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1 INTRODUCTION

1.1 PREFACE

Currently there are virtually no (affordable) products available to generate Microsoft Word documents based on data from the Oracle database. Tools that might meet these requirements are often expensive, require a complex installation procedure or are difficult to use.

The innovative Doxxy tool, a solution that was developed in pure PL/SQL, now allows you to generate documents from the Oracle database in a simple and cost-effective manner. Source documents (templates) can be created and uploaded by the user and from there Word documents that contain data from the Oracle database can be generated in a quick and simple manner.

The front-end that manages your metadata, such as selecting your data or loading templates, was created in Oracle Application Express (APEX). This simple tool will get you started in no time and the installation process is very straightforward. In addition to this, Doxxy 01.02 includes a lot of exciting new features. The default output format is DOCX. From version 01.02, it's also possible to generate PDF files.

We hope that you will experience endless satisfaction with Doxxy!

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1.2 WHAT CAN YOU EXPECT FROM DOXXY?

- An easy tool that will get you started in no time.
- Complete use of all Microsoft Word options, such as the different fonts, bold, underline, lists, tables, images, ...
- Templates and data can be separated. The users can supply templates. No Oracle experience is required. The data can be compiled separately by an Oracle developer.
- The layout of the documents will depend on the format of the templates in Microsoft Word. The user only has to have basic knowledge of this word processor.
- The software supports Microsoft Word tables. Data from the Oracle database can be entered into these tables.
- Bulleted lists, both numbered and unnumbered, are supported. Data from the Oracle database can be added to these lists.
- Dynamic headers and footers are supported.
- Images and charts in the templates are supported.
- ...

1.3 WHAT IS ALREADY POSSIBLE IN DOXXY?

- Input data from the Oracle database using SQL statements.
- Capture input parameters.
- Reuse columns and parameters in other SQL statements.
- Nested master-detail structures.
- Display data according to the different layout options: text (paragraphs), tables and lists.
- Conditional display of text and data.
- Conditional formatting of text and data.
- Display images: both, those imprinted in the templates, as well as images from the database.
- Load different templates (this is really handy if you want to generate your report in various languages).
- Generate to DOCX.
- An optional license allows you to generate PDF files.

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2 INSTALLATION

2.1 SOFTWARE REQUIREMENTS

Database	Oracle 10.2 or higher
APEX	APEX 4.x or higher

2.2 INSTALLATION

Doxxy 01.02 comes as an export file of a Packaged Application for APEX. The file contains 1) the APEX UI and 2) all database objects, as "supporting objects".

The installation process consists of the following steps:

- 1. Create a specific Doxxy database schema.
- 2. Create a workspace in APEX and link it to the Doxxy database schema.
- 3. Log in to this workspace and import the APEX export file, including the "Supporting Objects".

Please see the Appendix for more information regarding the third step.

Remarks

- By default, the **IMAGE_PREFIX** attribute is defined as **/i/**. If required, you may change this according to your environment.
- The Doxxy installation comes with a standard user: sysadmin / sysadmin. Please use the application to change your password according to your own specific requirements.
- The "Supporting Objects" as mentioned in step 3 of the installation, contain all the required Doxxy objects as well as the PL/SQL engine.

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Sample script for creating a specific Doxxy schema

```
REM change password + tablespace name to your requirements
CREATE USER dg4o 0102 IDENTIFIED BY <my password>
DEFAULT TABLESPACE users TEMPORARY TABLESPACE temp
QUOTA UNLIMITED ON users;
GRANT CREATE SESSION TO dg4o_0102;
GRANT CREATE SEQUENCE TO dg40 0102;
GRANT CREATE SYNONYM TO dg4o 0102;
GRANT CREATE PUBLIC SYNONYM TO dg4o 0102;
GRANT CREATE ANY CONTEXT TO dg4o 0102;
GRANT CREATE PROCEDURE TO dg4o 0102;
GRANT DROP PUBLIC SYNONYM TO dg4o 0102;
GRANT CREATE TYPE TO dg4o 0102;
GRANT CREATE ANY DIRECTORY TO dg4o 0102;
GRANT CREATE TRIGGER TO dq4o 0102;
GRANT CREATE VIEW TO dg4o 0102;
GRANT CREATE TABLE TO dg40 0102;
```

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3 EXPLORING DOXXY

Before you begin to explore Doxxy, you will need to launch Doxxy in your internet browser. Go to the appropriate APEX url and sign in using your username and password.

Login	
Username Password	doxxy_user
	Login

Once you have logged in successfully, you will be directed to the "Home" page. Depending on the user rights and the directories you have been given access to, you will see the following screen.

olders	Create Folder	A Home		
Search Documents X	<	Folders		• Create Folder
			Q Search	
		Name	Description	
SYSTEM		DOXXY	Internal Doxxy folder	
MY_FOLDER		- APEX	Folder containing reports on APEX metadata	
		— DEMO	Doxxy Folder with sample / demo reports / documents (based on DEMO_xxx tables)	
		- SYSTEM	System info for the Doxxy Environment	
		MY_FOLDER	My Project Folder	
				1-

You can still return to the homepage at any time by using the bread crumb navigation at the top, just below the black bar or by clicking on the Doxxy logo in the upper-left corner of the screen.

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3.1 FOLDERS

To the left, you will see a useful interactive tree, this shows you all the folders, sub-folders, documents and document details that you have access to. To the right, you will see the details of the tree item that has been selected. In the following illustration you will see a list of your folders.

olders O Create	Folder	A Home		
Search Documents X	<	a Folders		Create Folder
			Q Search	
		Name	Description	
SYSTEM		DOXXY	Internal Doxxy folder	
MY_FOLDER		- APEX	Folder containing reports on APEX metadata	
My Documents		- DEMO	Doxxy Folder with sample / demo reports / documents (based on DEMO_xxx tables)	
		- SYSTEM	System info for the Doxxy Environment	
		MY_FOLDER	My Project Folder	
		- My Documents	My Documents Folder	
				1 -

You can create folders by using the "Create Folder" button. Give the folder a descriptive name and if necessary, select the parent directory that you want to create your folder in. Next click on "Create".

CREATE F	older
* Folder Name (?)	New Folder
	New Folder within MY_FOLDER
Description (?)	
Parent Folder [?]	MY_FOLDER
	Cancel Create

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To open a folder, click on the desired folder's name in the tree. On the illustration below you will notice that the "DOXXY" folder has been opened. This folder, in turn, contains a number of subfolders, namely "APEX", "DEMO" and "SYSTEM". The "DEMO" folder, contains the "Order Confirmation" demo report, which is an example document that we created. We will discuss it later on in this manual.

Folders oc	reate Folder	Home > - Dox		
Search Documents X	<	🚡 DEMO - Doxxy	/ Folder with sample / demo reports / documents (based on	Actions ~
 T DOXXY → APEX ✓ T DEMO → B Order Confirmation 	-	Documen	ts	Create Document
		News	Q Search 💭 Reset	Last Channed
✓		Order Confirmation	Order confirmation letter including an overview of the ordered products. (= Example document from the Doxxy manual)	28-02-2014 16:11:36
				1 - 1

By using the "Actions" button, you can view and edit (modify, create subfolder, import, export, delete) the properties of your folder.

Actions -				
🖍 Edit Folder Info				
Create Subfolder				
 Import Document(s) 				
Export Documents				
🛗 Delete				

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3.2 DOCUMENTS

Documents can be created at all folder levels. When you click on a folder (that contains documents) in the tree, the details pertaining to these documents will be displayed on the right-hand side. You can exit your folders at any time by using the bread crumb navigation.

