



TIRANA  
CONFERENCE 2018



LibreOffice®

# BaseDocumenter

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# What ?

- **BaseDocumenter**
    - Extension published on 1st-aug-2018
    - Requires LibreOffice ≥ 6.0 (6.1 recommended)
      - or LibreOffice xx + Access2Base 1.8.0/1.9.0 not supported !
      - or OpenOffice xx + id.
    - <http://www.access2base.com/basedocumenter>  
<http://www.access2base.com/basedocumenter/examples/TOC.html>
    - GPLv3
    - Basic library (+ Python)

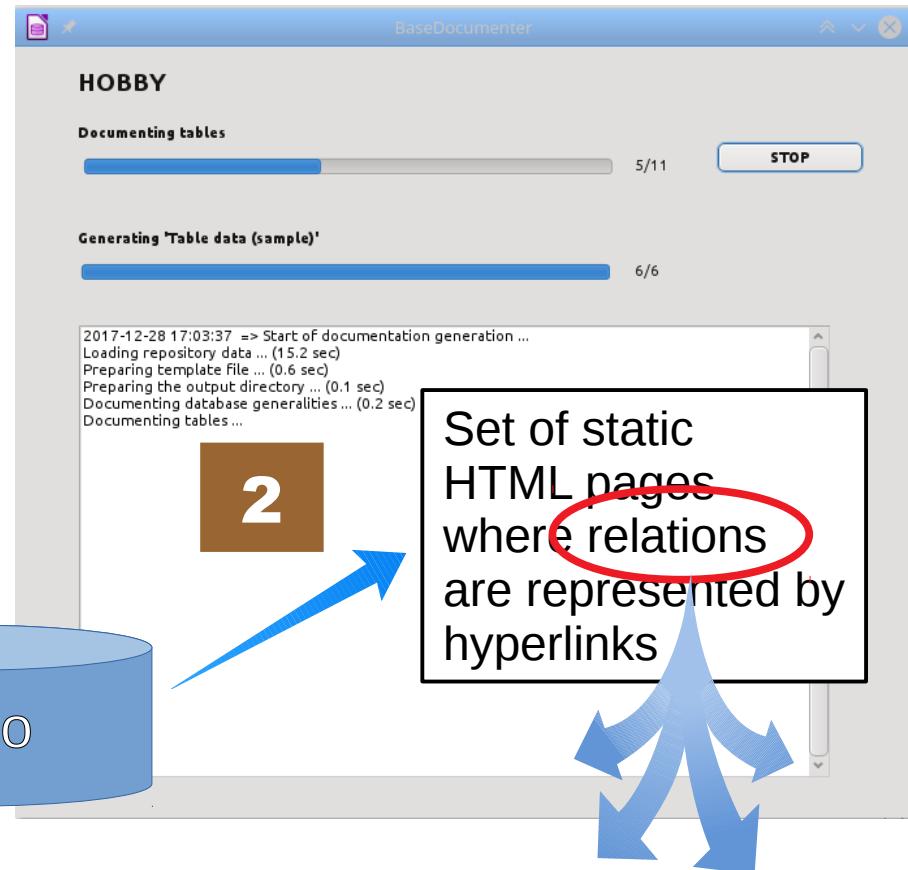
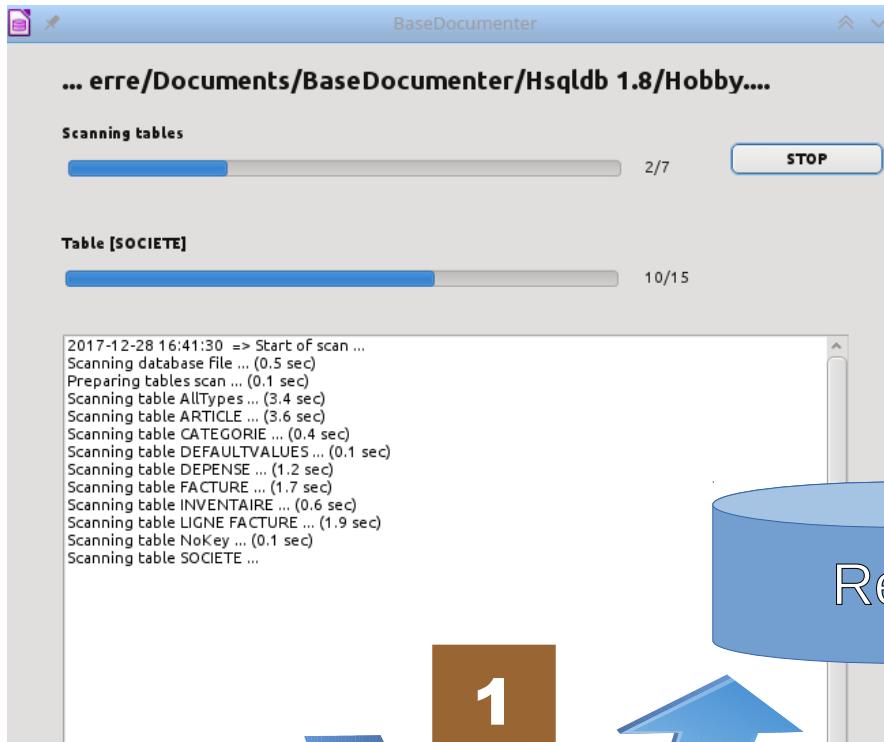
- Scans an existing Base application
- Stores observations in a repository
  - Items
  - Links between items
- Produces a readable report

