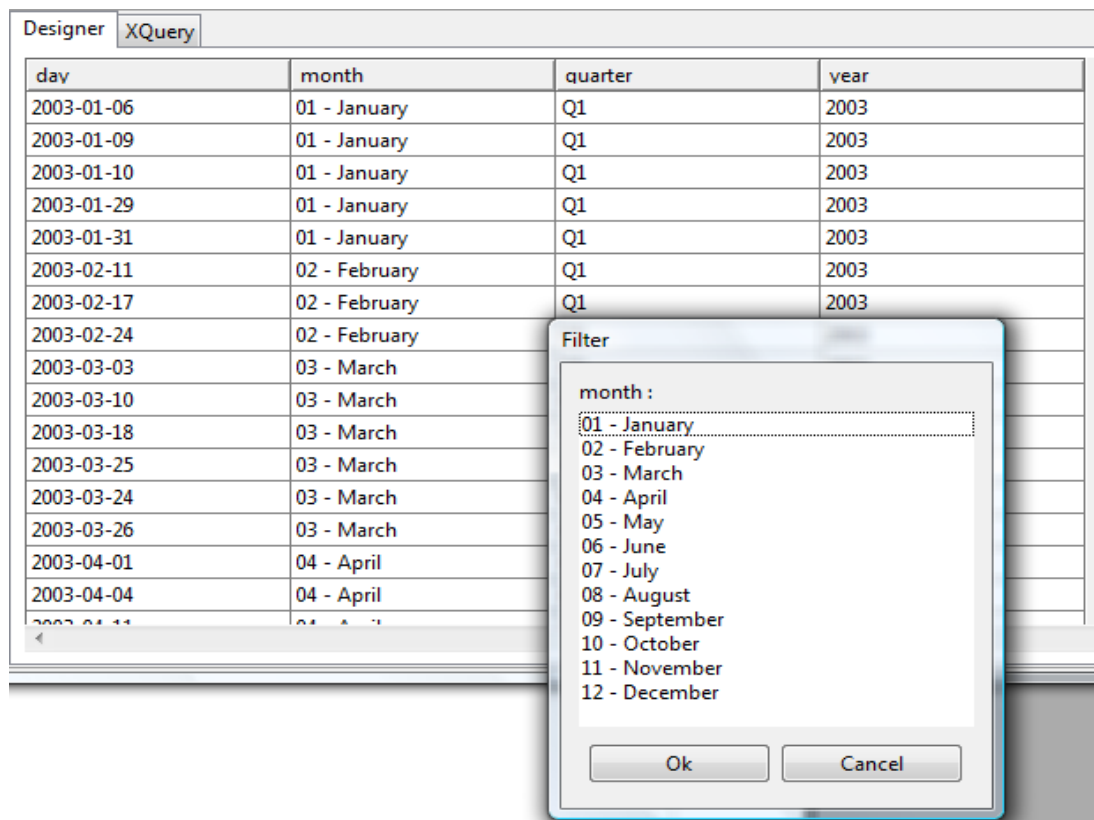
As explain in the introduction of this document, « XML Designer » can be used to browse complex XML documents that contain sub-documents (such as 1-n relations, with unlimited number of hieraerchies). Bellow are some simple manipulations that can allow you to create complex Xquery requests

### Adding data/column on the workspace

Simply drag&drop specific column or a group of columns (using drag&drop of the treenode) from the treeview to the workspace.

All the following manipulation are available once you have selected a column on the workspace, either using the coolbar icon or right-click with your mouse.

- removing a column from the workspace : choose the red cross icon
- sort on a column (ascending or descending)
- filter on a column : automatically display a popup list box with the available values. This list box is a multi-selection list box



- Agregate functions (experimental) : allow data manipulation to perform calculation on integer columns



## **Annexes**

### ***Annexe 1 : Know limitations***

Bellow are some of the known limitations in the first 1.0 package :

#### Platform and sources

Linux and Mac OS package will be soon available

#### Supported Databases / XML structured documents

A limited number of XML database structured documents are supported is this first release

#### I18N

Inetrface is only available in english

#### Roadmap

Roadmap of the further development (such as I18N interface, report generation using Pentaho xaction syntax, HTML publication, ...) will be publish with the version 1.1 of this package, in september 2007



## ***Annexe 2 : Contributors***

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