Folders	O Create Folder		🕈 Home 🗲 🚰 DOXX	Y > 🚔 DEMO	
Search Documents X		<	🚔 DEMO - Doxxy	Folder with sample / demo reports / documents (based on	Actions ~
 ✓ → DOXXY → ■ APEX ✓ → DEMO → ■ Order Confirmation 			Document	S Q Search 🗸 Reset	Create Document
			Name	Description	Last Changed
My Documents			Order Confirmation	Order confirmation letter including an overview of the ordered products. (= Example document from the Doxxy manual)	28-02-2014 16:11:36
					1-1

You can create documents by using the "Create Document" button or by using the "+" icon that appears when you hover over a folder in the folder tree. Rename the document, provide some additional information and select the parent folder that you want to save the document in. Next click on "Create".

CREATE Do	cument		ж
* Document Name [?]	My first document		
Description [?]	My first document		
* Folder (?) Begin Tag (?)	My Documents 🔟	z	
End Tag (?)	1		
			_
		Cancel	Create

Please note: the start and end tag can be set per document. In this example, we have used the square brackets "[" and "]", but these can be changed if required. We will need these tags when we create the templates.

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You can open a document by clicking on the document that you require in the tree to the left. In the illustration below, the "Order Confirmation" document has been opened.

A document consists of one or more SQL statements, one or more PL/SQL statements, one or more templates, and any input parameters. In the illustration below, the "Order Confirmation" demo report has been opened. You can easily navigate between the SQL statements, PL/SQL statements, the templates, and the parameters by using the folder tree to the left or the detailed view to the right.

Folders O Create Folder	A Hom	e 👂 🖀 DOXXY	> 🚘 DEMO 🔅	Order Confi	irmation
Search Documents 🗙	د ا	der Confirma	ation - Order of	confirmation letter	including an overview of the ordered
	s	QL PL/SQL	Templates	Parameters	
 ✓ → DEMO ✓ - ✓ - Confirmation 	0	SQL Statem	ents		
SQL Statements					
PL/SQL Statements				Q Search	C Reset
Parameters	P	arent Name		Name	
- E SYSTEM	-			Orders	
V- SMY_FOLDER	0	Orders	- Customers		
My Documents My Polder	0	rders		- Items	
	0	rders		- Product ava	ilable

By using the "Actions" button, you can view or edit (modify, delete, move, export, print meta data report, visualize template, ...) your document. Request a preview of your work (DOCX report), by using the "Preview" button or use the handy eye icon that appears when you hover over the tree.



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4 MY FIRST REPORT

Follow these simple steps to create a report. If required, these can be repeated a couple of times, until you have achieved the desired result.

	Step	Description	Where?
1	Start	Create the desired folder and document.	In the Doxxy tool
2	Data =	Select the information that you would like to	In the Doxxy tool
	What?	display in your report from the database.	
3	Layout =	Use a template to choose how you want the data	In your own Word
	How?	to be displayed in your report.	template
4	Preview	Request a preview of your report to see if it meets	In the Doxxy tool
		your requirements.	
5	Run	Load your report using your own application.	In your own
			application

The following paragraphs contain a brief description on how you can perform these different steps with the Doxxy tool.

In Doxxy, besides "What?" and "How?", there are two more refinements possible when creating a report, namely: defining one or more parameters and adding PL/SQL logic before or after the execution of a report. These additional possibilities are addressed in the next chapter, including a fully elaborated example.

4.1 CREATE A FOLDER AND DOCUMENT (START)

Before you begin, we suggest that you create an appropriate folder for your test reports or navigate to your desired folder. We used the "My Documents" folder for this user manual.

olders	Create Folder
Search Documents X	
DOXXY	
My Documents	

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This folder is initially empty.

My Documents - My Documents Folder		Actions -
Documents		Create Document
Q Search Create Document to start working.	C Reset	

Create the document in which you want to manage all your metadata, such as SELECT statements, PL/SQL statements, templates and parameters. To do this, click on the "Create Document" button on the top right-hand side or click on the "+" icon that appears as soon as you hover over the folder in which you would like to create a document.

CREATE Do	cument		ж
* Document Name [?]	Orders overview		
	Overview of all orders	1	
Description (?)			
* Folder [?]	My Documents 💌		
Begin Tag [?]	[
End Tag [?]]		
		Cancel	Create

Choose an appropriate name for your document and enter a brief description. Click on the "Create" button in the bottom-left corner.

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After the document has been created, it will appear under the folder where it was created. By clicking on the document name, we can shape our document by adding "SQL Statements", loading templates, and, if required, adding a "PL/SQL procedure" or defining input "Parameters".

Please note that there are several ways to navigate between the different data: this can be done via the tree to the left, or by using the tabs in the detailed screen to the right.

4.2 SELECT DATA (WHAT?)

In this step, you will determine which data to display in your report. You can do this by selecting the data through one or more SELECT statements.

SQL PL/SQL Templates Parameters	
	Create SQL
Q Search C Reset	
No SQL statements found.	

First, we need data for our report. In this example, we will show you a simple overview of all the orders that have been placed from the DEMO_ORDERS table.

Click on the "Create SQL" button in the "SQL" tab and complete the fields.

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Create SQL Statement			Cancel Create
Info			
* Name (?) Orders	Sequence [?]		
Description [?] All orders from the DEMO_ORDERS	table		
Parent SQL Statement [?]		Parameters	Create
* SQL Statement [?]		No Parameters	
2 c.cust_first_nam 3 c.cust_first_nam 4 TO_CHAR(o.order_ TRIM(TO_CHAR(o.or 6 FROM demo_orders o 7 JOIN demo_customers c O	<pre>3', ' ' [c.cust_last_name cust_name, timestamp, 'DD-MM-YYYY') order_date, cder_total, '999G999D00')) order_total w c.customer_id = o.customer_id</pre>		
Parse SQL Copy from SQL * Usage In Document * Recordset	Code * Document Area		
Table ORDERS Add	Body of a document		

Name

Choose a clear and unique name for your SQL statement.

Sequence

A reference number for the SQL-statement; it determines the order of the SQL statements in the visualization in the the Doxxy UI and "processing" by the Doxxy engine.

Description

Optionally, a description may be added.

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Parent SQL statement

In the event that you want to display a master-detail structure, you can indicate your master SQL statement here. The list box will automatically be completed with all previously created SQL statements.

SQL Statement

Enter your statement here to retrieve all the data that you require from the database. This is the data that you would want to display in your report later on.

Usage in Document

Use the list boxes to clarify how the data should be displayed in your report. You have five types of layouts to choose from.

- Table: in a table.
- *List*: a numbered or unnumbered bulleted list.
- Paragraph: in een paragraph, as standard standalone text (in a previous version of Doxxy this used to be called: Global document)
- *Page Break*: in a paragraph, where a page break is added after each record of the SELECT statement.
- *Page Reset*: in a paragraph, where a page break is added after each record of the SELECT statement and any page numbers are reset to 1.

Recordset Code

Select a clear, unique code for your SQL statement. You will need to use this code in your template as reference to your statement.

Tip: Use capital letters. This will highlight the text among the default text in your document.

Document Area

Use the selection box to position the data in your report. Here you have three options:

- Body of a document
- Header of a document
- Footer of a document

Parse SQL

It is still possible to check the syntax after the SQL statement has been entered, by simply clicking on the "Parse SQL" button. If this was successful, the appropriate communication will be displayed.

1 SEL 2 3 4 5 6 FRC 7 JOI	<pre>ECT o.order_id, c.cust first_name, c.cust_first_name ' ' c.cust_last_name_cust_name, TO_CHAR(o.order_timestamp, 'DD-MM-YYYY') order_date, TRIM(TO_CHAR(o.order_total, '999G999D00')) order_total M demo_customers c ON c.customer_id = o.customer_id</pre>	
Stater	nent succesfully parsed.	

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Copy from SQL

SQL statements can be copied from any documents and folders that you have access to.

COPY from	n SQL	ж
Select Folder [?] Select Document [?] Select SQL [?]	No folder No document No SQL No SQL	
SQL Example [?]		
	~	
	Cancel	Сору

Finally, click on the "Create" button, to confirm the creation of your SQL statement. If you navigate back to the info page of the document that you created, you will find this SQL statement in the "SQL" tab.