# Repository

## BaseDocumenter process

No constraint, even headless mode OK

XXX.odb must be open  
Macros NOT activated



# Relations

USES /  
PARENT OF

Dialog

Form

Control

Database

Gridcontrol

Table

View

Query

Field

Module

Procedure

ToolbarControl

SubForm

<b>Dialog</b>			Child									Event		
<b>Form</b>			Child		Child	Source	Source	Source				Event		Child
<b>Control</b>					Child	Source	Source	Source	Source			Event		
<b>Database</b>												Event		
<b>Gridcontrol</b>			Child											
<b>Table</b>						Relations	Relations		Child					
<b>View</b>						SQL	Relations							
<b>Query</b>						SQL	SQL	SQL	Child					
<b>Field</b>									SourceField					
<b>Module</b>											Child			
<b>Procedure</b>	OpenDialog	OpenForm				OpenTable	OpenTable	OpenQuery				Call		
<b>ToolbarControl</b>												Event		
<b>SubForm</b>			Child		Child	Source	Source	Source				Event		Child

**Dependencies between items are identified when :**

- ✓ a table or a query name is used as a literal in a Basic procedure
- ✓ a table or a query is the record source of a form or a subform
- ✓ a table or a query is the data source of a list- or combobox
- ✓ a table or a query is referenced in a SQL statement
- ✓ a table is related to a table via referential rules
- ✓ a form name is used as a literal in a Basic procedure
- ✓ a dialog name is used as a literal in a Basic procedure
- ✓ a procedure is referenced in a document event
- ✓ a procedure is referenced in a form event
- ✓ a procedure is referenced in a dialog event
- ✓ a procedure is referenced in a (form or dialog) control event
- ✓ a procedure is referenced by a toolbar button
- ✓ a procedure is called by another procedure

# Repository – 2 tables

## Usual HSQLDB embedded database

### - DATABASE

	Field Name	Field Type	Description
	ID	Integer [ INTEGER ]	Database unique ID
	NAME	Text [ VARCHAR ]	Database short name
	LOCATION	Text [ VARCHAR ]	Database file physical location
	VERSION	Text [ VARCHAR ]	BaseDocumenter version used to scan the database
	SCANSTATUS	Integer [ INTEGER ]	1 = Not started, 2 = Ongoing, 3 = Done, 4 = Stopped by user
	SCANLOG	Memo [ LONGVARCHAR ]	Scan execution report
	DOCSTATUS	Integer [ INTEGER ]	1 = Not started, 2 = Ongoing, 3 = Done, 4 = Stopped by user
	DOCLOG	Memo [ LONGVARCHAR ]	Documentation generation execution report
	TOC	Yes/No [ BOOLEAN ]	True if database to be listed in tabular table of content
	SETTINGS	Memo [ LONGVARCHAR ]	Settings used to scan the database (JSON)
	PROPERTIES	Memo [ LONGVARCHAR ]	Scan results (JSON)

### - OBJECTS

	Field Name	Field Type	Description
	DATABASEID	Integer [ INTEGER ]	Database unique ID
	INDEX	Integer [ INTEGER ]	Item unique ID
	TYPE	Integer [ INTEGER ]	Item type (table, query, field, procedure, ...)
	NAME	Text [ VARCHAR ]	Item full name
	SHORTNAME	Text [ VARCHAR ]	Item short name (last component only)
	PARENTTYPE	Integer [ INTEGER ]	Parent item type (table, query, ...)
	PARENTINDEX	Integer [ INTEGER ]	Parent unique ID
	MISSING	Yes/No [ BOOLEAN ]	True if item used somewhere but not found
	USES	Text [ VARCHAR ]	List of items used by the current item
	USEDBY	Text [ VARCHAR ]	List of items using the current item
	PROPERTIES	Memo [ LONGVARCHAR ]	Scan results (JSON)

# Table of contents

## Table of contents

Database name	File location	Scanning done on	Tables	Queries	Forms	Modules	Dialogs	Toolbars	Missing items	Index
<a href="#">Access2Base</a>	... Documents/BaseDocumenter/www/databases/Basic/Access2Base.odb	08/07/2018 14:33:10				(31)				(898)
<a href="#">Basic Primitives</a>	... ents/BaseDocumenter/www/databases/Basic/Basic Primitives.odb	07/07/2018 12:37:19				(35)				(327)
<a href="#">Example_Autotext_Searchmark_Spelling</a>	... www/databases/LODoc/Example_Autotext_Searchmark_Spelling.odb	26/06/2018 17:05:22	(2)	(6)	(4)	(1)				(74)
<a href="#">Example_Combobox_Listfield</a>	... ocumenter/www/databases/LODoc/Example_Combobox_Listfield.odb	26/06/2018 17:07:59	(4)	(1)	(4)	(1)				(71)
<a href="#">Example_Dialogs</a>	... ments/BaseDocumenter/www/databases/LODoc/Example_Dialogs.odb	27/06/2018 10:53:34	(1)			(1)	(3)			(50)
<a href="#">Example_direct_Calculation_Form</a>	... nter/www/databases/LODoc/Example_direct_Calculation_Form.odb	27/06/2018 11:14:34	(1)	(1)	(1)	(1)				(33)
<a href="#">Example_Documents_Import_Export</a>	... nter/www/databases/LODoc/Example_Documents_Import_Export.odb	27/06/2018 12:16:30	(1)		(1)	(1)				(23)
<a href="#">Example_jump_Cursor_Subform_Mainform</a>	... www/databases/LODoc/Example_jump_Cursor_Subform_Mainform.odb	27/06/2018 12:25:12	(2)		(1)	(1)				(21)
<a href="#">Example_Mail_File_activate</a>	... ocumenter/www/databases/LODoc/Example_Mail_File_activate.odb	27/06/2018 12:30:11			(4)	(1)				(24)
<a href="#">Example_Search_and_Filter</a>	... Documenter/www/databases/LODoc/Example_Search_and_Filter.odb	27/06/2018 13:46:59	(5)	(9)	(8)	(1)				(207)
<a href="#">Example_serial_Number_Year</a>	... ocumenter/www/databases/LODoc/Example_serial_Number_Year.odb	27/06/2018 14:01:29	(1)	(1)	(1)	(1)				(22)
<a href="#">Example_Sport</a>	... cuments/BaseDocumenter/www/databases/LODoc/Example_Sport.odb	27/06/2018 14:06:53	(3)	(5)	(1)				(1)	(54)
<a href="#">GenoBase</a>	... /BaseDocumenter/www/databases/GenoBase/GENOBASEv40x_LEER.odb	08/07/2018 15:29:21	(57)	(117)	(27)	(10)			(1)	(2208)
<a href="#">Invoice Forms</a>	... s/BaseDocumenter/www/databases/Invoices/Invoice_Forms_v2.odb	12/07/2018 16:33:07	(8)	(9)	(4)					(263)
<a href="#">Media_with_Macros</a>	... nts/BaseDocumenter/www/databases/LODoc/Media_with_Macros.odb	27/06/2018 14:13:12	(33)	(12)	(6)	(7)	(1)		(1)	(604)
<a href="#">NorthWind</a>	... ents/BaseDocumenter/www/databases/NorthWind/TT NorthWind.odb	29/07/2018 18:10:22	(8)	(5)	(17)	(24)	(1)			(483)
<a href="#">Relations2Listboxes</a>	... BaseDocumenter/www/databases/ListBox/relations2listboxes.odb	12/07/2018 12:47:11	(4)	(2)	(4)					(75)
<a href="#">WorldCup</a>	... Documents/BaseDocumenter/www/databases/WorldCup/WorldCup.odb	26/07/2018 15:52:07	(17)	(14)	(5)					(587)
<a href="#">XRay</a>	... pierre/Documents/BaseDocumenter/www/databases/Basic/XRay.odb	16/07/2018 18:35:44				(8)	(5)			(242)

# Tables

## List of tables

Table name	Used by	Number of records	List of fields	Table data (sample)
Categories	<a href="#">Categories (Form)</a> <a href="#">ImportImages (Procedure)</a> <a href="#">ExportImages (Procedure)</a>	8	<a href="#">Details</a>	<a href="#">Data</a>
Customers	<a href="#">Customers union All (Query)</a> <a href="#">Query1 (Query)</a> <a href="#">Customers_NewRec (Form)</a> <a href="#">Customers_Sync_Orders (Form)</a> <a href="#">Products_ListBoxFilter ListBox-All (Control)</a> <a href="#">Products_ListBoxFilter CustomersAll-SQL (Control)</a> <a href="#">SyncForms (Procedure)</a>	91	<a href="#">Details</a>	<a href="#">Data</a>
Employees	<a href="#">CrossTab (Query)</a> <a href="#">EmployeesList (Query)</a> <a href="#">Employees_Sync_Orders (Form)</a> <a href="#">Orders_2Combos EmployeeName (Control)</a> <a href="#">Orders_2Combos EmployeeCity (Control)</a> <a href="#">SyncForms (Procedure)</a> <a href="#">TestGetTable (Procedure)</a>	9	<a href="#">Details</a>	<a href="#">Data</a>



Sample of data stored in table [Employees](#)

Address	BirthDate	City	Country	Extension	FirstName	HireDate	HomePhone
507 - 20th Ave. E. Apt. 2A	08/12/1968	Seattle	USA	5467	Nancy	01/05/1992	(206) 555-9876

Table name	Field name	Field type	Primary key	% not Null	Average	Most positive	Oldest date	Newest date	Longest string
<a href="#">Employees</a>	Address	VARCHAR		100					30
	BirthDate	TIMESTAMP		100			19/02/1952	02/07/1969	
	City	VARCHAR		100					8
	Country	VARCHAR		100					3
	EmployeeID	BIGINT	✓	100					
	Extension	INTEGER		100		5467			
	FirstName	VARCHAR		100					8
	HireDate	TIMESTAMP		100			01/04/1992	15/11/1994	

# Queries

Query name	Used by	Query type	Direct SQL	List of fields	SQL
EmployeesList	<a href="#">Main (Procedure)</a>	SELECT		<a href="#">Details</a>	<pre>     "CompanyName"; </pre> <pre> SELECT     '&lt;a id=""    "Employees"."EmployeeID"    "&gt;"    "Employees"."LastName"    '' AS "Last name",     "Employees"."FirstName" AS "First name",     "Employees"."BirthDate" AS "Birth",     "Employees"."Extension" AS "Phone",     "Employees"."HomePhone" AS "Home phone",     "Employees"."Title",     '&lt;a href="#"    "ReportingTo"."EmployeeID"    "&gt;"    "ReportingTo"."LastName"    '' AS "Manager" FROM     { OJ "Employees" AS "ReportingTo"     RIGHT OUTER JOIN "Employees" ON "ReportingTo".EmployeeID = "Employees".ReportsTo } </pre>



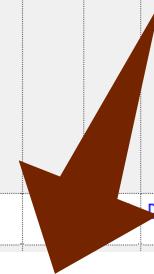
SQL beautifier

Query name	Field name	Field type	Source table	Source field
	All	BIGINT		All
	Country	LONGVARCHAR		Country
	Name	LONGVARCHAR		Name
<a href="#">Customers union All</a>	CompanyName	VARCHAR	<a href="#">Customers (Table)</a>	CompanyName
<a href="#">EmployeesList</a>	Birth	TIMESTAMP	<a href="#">Employees (Table)</a>	BirthDate
	First name	VARCHAR	<a href="#">Employees (Table)</a>	FirstName
	Home phone	VARCHAR	<a href="#">Employees (Table)</a>	HomePhone
	Last name			'<a id=""    "Employees"."EmployeeID"    ">"    "Employees"."LastName"    '</a>'
	Manager			'<a href="#"    "ReportingTo"."EmployeeID"    ">"    "ReportingTo"."LastName"    '</a>'
	Phone	INTEGER	<a href="#">Employees (Table)</a>	Extension
	Title	VARCHAR	<a href="#">Employees (Table)</a>	Title