Orders overview	Actions - O Previ		
SQL PL/SQL T			
• SQL Statemen	ts		O Create SQL
	Q Searc	h 🖸 Reset	
Parent Name	Name	Description	Valid
-	Orders	All orders from the DEMO_ORDERS table	â 🗸
			1-

If you require more data, you can select it by using the extra SQL statements. You may repeat this "Create SQL" step as many times as you need, until you have collected all the data.

To edit an SQL statement that has already been created, click on the appropriate statement's name.

In the next step, we will create a template and upload it here.

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4.3 CREATE TEMPLATES (HOW?)

In this step you will create the layout of your report. You determine what your report should look like and this can be achieved by simply 'designing' your report in a Word document (=template). This Word template allows you to use all the functionalities that Microsoft Word has to offer. Use a "code word" in the places where you want the data from the database to be inserted.

You may use these code words, or simply "codes", in various places:

- 1. As plain text in a paragraph.
- 2. In a bulleted list.
- 3. In a table.

These codes may be used for various purposes. This should always follow a specific syntax:

- 1. To start a data set from an SQL statement: [BEGIN:MY_RECORDSET_CODE]
- 2. To close a data set from an SQL statement: [END:MY_RECORDSET_CODE]
- 3. To retrieve data from an SQL statement: [MY_COLUMN_NAME]
- 4. To display data conditionally: [IF:MY_CHECK] ... content if MY_CHECK = 1 ... [ELSE:MY_CHECK] ... content if MY_CHECK = 0 ... (not mandatory if empty) [ENDIF:MY_CHECK] MY_CHECK is a column from an SQL statement that returns a 1 or 0.
- To display images from the database: [IMG:MY_BLOB_COLUMN] MY_BLOB_COLUMN is a column from an SQL statement that returns a BLOB containing an image.

The symbols for start and end tag can be entered via "Edit Document Info". By default it is set to the left and right square brackets.

Orders overview - Overview of all orders	Actions - OPreview
SQL PL/SQL Templates Parameters	 ✓ Edit Document Info ⊕ Move Iso Copy © Export
SQL Statements	

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EDIT Docum	nent Info
* Document Name [?]	Order overview
Description [?]	Overview of all orders
* Folder [?]	MY_DOCUMENTS
Begin Tag [?] End Tag [?]	

When you generate your report in the next step, your report will look exactly the same as the one that you have chosen in your Word template. The codes will be replaced by the data that you require from your SELECT statements. If you have placed the codes in a table, then Doxxy will automatically display the correct number of rows according to the number of records that is returned by the corresponding SELECT statement. If there is a code in a bulleted list, then the list will also contain the correct number of items according to the corresponding SELECT statement.

This section explains how to create your template. Please refer to the example in the next section for more information about displaying conditional data and displaying images in your report.

To create your template, please open Microsoft Word. Design your document in the way you want the data to be displayed: titles, tables, lists, headers and footers, and images, ... If you want to insert data from an SQL statement, you have three display options to choose from, namely: paragraph, bulleted list or table.

Some concrete examples:

Paragraph

[BEGIN:ORDERS]Customer [CUST_NAME] made an order on [ORDER_DATE]. He had to pay €[ORDER_TOTAL] for the ordered products.[END:ORDERS]

Bulleted list

• [BEGIN:ORDERS][CUST_NAME] - [ORDER_DATE] - €[ORDER_TOTAL][END:ORDERS]

Table

Customer Name	Order Date	Order Total (€)
[BEGIN:ORDERS] [CUST_NAME]	[ORDER_DATE]	[ORDER_TOTAL] [END:ORDERS]

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Important notes

- 1. It is mandatory to use the BEGIN and END tags to indicate the beginning and end of a statement, regardless of the selected view.
- 2. The codes used in the BEGIN and END tags refer to the Recordset Codes from the SQL statements. To achieve better readability, it is recommended to always use capital letters for these codes, e.g. [BEGIN:ORDERS].
- 3. The codes used to refer to the column names in SQL statements, should also be done in capital letters, e.g. [CUST_NAME], [ORDER_DATE] and [ORDER_TOTAL].

This is an example of a possible template in Word:

This report gives you an overvi	iew of all orders				
This report gives you an overvi Customer Name	iew of all orders Order Date	Order Total (€)			

Give your template a descriptive name, e.g. orders_template.docx and save it.

Return to your document in the Doxxy web application. Navigate to the appropriate folder and select the document that you would like to add a template to (the same one that you have just written the SQL statement for).

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Use the "Templates" tab, to load your templates. Right now, the list of loaded templates is empty.

Orders overvie	Orders overview - Overview of all orders		Actions - The Preview
SQL PL/SQL	Templates	arameters	
Templates			Create Template
No Templates fou	nd.	Search C Reset	

To add a template, click on the "Create Template" button on the "Templates" tab, or click on the "+" icon that appears when you hover over "Templates" in the expanded tree. Complete the fields.

CREATE Template		3
Document [?] Orders overview * Template Name [?] Orders Template		
Upload New Template [?] Browse orders_template.docx Template Format [?] DOCX		l
Description [?] Template for the Order Overview document.	Z	
	Cancel Cr	eate

Template Name

Choose a clear and unique name for your document template.

Upload New Template

Select the previously saved Word document that will serve as a template. The document name will also be the file name.

My first renor	rt
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Template Format

Bestandstype van de template. Op dit moment kan je enkel DOCX aanduiden.

Description

Here you can enter information about your template.

To confirm the creation of your document template, click on the "Create" button. You will see that your template has been uploaded.

Orders overview - Overview of all orders			Actions -	Previ	
SQL PL/SQL	Templates	arameters			
Templates				Create Ter	nplate
		Q Search 🧭 Reset			
Name	Туре	C Search C Reset	Description		
Name 🗨 Orders Template	Type DOCX	Reset Reset Greenee Greenee Greenee Greenee Greenee Greeneee Greeneeeeeeeeeeeeeeeeeeeeeeeeeeeeeee	Description Template for the Order Overview document.		â
Name Orders Template	Type DOCX	Q Search C Reset Filename orders_template.docx	Description Template for the Order Overview document.		∄ 1-1

You can upload multiple templates for a document. When generating your report, you will choose according to which template you want the report generator to display your data. This can be useful if you want to create e.g. an English and a German version of the same report. In this case you will create two templates: one in English and one in German.

To add multiple templates, please repeat the previous step. Click on the name of the template, if you want to view or customize an existing template. It is possible to upload the customised version again.

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4.4 REQUEST A PREVIEW (PREVIEW)

Once you have selected the data that you require and your templates have been uploaded in the Doxxy tool, you can review your report by requesting a preview.

In Doxxy, go to the list of your created documents. Select the appropriate document, and click on the "Preview" button in the upper-right corner to generate your report.

Orders overview - Overview of all orders			Actions ~	Preview				
SQL P	PL/SQL Templates	Parameters						

Another useful way in which you can request a preview, is to use the "eye" icon that appears when you hover over the document that you want to review in the tree.



In both cases, the "Generate Preview" screen will appear.

The report can be downloaded once you have selected the appropriate template.

Choose which template Doxxy must use to generate your report. The selection boxes will automatically include all your previously loaded templates. If you have used parameters, you can also enter the values here. Parameters will be covered in the example, in the next section.

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Press the "Download Preview" button. If everything goes as expected, a report will be generated that can be saved and opened.

Generate Preview	ж
* Template [?] Orders Template • * Output format [?] DOCX • No Parameters	
Cancel Show API Call Download Pre	view

The default **output format** is DOCX. If your license includes the PDF option, you can also choose PDF as output format.