# Forms & Dialogs

## List of forms

Form name	Used by	Root form(s)	Data source(s)	Height	Width	Controls by form	Form events
Calculator		Calculator		1024	1846	<a href="#">Details</a>	
Categories		MainForm	<a href="#">Categories (Table)</a>	1024	1846	<a href="#">Details</a>	CategoryName  Beverages Description Soft drinks, coffees, teas, beers, and ales Picture  CategoryID 1
Customers_NewRec		MainForm	<a href="#">Customers (Table)</a>			<a href="#">Details</a>	<a href="#">OnApproveRowChange</a> <a href="#">OnCursorMoved</a>



Form name	Control name	Control type	Caption	X,Y	Width,Height	Root form	Data source	Master fields	Child fields	Events by control	Required	Format
	txtLastName	Text		122,72	283,28	MainForm	Last Name				✓	
<a href="#">Orders_2Combos</a>	EmployeeCity	Combo box		30,88	190,20	MainForm	<pre>SELECT   DISTINCT "City"   FROM     "Employees"</pre>			<a href="#">OnTextChanged</a>	✓	
	EmployeeName	Combo box		30,157	190,20	MainForm	<pre>SELECT   DISTINCT "LastName"   FROM     "Employees"   WHERE     "Employees"."City" = 'Kirkland'</pre>			<a href="#">OnTextChanged</a>	✓	
	MainForm_Grid	Gridcontrol		245,31	637,441	MainForm						
	... CustomerID	Text	CustomerID			MainForm	CustomerID				✓	
	... EmployeeID	Formatted	EmployeeID			MainForm	EmployeeID				✓	Standard
	... OrderDate	Time	OrderDate (Time)			MainForm	OrderDate				✓	24h short
	... OrderDate	Time	OrderDate (Time)			MainForm	OrderDate				✓	24h short
	... ShipAddress	Text	ShipAddress			MainForm	ShipAddress				✓	
	... ShipCity	Text	ShipCity			MainForm	ShipCity				✓	

# Modules

Location	Library	Module name	Module type	Number of code lines	Procedures by module	Declaratives
Document	Standard	_Init	Standard	25	<a href="#">DBOpen</a>	<pre>Option Explicit  REM ===== ' LICENSE INFO ' The attached code is distributed in the hope that it will be useful, ' but WITHOUT ANY WARRANTY; without even the implied warranty of ' MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.</pre>
Document	Standard	Browse	Standard	34	<a href="#">BrowseThruControls</a> <a href="#">Main</a> <a href="#">StartBrowseThruControls</a>	<pre>Option Explicit</pre>
Document	Standard	CalculatedField	Standard	42	<a href="#">ComputeOrderTotal</a> <a href="#">ComputeOrderTotalGrid</a>	<pre>Option Explicit</pre>



Library	Module name	Procedure name	Language	Used by	Number of code lines	Procedure code
Standard	<a href="#">Records</a>	Main	Basic			<pre>End Function</pre>
Standard	<a href="#">Snippets</a>	Example1	Basic	<a href="#">Main (Procedure)</a>	4	<pre>Sub Main     'MsgBox DMedian("UnitPrice", "Products")     MsgBox DPercentile(0.25, "UnitPrice", "Products") End Sub</pre>
Standard	<a href="#">Snippets</a>	Example2	Basic		5	<pre>Sub Example2() ' Form presumed open     Dim offForm As Object     Set offForm = Forms("Orders_Browse")     MsgBox getUNOTypeName(offForm.DatabaseForm) End Sub</pre>
Standard	<a href="#">Snippets</a>	Example3	Basic		5	<pre>Sub Example3() ' Form presumed open     Dim ocControl As Object     Set ocControl = Forms("Orders_Browse").Controls("txtCustomerID")     ocControl.ControlModel.FontStrikeout = com.sun.star.awt.FontStrikeout.DOUBLE End Sub</pre>

Basic parser

# Missing items

## *Missing items*

Name	Type	Used by
<a href="#">DatasetActionGenerate</a>	Procedure	<a href="#">Media comMed (Control)</a> <a href="#">Media Author comAdd (Control)</a> <a href="#">Media Author comAut (Control)</a> <a href="#">Media comCat (Control)</a> <a href="#">Media comTow (Control)</a> <a href="#">Media comPub (Control)</a> <a href="#">Reader_Admission Form Adress comPosTow (Control)</a> <a href="#">Reader_Admission Form Adress comStr (Control)</a>

# Index

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### Basic Primitives

#### Modules

- App
- Arrays
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- Bookmarks
- Collections
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- Dialogs
- Document
- Document
- Extensions
- Fields
- Files
- Folders
- Functions
- Globals
- Graphics
- Install
- Log
- Math
- Module1
- OS
- RangeCell
- Sheet
- SpecialFiles
- Spreadsheet
- Streams
- Strings
- Styles
- System
- Tables
- Text
- TextFiles

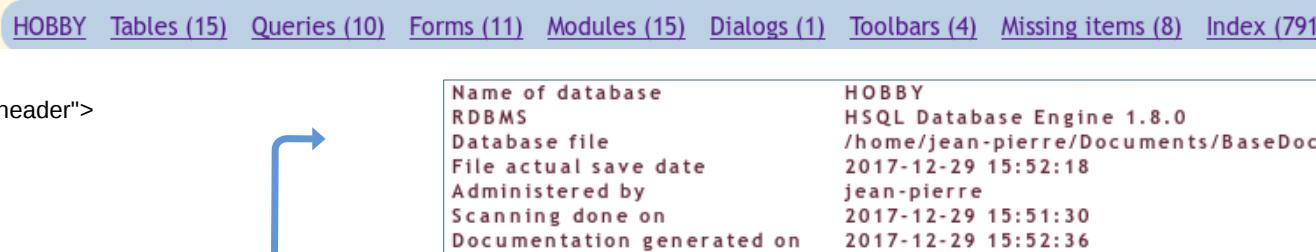
## Index

	Name	Type	Parent name	Parent type	Used by	Uses
	<a href="#">_AddLibrary</a>	Procedure	<a href="#">Document.Standard.Install</a>	Module	<a href="#">AddBasicLibrary (Procedure)</a>	
	<a href="#">_AverageTest</a>	Procedure	<a href="#">Document.MathPrim.Math</a>	Module		<a href="#">Average (Procedure)</a>
	<a href="#">_CalcFuncRange</a>	Procedure	<a href="#">Document.CalcPrim.Functions</a>	Module	<a href="#">CalcFunc_CountIf (Procedure)</a> <a href="#">CalcFunc_Match (Procedure)</a> <a href="#">CalcFunc_VLookup (Procedure)</a>	
	<a href="#">_CheckLibrary</a>	Procedure	<a href="#">Document.Standard.Install</a>	Module	<a href="#">AddBasicLibrary (Procedure)</a>	
	<a href="#">_ConcatVectorsTest</a>	Procedure	<a href="#">Document.ArrayPrim.Arrays</a>	Module		<a href="#">ConcatVectors (Procedure)</a>
	<a href="#">_CreateCustomProperty_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">CreateCustomProperty (Procedure)</a>
	<a href="#">_CreateHiddenDocument</a>	Procedure	<a href="#">Document.WriterPrim.Autotexts</a>	Module	<a href="#">AddAutoTexts (Procedure)</a>	
	<a href="#">_CustomPropertiesToArray_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">CustomPropertiesToArray (Procedure)</a>
	<a href="#">_CustomPropertyExists_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">CustomPropertyExists (Procedure)</a>
	<a href="#">_Custom.PropertyType_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		
	<a href="#">_DeleteAllCustomProperties_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		
	<a href="#">_DeleteCustomProperty_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		
	<a href="#">_GetCustomProperty_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">GetCustomProperty (Procedure)</a>
	<a href="#">_GetCustomPropertyValue_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">GetCustomPropertyValue (Procedure)</a>
	<a href="#">_GetPropertyByName</a>	Procedure	<a href="#">Document.LibOPrim.Toolbars</a>	Module	<a href="#">GetToolbarResName (Procedure)</a>	
	<a href="#">_GetPropertyByName</a>	Procedure	<a href="#">Document.LibOPrim.App</a>	Module		
	<a href="#">_SetCustomPropertyValue_Test</a>	Procedure	<a href="#">Document.LibOPrim.CustomProperties</a>	Module		<a href="#">SetCustomPropertyValue (Procedure)</a>
	<a href="#">_TestVectorFromStringNums</a>	Procedure	<a href="#">Document.ArrayPrim.Arrays</a>	Module		<a href="#">VectorFromStringNums (Procedure)</a>
	<a href="#">_ToolbarCommand</a>	Procedure	<a href="#">Document.LibOPrim.Toolbars</a>	Module	<a href="#">DeleteToolbar (Procedure)</a> <a href="#">DisplayToolbar (Procedure)</a> <a href="#">HideToolbar (Procedure)</a> <a href="#">ToolbarVisible (Procedure)</a>	<a href="#">GetToolbarResName (Procedure)</a>

# Templates

```
<!DOCTYPE html>
<html>
<head>
<title><!--Template_Title--></title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="../BD_Stylesheet.css">
</head>
<body>
<table>
<caption></caption>
<tbody>
<tr>
<td>
%DBTOCTABLE%

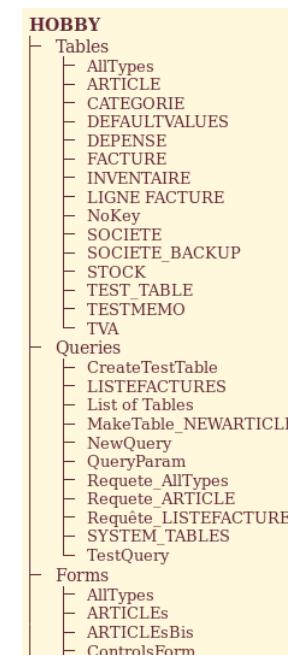
```



Name of database	HOBBY
RDBMS	HSQL Database Engine 1.8.0
Database file	/home/jean-pierre/Documents/BaseDocument
File actual save date	2017-12-29 15:52:18
Administered by	jean-pierre
Scanning done on	2017-12-29 15:51:30
Documentation generated on	2017-12-29 15:52:36

```
</tr><td>Name of database</td><td>%DBNAME%</td></tr>
<tr><td>RDBMS</td><td>%DBVERSION%</td></tr>
<tr><td>Database file</td><td>%DBLOCATION%</td></tr>
<tr><td>File actual save date</td><td>%DBFILEDATE%</td></tr>
<tr><td>Administered by</td><td>%USER%</td></tr>
<tr><td>Scanning done on</td><td>%SCANTIME%</td></tr>
<tr><td>Documentation generated on</td><td>%NOW%</td></tr>
</tbody>
</table>
</td>
</tr>
</tbody>
</table>
<div class="grid-container">
<div class="grid-item">
%DBTOCTREE%