You can review the result by opening the downloaded preview.

uers			
is report gives you an ove	erview of all orders	1	
Customer Name	Order Date	Order Total (€)	
John Dulles	23-08-2013	2,380.00	
William Hartsfield	17-08-2013	1,640.00	
William Hartsfield	07-07-2013	730.00	
Edward Logan	30-07-2013	1,515.00	
Edward Logan	20-07-2013	905.00	
Edward "Butch" OHare	18-07-2013	1,060.00	
Fiorello LaGuardia	09-08-2013	1,090.00	
Albert Lambert	04-08-2013	950.00	
Eugene Bradley	26-08-2013	1,890.00	
	22-06-2012	870.00	

For this particular document, you can repeat steps 2 to 4 as many times as you want, until you achieve the desired result.

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4.5 RETRIEVE A REPORT (RUN)

When you are done with your report in Doxxy, you will want to load it from within your own application. The retrieve function was designed for this purpose. By using a number of parameters, you will provide the information required and the input parameters. You will receive a generated document in the form of a BLOB.

The retrieve function includes a basic (simpler, but more limited) and a generic (slightly more complicated, but more complete) form. Both of these are located in the BL\$DG4O_INTERFACE package, under the database schema where Doxxy is installed.

Limited form

FUNCTION generate document((p document IN VARCHAR2
—	,p_document_template_name IN VARCHAR2
	,p bind variable name 1 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_text_1 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_name_2 IN VARCHAR2 DEFAULT NULL
	<pre>,p_bind_variable_text_2 IN VARCHAR2 DEFAULT NULL</pre>
	,p_bind_variable_name_3 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_number_3 IN NUMBER DEFAULT NULL
	,p_bind_variable_name_4 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_number_4 IN NUMBER DEFAULT NULL
	,p_bind_variable_name_5 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_date_5 IN DATE DEFAULT NULL
	,p_bind_variable_name_6 IN VARCHAR2 DEFAULT NULL
	,p_bind_variable_date_6 IN DATE DEFAULT NULL
	,p_application_key IN VARCHAR2 DEFAULT NULL
	,p_user_id IN dg4o_users.username%TYPE DEFAULT NULL
	<pre>,p_format IN VARCHAR2 DEFAULT 'DOCX')</pre>
RETURN BLOB;	

Enter the parameters as follows:

- Use the "p_document" parameter to select the document that you require. The name of the document and *the full path* should be specified, please note that these are *case sensitive*. For this report example, we used:
 p_document => '/MY_FOLDER/My Documents/Orders overview'
- Use the "p_document_template_name" parameter to select the template that you require.
 For our sample report, we used:
 p_document_template_name => 'Orders Template'

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You have two parameter options in which you can enter the VARCHAR2 data type, two parameters for the NUMBER data type and two parameters for the DATE data type. This can cause a restriction if your report requires multiple parameters. In that case, you will use the more generic way of the retrieve function (see below).
 In our example report, no parameters were defined. Imagine, however, if we had created a parameter P_ORDER_ID, which was expecting a numeric value as input, then the parameter can be used as follows:
 p_bind_variable_name_3 => 'P_ORDER_ID',

p_bind_variable_number_3 => 1 (for order id 1)

- Use the "p_application_key" parameter to specify the application key, if it is required for the document. For more information about application keys, please see the "Admin options" section. No application key is required for our sample report.
- Use the parameter "p_user_id" to pass the username. This parameter is provided for future development in a next release and does not apply yet.
- Use the parameter "p_format" to specify the required output format; in the TRIAL-version, by default, only DOCX is possible. If you have a license for the PDF option, you can also specify PDF here.

Generic form

```
FUNCTION generate_document( p_document IN VARCHAR2
,p_document_template_name IN VARCHAR2
,p_bind_variables IN bind_variables_t
,p_application_key IN VARCHAR2 DEFAULT NULL
,p_user_id IN dg4o_users.username%TYPE DEFAULT NULL
,p_format IN VARCHAR2 DEFAULT 'DOCX')
RETURN BLOB
```

Enter the parameters as follows:

- Use the "p_document" parameter to select the document that you require. The name of the document and *the full path* should be specified, please note that these are *case sensitive*. For our sample report, we used:
 p_document => '/MY_FOLDER/My Documents/Orders overview'
- Use the "p_document_template_name" parameter to select the template that you require.
 For our sample report, we used:
 p_document_template_name => 'Orders Template'

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 - You will then only have one record type parameter, instead of a set of parameters, to submit the input data.
 In our example, no parameters were defined. Imagine, however, if we had created a parameter P_ORDER_ID, which was expecting a numeric value as input parameter, then you can be used as follows:

```
p_bind_variables => l_bind_variables
You'll need to specify l_bind_variables in advance:
I_bind_variables('P_ORDER_ID').number_value := 1; (for order id 1)
```

• The parameters "p_application_key", "p_user_id" and "p_format" have the same meaning in the generic form, as in the limited form.

Example

In order to use these functions in your own application, you will need a GRANT on the package which is associated with the retrieve functions, namely, BL\$DG4O_INTERFACE package. A useful tip is to also create a synonym (public or not), e.g. BL\$DG4O_INTERFACE.

You can generate your document by performing the following procedure in your application (this uses the generic form of the retrieve function).

```
DECLARE
    l_bind_variables BL$DG40_INTERFACE.bind_variables_t;
    l_doc BLOB;
BEGIN
    l_bind_variables('P_ORDER_ID').number_value := 1;
    l_doc := BL$DG40_INTERFACE.generate_document
        (p_document => '/MY_FOLDER/My_Documents/Orders overview'
        ,p_document_template_name => 'Orders Template'
        ,p_bind_variables => l_bind_variables
        ,p_application_key => ''
        ,p_user_id => ''
        ,p_format => 'DOCX');
END;
```

This procedure will create a BLOB, which contains your DOCX document. You can also perform other actions in your application (download, preview, print, ...).

Тір

Use the "Show API Call" button in the "Generate Preview" screen to generate this PL/SQL code. You can copy and paste this code in your own application.

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Generate Preview			×
 ★ Template [?] Orders Template ▼ ★ Output format [?] DOCX ▼ No Parameters 			
	Cancel	Show API Call	Download Preview

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5 A PRACTICAL EXAMPLE

5.1 SITUATION

This chapter contains a complete example that makes use of DEMO tables; these are also used in the Sample Application in APEX.



The sample report is an "**Order confirmation**". It shows an order confirmation letter with an overview of all the ordered items. A copy of all the ordered items is attached to the letter. You can request a report for one specific order or for all the orders together. The latter results in one letter per order, grouped together and in succession in a Word document.

Ар	ractical example
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ar Lagene,			reaction descent reaction			
 Biouse (£300.00) 	e have following products reserved for you:					
 Business Shirt (6500.00) Trousers (6640.00) 						
e total amount of your order is €1,4	440.00.	1				
ur order has reference number 1. K ntacting us. sale find enclosed a detailed summs	eep this number and this confirmation with you when any of your order.					
hope you enjoy your purchase!						
e Doxxy team dvlae nv		1				
	ber r i		and the state in the			
	blandans/tail/erst	Appendix: S	ummary of your order	with reference	number 2	
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A practical exampl			
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Doxxy

5.2 **DEVELOPMENT**

This is what the "Order Confirmation" sample report will look like in Doxxy.

olders or	eate Folder	> 🖀 DOXXY > 🖀	DEMO > Corder Confirmation			
Search Documents X	< Dorder Source	PL/SQL Tem	Order confirmation letter including an overv splates Parameters Q Search C Reset	lew of the ordered	Actions *	Previe te SQL
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►-	- Orde	ərs	Orders — Customers	-	1	* *
Parameters SYSTEM MY_FOLDER	- Orde Orde	ers HS	Orders Customers Items	• • •		* * *

This paragraph will explain how we created the document.

5.2.1 CREATE A FOLDER AND DOCUMENT (START)

Create a new folder or navigate to the desired folder. Create a new document, name it "Order Confirmation" and save it in this folder.

5.2.2 SELECT DATA (WHAT?)

For this report, we will need data from different tables. These must be selected using the appropriate SQL statements.

5.2.2.1 ORDERS

We will obviously need the data from the orders itself. These are located in the DEMO_ORDERS table.