```



- Tables
  - AllTypes
  - ARTICLE
  - CATEGORIE
  - DEFAULTVALUES
  - DEPENSE
  - FACTURE
  - INVENTAIRE
  - LIGNE\_FACTURE
  - NoKey
  - SOCIETE
  - SOCIETE\_BACKUP
  - STOCK
  - TEST\_TABLE
  - TESTMEMO
  - TVA
- Queries
  - CreateTestTable
  - LISTEFACTURES
  - List of Tables
  - MakeTable\_NEWARTICLE
  - NewQuery
  - QueryParam
  - Requete\_AllTypes
  - Requete\_ARTICLE
  - Requête\_LISTEFACTURES
  - SYSTEM\_TABLES
  - TestQuery
- Forms
  - AllTypes
  - ARTICLES
  - ARTICLEsBis
  - ControlsForm

```
</div>
<div class="grid-item">
%DBDATATABLE%

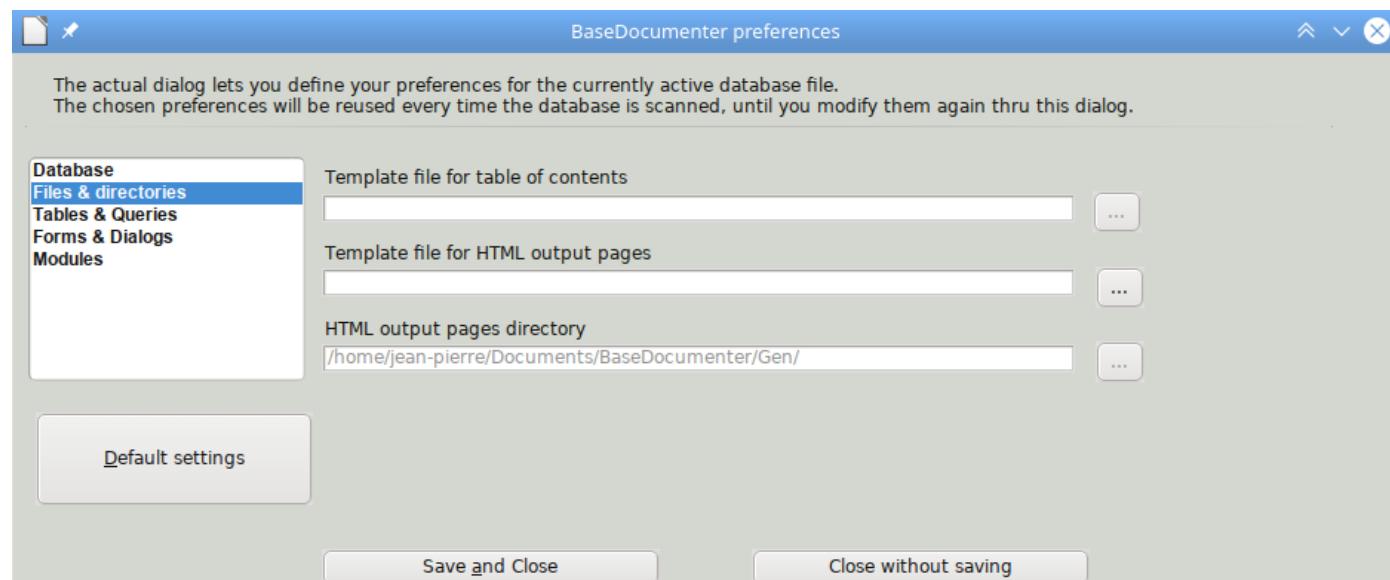
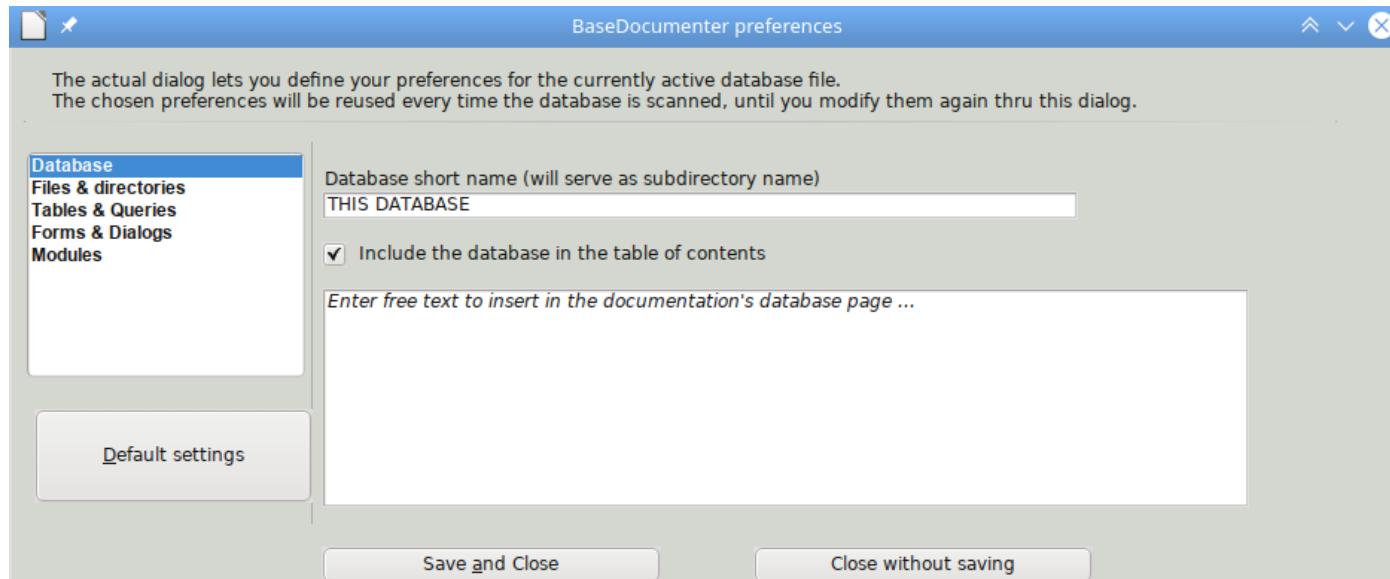
```