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We want to incorporate the ability to:

- choose to either print one letter for an order, or
- to print all letters for all orders in succession.

For this we will need a parameter, namely P_ORDER_ID. In order to use a parameter in the SQL statement, we must first create it. Parameters can be created by using the "Parameters" tab.

SQL PL/SQL	Templates	Parameters		
• Parameter	6			Create Parameter
		Q Search	C Reset	
No Parameters f	ound.			

CREATE Para	meter		×
Document [?] * Display Name [?] * Bind Variable Name [?] * Data Type [?]	Order Confirmation Order Id P_ORDER_ID Number		
Default Value [?]	1		
Description [?]	Enter a specific order id or leave empty to retrieve all orders (just for demo reasons)	Z	
		Cancel	Create

We can retrieve the parameters in the SQL statement, by using the colon notation of the "Bind Variable Name", e.g. :P_ORDER_ID.

Ар	ractical example
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Click on the "SQL" tab or on "SQL Statements" in the tree to create a new SQL statement. Add the appropriate WHERE clause to control the parameter.

The "Orders" SQL statement will look like this:

```
SELECT o.order_id,
TO_CHAR(o.order_timestamp, 'fmDD month YYYY', 'nls_date_language=american')
order_timestamp,
TRIM(TO_CHAR(o.order_total, '999G999D00')) order_total
FROM demo_orders o
WHERE (o.order_id = :P_ORDER_ID OR :P_ORDER_ID IS NULL)
```

The ORDER_TIMESTAMP column is used to date the letter.

The ORDER_TOTAL column is duplicated in the letter.

Please note that the ORDER_ID is also selected (this is <u>not</u> the same as P_ORDER_ID). The ORDER_ID column will be used as a link between the different statements.

This statement is the master statement of the report. It has no parent of its own.

Please note that there is an overview of the "Parameters" to the right of the SQL statement. It is also possible to create or modify the parameters by using the "Parameters" box.

If you want to add a parameter to a SQL statement, you can use the colon notation.

An easier way to achieve this, is placing the cursor in the appropriate position in the statement, and clicking the name of the parameter. The parameter will automatically appear in the right notation in the SQL statement.

If the parameter was correctly added to the SQL statement, it will be marked in light blue in the overview. Additionally, it will get a green checkmark, if everything was saved successfully.

Through "Usage in Document" we select the desired view, in this case the "Page Break". This is basically the same as "Paragraph" (aka "Global Document" in the previous version of Doxxy), but only with the added functionality which will add an implicit page break to each new order. This way, each new order will automatically appear on a new page.

For "Recordset Code", we will select "ORDERS".

The data from this statement will be displayed in the "Body of a document".

Save your SQL statement by clicking the "Create" button.

Once you've successfully gone through all the above steps, you should get the following result:

ractical example	Ар	
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Parent SQL Statement [?]	Pa	arameters	Create
SQL Statement [?]	•	P_ORDER_ID	#123
<pre>2 TO_CHAR(o.order_timestamp, 'fmDD month YYYY', 'nls_date_language=american') 3 order_timestamp, 4 TRIM(TO_CHAR(o.order_total, '999G999D00')) order</pre>	total		
5 FROM demo_orders o 6 WHERE (o.order_id = :P_ORDER_ID OR :P_ORDER_ID IS NUL 7	L)		
5 FROM demo_orders o 6 WHERE (o.order_id = :P_ORDER_ID OR :P_ORDER_ID IS NUL Parse SQL Copy from SQL Usage In Document * Records t Code	L) #		

5.2.2.2 CUSTOMERS

The order confirmation is addressed to the customer in the right-hand corner. In order to print the customer details, we will have to select them from the DEMO_CUSTOMERS table.

We only want to view the customer details which are associated with a particular order (ORDER_ID from the previous SQL-statement) for the letter that we want to print. For this, we will add a WHERE clause to the statement of the customers, namely WHERE order_id = :ORDER_ID.

The "Customers" SQL statement will look like this:

```
SELECT c.cust_first_name,
    c.cust_first_name || ' ' || c.cust_last_name cust_name,
    c.cust_street_address1 ||
    DECODE(c.cust_street_address2, NULL, NULL, ', ' || c.cust_street_address1)
    cust_street,
    c.cust_city || ', ' || c.cust_state || ' ' || c.cust_postal_code cust_city
    FROM demo_orders o
    JOIN demo_customers c ON o.customer_id = c.customer_id
    WHERE o.order_id = :ORDER_ID
```

In this case, the orders are the "masters", while the customer details are the "details" of a specific order. As "Parent SQL Statement" we will therefore enter the "Orders" SQL statement. By completing the parent statement, you will see an overview of the "Link Variables" with all the columns from the parent statement on the right-hand side. These columns can be used to link or "bind" the detail statement with the parent statement, in other words, the columns that can be linked.

Ар	ractical example
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If you have created the "Order" parent statement correctly, the ORDER_ID column will be displayed between the "Link Variables". The reference to the link variable will again take place through the colon notation. If done correctly, the link variable will change to light blue in the overview. (If the link was saved, a green checkmark will appear).

We use "Usage in Document" to select the desired view, in this case "Paragraph".

As "Recordset Code", we will select "CUSTOMERS".

The data from this statement will be displayed in the "Body of a document".

Save your SQL statement by clicking the "Create" button.

Once you've successfully gone through all the above steps, you should get the following result:

Orders	Link Variables	
SQL Statement (?)		#123
<pre>SELECT c.cust_first_name, c.cust_first_name.ll '_' ll c.cust_last_name.cust_name</pre>	ORDER_TIMESTAMP	ABC
<pre>2</pre>	ORDER_TOTAL	ABC
<pre>5 cust_street, 6 c.cust_city ', ' c.cust_state ' ' c.cust_postal_code cust_city 7 FROM demo_orders o 8 JOIN demo_customers c ON o.customer_id = c.customer_id 9 WHERE o.order_id = :ORDER_ID</pre>	Parameters •	Create
Parse SQL Copy from SQL	P_ORDER_ID #12	8
Usage In Document * Recordset Code * Document Area		

	Ap	oractical example
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▼--- ► MY_FOLDER
 ▼--- ► My Documents
 ▼--- ► Order Confirmation
 ▼--- ► SQL Statements
 ▼--- Orders
 Customers

Note the visualized master-details structure between the different queries in the tree to the left.

5.2.2.3 ITEMS (LIST)

The items are printed twice in this report, each time in a different view. The ordered items are listed in the letter. The items are displayed in a table window on the second page of the attachment.

For this list, we only need two columns, namely the product name and the price.

Moreover, we only need the ordered items for the order that we want to print. We will achieve this by adding a WHERE clause again,

namely WHERE order_id = :ORDER_ID, with ORDER_ID as the column from the parent SQL statement "Orders".

The "Items" SQL statement will be displayed as follows:

For "Parent SQL" we will enter the "Orders" SQL statement.

By using "Usage in Document", we select the desired view, in this case "List".

For "Recordset Code" we will select "ITEMS_LIST".

The data from this statement will be displayed in the "Body of a document".

Finally, we will check that the link variable, ORDER_ID, is highlighted (light blue).

Save your SQL statement by clicking the "Create" button.