# Styles (CSS)

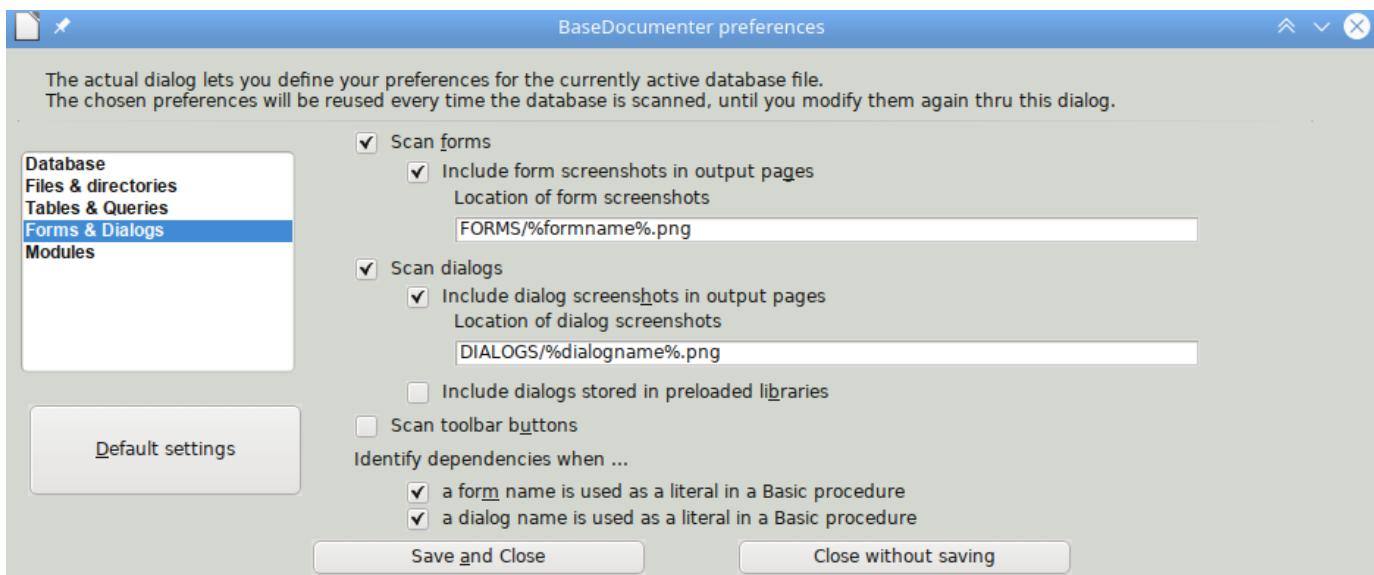
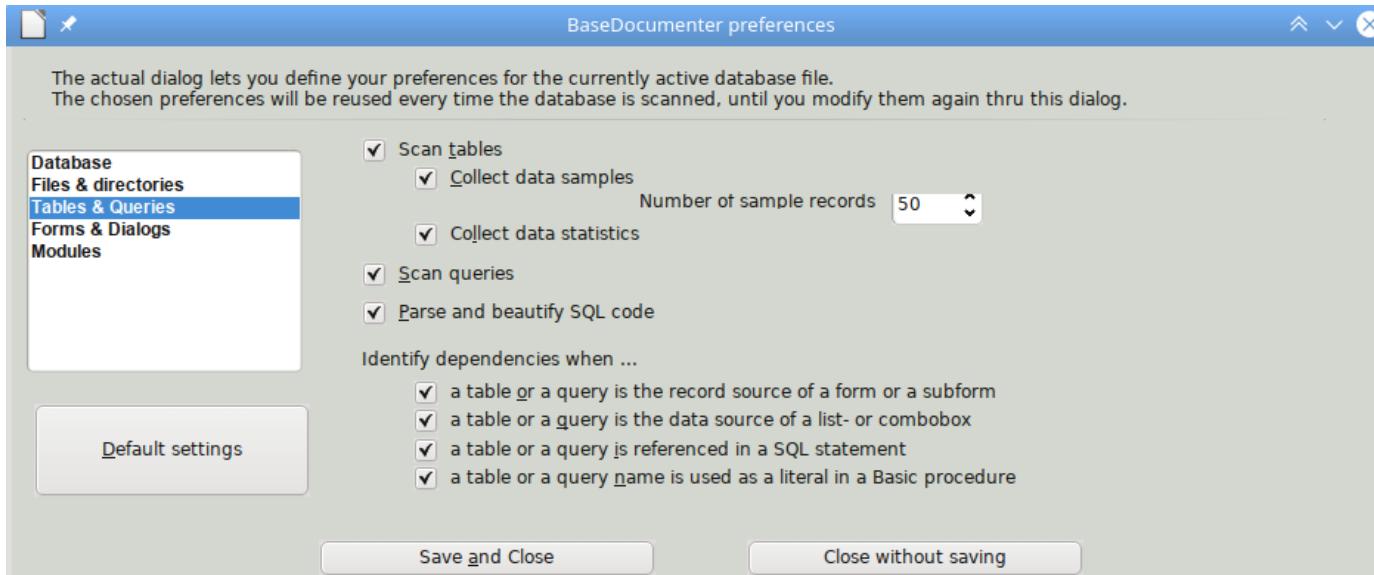
---

- dbdatatable
  - null, numeric, char, bool, negative
  - firstrow, lastrow, firstcol, lastcol
  - scriptidentifier, scriptkeyword, scriptfunction, scriptcomment, scriptvardef, scriptstring, scriptnumber, scriptconstant, scriptoperator, scripttablename, scriptqueryname, scriptformname, scriptdialogname, scriptprocname
  - sqlquote, sqltablename, sqlqueryname, sqlkeyword, sqlfunction, sqlnumber, sqlword, sqlerror, sqlcomment, sqlvariable
- fulltoctable
- dbtoctree, dbtoctreeheader
- dbtoctable