Ар	ractical example
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```
iAdvise
```

Once you've successfully gone through all the above steps, you should get the following result:

arent SQL Sta Orders	tement (?)	Link Variables	
SOL Statem	ant (a)	✓ ORDER_ID	123
1 SELECT	p.product name,	ORDER_TIMESTAMP	ABC
'999G99	9D00')) total_price		
4 JOIN 5 WHERE 6 ORDER 7	demo_order_items i demo_product_info p ON i.product_id = p.pro i.order_id = :ORDER_ID BY p.product_name	OHDER_TOTAL A Parameters O Crea	ate
4 JOIN 5 WHERE 6 ORDER 7 8 Parse SQL	<pre>demo_order_items i demo_product_info p ON i.product_id = p.pro i.order_id = :ORDER_ID BY p.product_name Copy from SQL</pre>	OHDER_IOIAL A Parameters O Crea P_ORDER_ID #123	ate

5.2.2.4 ITEMS (TABLE)

We actually need two almost equal sets of data for this report. You only have to select this data from a single SQL statement, once.

This SQL statement is analogous to the SQL statement for "Items (list)". We only need some additional columns, such as a BLOB column for the image of the product. We can expand this statement with these additional columns.

The "Items" SQL statement will look like this:

```
SELECT p.product_name,
    p.product_description,
    TRIM(TO_CHAR(i.unit_price, '999G999D00')) unit_price,
    i.quantity,
    TRIM(TO_CHAR(i.unit_price * i.quantity, '999G999D00')) total_price,
    DECODE(p.product_avail, 'Y', 1, 0) product_avail,
    bl$dg4o_interface.img(p.product_image,2,2) photo,
    SIGN(NVL(dbms_lob.getlength(p.product_image), 0)) check_photo
    FROM demo_order_items i
    JOIN demo_product_info p ON i.product_id = p.product_id
    WHERE i.order_id = :ORDER_ID
    ORDER BY p.product_name
```

Ар	ractical example
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The column "Photo" selects the BLOB that contains the image of the product. Use the specific API call to retrieve this image:

bl\$dg4o_interface.img(<image-blob-column>, <width>, <height>,<indicator>)

The function has the following parameters:

- the BLOB column containing the image
- the width of the image in the Word document (in cm)
- the height of the image in the Word document (in cm)
- an indicator [0/1] to determine if the original proportions of the image need to be maintained

In case both the width and height are NULL, then the original measurements of the image are used.

Example:

```
SELECT bl$dg4o_interface.img(product_image, 2, 2) AS tag_in_document
FROM demo product info;
```

Please also note that two additional columns have been added in order to display the conditional data in the templates:

- 1. The PRODUCT_AVAIL column returns the values 1 or 0 respectively, to indicate whether the product is available or not. If the product is available, it will be printed in black. If the product is no longer available, the product will be displayed in red.
- 2. The CHECK_PHOTO is required to show a "blank photo" if no BLOB could be found for a specific product in the database. This column will also display a 1 (picture in database) or 0 (no picture in database).

Edit the statement of the "Items" statement.

Next, we have to indicate that we need the data to be displayed in an additional view, namely table layout. To do this, simply click on the "Add" button, under "Usage in Document" below. In this way we can add as many views as we want. For this example, we used "Table". For "Recordset Code" we will enter the unique code "ITEMS_TABLE". The table will be displayed in the "Body of a document".

Click on the "Save Changes" button to save the changes to your SQL statement.

Once you've successfully gone through all the above steps, you should get the following result:

ractical example	A practical exar	
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iAdvise

Orders -	nt (?)		Link Variables	
SOL Statement (2)				#123
1 SELECT p.pr	oduct_name,		ORDER_TIMESTAMP	ABC
2 p.pr 3 TRIM 4 i.qu	<pre>oduct_description, (TO_CHAR(i.unit_price, antity,</pre>	'999G999D00')) unit_price,	ORDER_TOTAL	ABC
9 FROM demo 10 JOIN demo	_order_items i _product_info p ON i.p	product_id = p.product_id	Parameters •	Create
oneck_photo 9 FROM demo 10 JOIN demo 11 WHERE i.or 12 ORDER BY p.	_order_items i _product_info p ON i.p der_id = :ORDER_ID product_name	product_id = p.product_id	Parameters	23
Parse SQL C	_order_items i _product_info p ON i.p der_id = :ORDER_ID product_name opy from SQL	product_id = p.product_id	Parameters	23
Parse SQL C Usage In Documen	_order_items i _product_info p ON i.p der_id = :ORDER_ID product_name opy from SQL t *Recordset Code	<pre>product_id p.product_id * Document Area</pre>	Parameters	23
Parse SQL C Usage In Documen	_order_items i _product_info p ON i.p der_id = :ORDER_ID product_name opy from SQL t * Recordset Code	* Document Area Body of a document	Parameters	23

5.2.2.5 PRODUCT AVAILABLE

If at least one product from the ordered items is no longer available, we want an additional warning to be displayed at the bottom of the report. To achieve this, we will also need a type of "check" column. We select this by using the last "Product available" SQL statement.

We only want this check to happen once for the items in the order that we've just printed. We will achieve this by adding a WHERE clause again,

namely WHERE order_id = :ORDER_ID.

The "Product Available" SQL statement will look like this:

```
SELECT SIGN(COUNT(1)) check_product_avail
FROM demo_order_items i
JOIN demo_product_info p ON i.product_id = p.product_id
WHERE i.order_id = :ORDER_ID
AND p.product_avail <> 'Y'
```

For "Parent SQL" we will enter the "Orders" SQL statement.

A practical examp	
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We use "Usage in Document" to select the desired view, in this case "Paragraph". For "Recordset Code, we will select "PRODUCT_AVAIL".

The data from this statement will be displayed in the "Body of a document".

Finally, we will check that the link variable, ORDER_ID, is highlighted (light blue).

Save your SQL statement by clicking the "Create" button.

Once you've successfully gone through all the above steps, you should get the following result:

arent SQL Statement (?) Orders	Link Variables	
SQL Statement (2)	✓ ORDER_ID	#123
<pre>1 SELECT SIGN(COUNT(1)) check_product_avail 2 FROM demo_order_items i, 3 demo_product_info p 4 WHERE i.product_id = p.product_id 5 AND i.order_id = :ORDER ID 6 AND p.product_avail <> Ty' 7 7</pre>	ORDER_TIMESTAMP ORDER_TOTAL	ABC
Parse SQL Copy from SQL Usage In Document * Recordset Code * Document Area	Parameters •	Create
Paragraph V PRODUCT AVAIL Body of a document		

5.2.3 CREATE A TEMPLATE (HOW?)

The template consists of two pages:

- 1. The first page contains the <u>letter</u> to the customer, with a summary of the ordered items in a bulleted list.
- 2. The second page contains the <u>appendix</u> that displays a summary table of the ordered items, together with a picture of the relevant product.

Ар	ractical example
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5.2.3.1 THE LETTER

Doxxy	Printed on { TIME \@ "d/MM/yyyy" }
iAdvıse	[BEGIN:ORDERS] ORDER CONFIRMATION
	[BEGIN:CUSTOMERS] [CUST_NAME] [CUST_STREET] [CUST_CITY]
Your reference number: [ORDER_ID]	
	Kontich, [ORDER_TIMESTAMP]
Dear [CUST_FIRST_NAME],	
Thank you for shopping at iAdvise. W	e have following products reserved for you:
 [BEGIN:ITEMS_LIST][PRODUC 	CT_NAME] (€[TOTAL_PRICE])[END:ITEMS_LIST]
Your order has reference number [OR you when contacting us. Please find enclosed a detailed summ	NDER_ID]. Keep this number and this confirmation with lary of your order.
We hope you enjoy your purchase!	
The Doxxy team iAdvise nv[END:CUSTOMERS]	

A practical example		ractical example
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Fixed image in the template

The company logo is displayed in the top-left corner of the letter. The logo can be added, by simply importing the logo into the Word document.

Microsoft Word features

Headers and footnotes: Microsoft Word has a feature which allows you to simply add headers and footnotes.

Adding data from the database

If you want to record data from the database anywhere in your letter, you can do so by simply using the following notation

[BEGIN: MY_RECORDSET_CODE][MY_COLUMN_NAME][END: MY_RECORDSET_CODE]

Example:

[BEGIN: CUSTOMERS][CUST_NAME] ... [END: CUSTOMERS]

These codes must be an exact replication of the column aliases in the SQL statements.

Please note that the tag for closing the Recordset Code "ORDERS" is not displayed on this page. This will be displayed in the attachment at the bottom of the next page. In this way, we can also use columns from the ORDER statement on the next page.

The attentive reader should also remember that we selected "Page Break" as "Usage Document" under "Orders". In this way, a new page will be used for each new order.

Bulleted lists

Bulleted lists can be displayed by using the following notation:

• [BEGIN:ORDERS][CUST_NAME] – [ORDER_DATE] - €[ORDER_TOTAL][END:ORDERS]

The codes for the recordset and the columns must be an exact match.

A practical e	Ар	ractical example
ual .02 43	Doxxy – User Manual Version: 01.02	43 - 69

5.2.3.2 THE APPENDIX

Appendix: Summary of your order with reference number [ORDER_ID] Product A Description Image Unit Price in & Quantity Extende Price in A Description [BEGIN:TEMS_TAB [IF:PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL[PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] [IF:PRODUCT_AVAIL][PRODUCT_T_AVAIL] PRICE[ELS: PRICE [ES:PRODUCT_AVAIL] Image Imag	Appendix: Summary of your order with reference number [ORDER_1D] Your of secription Image Unit Price in & Quantity Option [IEEGIN:TEMS, TAS [IF:PRODUCT_AVALI[IPRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRODUCT_AVALI][PRO				Printed	on { TIME \@ "	d/MM/yyyy
Product Description Image Unit Price in € Quantity Extende Price in [BEGIN:TEMS_TAB_ LE][F:PRODUCT_A VAIL][PRODUCT_AVAIL][PRODUCT_ VAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] DUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] DUCT_AVAIL] (IF:PRODUCT_AVAIL][PRODUCT_AVAIL] [ELSE:CHECK_P IF:PRODUCT_AVAIL VAIL][UNIT_PRICE] (IF:PRODUCT_AVAIL DUCT_AVAIL] PRICE[IS:PRODUCT_AVAIL] DUCT_AVAIL] PRICE[IS:PRODUCT_AVAIL] PRODUCT_AVAIL] PRICE[IS:PRODUCT_AVAIL] PRICE[IS:PRODUC	Product Description Image Unit Price in € Quantity Extende Price in [IEGIN:TIEMS_TAB [IE:PRODUCT_AU_ LIC_DESCRIPTION][ELSE:P AVAIL[PRODUCT_AU_ AUXIL[PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][UNIT_PRICE][ELSE: PRODUCT_AUXIL][PRODUC_C_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL][PRODUCT_AUXIL] [IE:SE:PREDUCT_AUXIL][PRODUCT_C_AUXIL] [IE:SE:PREDUCT_AUXIL][PRODUCT_C_AUXIL] [IE:SE:PREDUCT_AUXIL][PRODUCT_C_AUXIL] [IE:SE:PREDUCT_AUXIL][PRODUCT_C_AUXIL] [IE:SE:PREDUCT_AUXIL][PRODUCT_C_AUXIL] [IE:SE:PREDUCT_AUXIL] [IE:DII:PRODUCT_C_AUXIL] [IE:DII:PRODUCT_C_T_AUXIL] [IE:IE:PREDUCT_C_T_AUXIL] [IE:IE:PREDUCT_C_T_AUXIL] [IE:IE:IE:PREDUCT_C_T_AUXIL] [IE:IE:IE:IE:IE:IE:IE:IE:IE:IE:IE:IE:IE:I	Appendix: Sur	nmary of your order	with reference	ce number [OR	DER_ID]	
[BEGIN:TEMS_TAB LE][F:PRODUCT_AVAIL][PRODUCT_AVAIL][PROD VAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] DESCRIPTION][ENDIF:PRODUC T_AVAIL] [IF:PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] DUCT_AVAIL] PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] [CLSE:PRODUCT_AVAIL] PRODUCT_AVAIL [CLSE:PRODUCT_AVAIL] T_NAME[(*][ENDIF:PRODUCT_AVAIL] DUCT_AVAIL] PRODUCT_AVAIL] [CLSE:CHECK_PRODUCT_AVAIL] PRODUCT_AVAIL [CLSE:CHECK_PRODUCT_AVAIL] PRODUCT_AVAIL [CNDIF:PRODUCT_AVAIL] T_AVAIL] DUCT_AVAIL] IF:PRODUCT_AVAIL] PRODUCT_AVAIL [CNDIF:PRODUCT_AVAIL] PRODUCT_AVAIL [CNDIF:PRODUCT_AVAIL] [ENDIF:PRODUCT_AVAIL] DUCT_AVAIL] IF:PRODUCT_AVAIL] PRODUCT_AVAIL PRODUCT_AVAIL [CNDIF:PRODUCT_AVAIL] [CODUCT_AVAIL] IF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL [ENDIF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL [ENDIF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL [BEGIN:PRODUCT_AVAIL] IF:PRODUCT_AVAIL] IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL IF:PRODUCT_AVAIL [BEGIN:PRODUC	[BEGIN:TEMS_TAB [IF:PRODUCT_AVAIL[[PROD [IF:PRODUCT_AVAIL[[PROD [IF:PRODUCT_AVAIL[[PROD [IF:PRODUCT_AVAIL[[PRODUCT_VAIL][PROD [IF:PRODUCT_AVAIL[[PRODUCT_AVAIL[[PRODUCT_AVAIL[[PRODUCT_AVAIL[[PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL[[PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] [IF:PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] PRICE[[IE:SE:PRODUCT_AVAIL][PRODUCT_AVAIL][PRODUCT_AVAIL] T_AVAIL] DUCT_AVAIL] DUCT_AVAIL] DUCT_AVAIL] PRICE[[IE:SE:PRODUCT_AVAIL]] PRICE[[IE:SE:PRODUCT_AVAIL]] T_AVAIL] DUCT_AVAIL] DUCT_AVAIL] DUCT_AVAIL] PRICE[[IE:SE:PRODUCT_AVAIL]] PRICE][IE:SE:PRODUCT_AVAIL] PRICE][IE:SE:PRODUCT_AVAIL] <th>Product</th> <th>Description</th> <th>Image</th> <th>Unit Price in €</th> <th>Quantity</th> <th>Extende Price in</th>	Product	Description	Image	Unit Price in €	Quantity	Extende Price in
[ENDIF-CHECK_ PHOTO] [ORDER_ OTAL [BEGIN:PRODUCT_AVAIL][F:CHECK_PRODUCT_AVAIL](*) This product is currently not in stock, your order may be delayed.[ELSE:CHECK_PRODUCT_AVAIL][ENDIF:CHECK_PRODUCT_AVAIL][END:PRODUCT_AVAIL] [END:ORDERS]	[ENDIF-CHECK_PHOTO] [ORDER_ OTAL [BEGIN:PRODUCT_AVAIL][F:CHECK_PRODUCT_AVAIL][*] This product is currently not in stock, your order may be delayed.[ELSE:CHECK_PRODUCT_AVAIL][ENDIF:CHECK_PRODUCT_AVAIL][END:PRODUCT_AVAIL] [END:ORDERS]	[BEGIN:ITEMS_TAB LE][IF:PRODUCT_A VAIL][PRODUCT_N AME][ELSE:PRODU CT_AVAIL][PRODUC T_NAME] (*][ENDIF:PRODUC T_AVAIL]	[IF:PRODUCT_AVAIL][PROD UCT_DESCRIPTION][ELSE:P RODUCT_AVAIL][PRODUCT _DESCRIPTION][ENDIF:PRO DUCT_AVAIL]	IF:CHECK_PHO TO] [IMG:photo] [ELSE:CHECK_P HOTO]	[IF:PRODUCT_AV AIL][UNIT_PRICE][ELSE:PRODUCT_A VAIL][UNIT_PRICE][ENDIF:PRODUCT_ _AVAIL]	[IF:PRODUCT_ AVAIL][QUAN TITY][ELSE:PR ODUCT_AVAIL][QUANTITY][ENDIF:PRODU CT_AVAIL]	[IF:PRODUCT AVAIL][TOTA _PRICE][ELSE PRODUCT_A' ALL][TOTAL_ RICE][ENDIF: RODUCT_AV, IL][END:ITEM _TABLE
[BEGIN:PRODUCT_AVAIL][F:CHECK_PRODUCT_AVAIL](*) This product is currently not in stock, your order may be delayed.[ELSE:CHECK_PRODUCT_AVAIL][ENDIF:CHECK_PRODUCT_AVAIL][END:PRODUCT_AVAIL] [END:ORDERS]	[ORDER_ OTAL [BEGIN:PRODUCT_AVAIL][F:CHECK_PRODUCT_AVAIL]]*) This product is currently not in stock, your order may be delayed.[ELSE:CHECK_PRODUCT_AVAIL][ENDIF:CHECK_PRODUCT_AVAIL][END:PRODUCT_AVAIL] [END:ORDERS]			[ENDIF:CHECK_ PHOTO]			
		[BEGIN:PRODUCT_AN delayed.[ELSE:CHECK [END:ORDERS]	(ALL[IF:CHECK_PRODUCT_AVA	IL)(*) This product is CK_PRODUCT_AVAI	s currently not in stoc	k, your order may AIL]	be

Ар	ractical example
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Tables

To display data in a table, use the following notation:

Product	Description	 Extended Price in €
[BEGIN:ITEMS_TABLE][[PRODUCT_DESCRIPTION]	 [TOTAL_PRICE][END:ITEMS
PRODUCT_NAME]		_TABLE]

Conditional display

The conditional display of data can be done by using the following notation:

[IF:MY_CHECK] ... content if MY_CHECK = 1 ... [ELSE:MY_CHECK] ... content if MY_CHECK = 0 ... (not mandatory, if blank) [ENDIF:MY_CHECK] Here the MY_CHECK is a column from an SQL statement that returns a 1 or 0.

For example, if you want the number of products ordered to be displayed in black, if the product is still available, but you want the items to be displayed in red, if the items are no longer in stock, then it becomes (pay attention to the color):