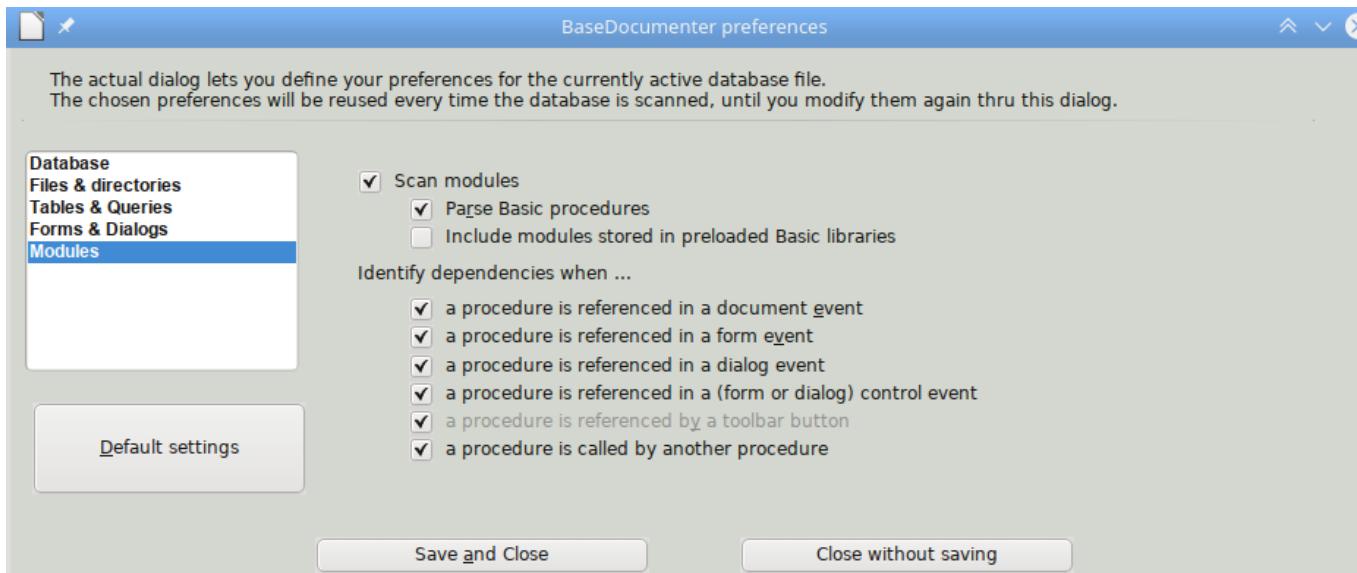
# Settings



# Settings



# Settings



# API

Function	Function Description	Argument(s)	Optional	Type	Default value	Argument(s) Description
BD_OpenRepository	Open the repository. It will remain open until it is closed explicitly.	Repository	Y	String	"BaseDocumenter"	Registered name or complete filepath.
		User	Y	String		
		Password	Y	String		
BD_CloseRepository	Close the actually open repository.	Compact	Y	Boolean	False	If True, execute "CHECKPOINT DEFrag" SQL statement before closing.
BD_CreateRepository	Create a new repository.	Filename	N	String		Complete filepath. Use either the URL or the OS-specific (e.g. C:\...) syntax.
		Register	Y	Boolean	True	
		Registername	Y	String	"BaseDocumenter"	
BD_SetOptions	Open the Preferences dialog box to define or update the general options/preferences.					
BD_ScanThisDatabase	Launch scanning phase of the currently active database file.  To generate the documentation, use <i>BD_DocumentDatabase</i> .					
BD_ScanAndDocThisDatabase	Launch both scanning and documentation generation phases of the currently active database file.					
BD_DocumentDatabase	Launch documentation generation phase of the concerned database file.  The database file is presumed already scanned.	Database	Y	String	Empty string	Database short name. If empty string, (re)document all databases present in the repository.
BD_ForgetDatabase	Erase completely the mentioned database from the repository.  Eventual previously generated HTML pages are not erased.	Database	N	String		Database short name.
BD_WithUI	Execute next commands with or without user interface.	Option	Y	Boolean	True	If False, no user interface.

# Performance

Database: **GenoBase**

Tables: 57

Table fields: 283

Queries: 117

Query fields: 824

Forms: 27

Form controls: 782

Dialogs: 0

Dialog controls: 0

Modules: 10

Procedures: 107

Lines of code: 4958

Toolbar controls: 0

Relations: 960

**Scan duration: 3'44"**

**Doc duration: 2'53"**

Database: **Access2Base**

Tables: 0

Table fields: 0

Queries: 0

Query fields: 0

Forms: 0

Form controls: 0

Dialogs: 0

Dialog controls: 0

Modules: 31

Procedures: 866

Lines of code: 22499

Toolbar controls: 0

Relations: 2488

**Scan duration: 4'34"**

**Doc duration: 4'30"**

Database: **WorldCup**

Tables: 17

Table fields: 102

Queries: 14

Query fields: 75

Forms: 5

Form controls: 373

Dialogs: 0

Dialog controls: 0

Modules: 0

Procedures: 0

Toolbar controls: 0

Relations: 215

**Scan duration: 0'57"**

**Doc duration: 0'39"**

Database: **Invoice Forms**

Tables: 8

Table fields: 44

Queries: 9

Query fields: 28

Forms: 4

Form controls: 169

Dialogs: 0

Dialog controls: 0

Modules: 0

Procedures: 0

Toolbar controls: 0

Relations: 74

**Scan duration: 0'17"**

**Doc duration: 0'22"**

« Basic is slowww ! » (M. Meeks)

# Limitations

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- RDBMS
  - Most tests with HSQLDB 1.8 and 2.x
  - Some tests with MSAccess 2003/2007, Postgres, Sqlite
  - Not ready for Firebird 3.0
- Not documented yet
  - Dependencies between fields and controls
  - Reports
- Known errors
  - Multiple datasources in forms if LO < 6.1
  - Hierarchical form names if LO < 6.2
- Perspectives
  - Automatic screenshots
  - Rewrite parsers in Python



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