```
[IF:PRODUCT_AVAIL][QUANTITY][ELSE:PRODUCT_AVAIL][QUANTITY][ENDIF:PRODUCT_AVAIL]
```

If you want a warning to be displayed in red, if one of the products is no longer in stock (a separate "Product avail" SQL statement is written for this check), then it becomes: [BEGIN:PRODUCT_AVAIL][IF:CHECK_PRODUCT_AVAIL](*) This product is currently not in stock, your order may be delayed. [ELSE:CHECK_PRODUCT_AVAIL][ENDIF:CHECK_PRODUCT_AVAIL] [END:PRODUCT_AVAIL]

Images from the database

To display images from the database, you will have to follow a number of steps:

 In the query, you can use a specific API call to retrieve your image: bl\$dg4o_interface.img(<image-blob-column>, <width>, <height>,<indicator>)

Example:

SELECT bl\$dg4o_interface.img(product_image, 2, 2) AS tag_in_document
FROM demo_product_info;

 You only need to add the following tag to the template: [IMG:tag_in_document]

ractical example	A pr
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5.2.4 EXTRA FUNCTIONALITY

5.2.4.1 PL/SQL STATEMENTS

Doxxy allows to execute specific "business logic", written in PL/SQL, at the beginning or end of the document generation process. This is an optional step, but it can be used, for example, to set a language code or store a trace of the report in a log table, via the "Oracle Context" mechanism.

Initially, the "PL/SQL" tab contains no lines:

Order	Confirmation	n - Order confir	nation letter including an c	verview of the ordered	Actions -	Preview
SQL	PL/SQL Ter	nplates Par	ameters			
₀ PL/	SQL Statem	ents			Creat	e PL/SQL
No PL	/SQL statements f	Q found.	Search & Reset			

In this example, we will store a record in a document logging table containing the name of the document, along with the date and time on which the document was created.

Click on the "Create PL/SQL" button in the "PL/SQL" tab, and fill in the fields. Give a meaningful name, a sequence number and a short description.

Apart from the PL/SQL code itself, it's important to indicate whether the logic should be executed "before" or "after" the creation of the document. You can specify this in the "Before or After" field.

In the example below, the code will be executed "After" the creation of the documents.

Please note, that you can also use parameters here. This example however, does not contain any parameters.

oractical example	Ар
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Create PL/SQL Statement	Cancel Create
Info	
* Name [?] Sequence [?] Write Log Entry 10 Description [?) Write a trace of the processing of this document	
Statement * Before or After [?] After	Parameters O Create
* PL/SQL Statement [?] 1 BEGIN 2 INSERT INTO demo_report_logs (document_name, log_time) 3 VALUES('Order Confirmation', SYSDATE); 4 COMMIT; 5 END; 6 Parse PL/SQL Copy from PLSQL	

5.2.4.2 VALIDATION OF THE TEMPLATE

When you upload a template, Doxxy performs a basic validation of the template structure.

In the following example, two errors were detected:

- 1. The [END: CUSTOMERS] tag is missing
- 2. The template detects a potential error with regards to the name of the recordset linked to the SQL statement retrieving the "Items" that are to be used in a MS Word List: ITEM_LIST or ITEMS_LIST.

Ар	ractical example
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CREATE Template	ж
The tag 'CUSTOMERS' is invalid for the following reason: End-tag not found. The tag 'ITEM_LIST' is invalid for the following reason: End-tag not found. The tag 'ITEMS_LIST' is invalid for the following reason: Begin-tag not found.	
Document (?) Order Confirmation	
* Template Name [?]	
Template with Error	
Browse No file selected. Download Template [confirmation_template error.docx]	
Template Format [?]	
Description [?]	
Cancel Save	Changes

5.2.4.3 META DATA SURVEY

The Doxxy tool also allows you to create a report containing all the important report metadata (SQL statements, PL/SQL statements, parameters and templates). If required, you can add this output to the technical documentation of your project.

To generate the metadata report, you first need to select the appropriate document in the tree structure on the left hand side. Next, you need to click the "Actions" button. A menu will open. Select "Print Meta Data", and the survey report will be created.



Ap	ractical example
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Below, you can see a part of the generated documentation.

		DO	CUMENTFICH
ORDER CONFIRM	ATION		
Description	Order	onfirmation letter including an overview	v of the ordered product
_	items.		
Tags	[]		
Author	DOXXY	USER	
SOI Statements	4	Orders	
sige statements	-	Customers	
		Items	
		Product Available	
PL/SQL Statements	1	Write Log Entry – After	
Parameters	1	Order Id – NUMBER	
Templates	2	Order Confirmation	
		Template with Error	
Details			
Details			
Oetails QL Statements			
Oetails QL Statements			
Oetails QL Statements Irders			
Oetails QL Statements Inders SELECT 0.0rde	r_id,		
Oetails QL Statements Orders SELECT 0.0rde TO_CHAR (0.0rd	r_id, er_tim	stamp, 'fmDD month YYYY',	
Oetails QL Statements Orders SELECT 0.0rde TO_CHAR (0.0rd 'nls_date_lan	r_id, er_tim guage=	stamp, 'fmDD month YYYY', merican')	
Octails OL Statements SELECT 0.0rde TO_CHAR (0.0rd 'nls_date_lan order_timestar	r_id, er_tim guage= mp,	stamp, 'fmDD month YYYY', merican')	
Octails QL Statements SELECT 0.0rde TO_CHAR(0.0rd 'nls_date_lan order_timestaa TRIM(TO_CHAR(EROM_demo_ord	r_id, er_tim guage= mp, o.orde	stamp, 'fmDD month YYYY', merican') _total, '999G999D00')) order_	total
Octails QL Statements SELECT 0.0rde TO_CHAR (0.0rd 'nls_date_lan order_timestat TRIM (TO_CHAR (FROM demo_ord WHERE (0.0rde	r_id, guage= mp, o.orde ers o r id =	stamp, 'fmDD month YYYY', merican') _total, '999G999D00')) order_ :P ORDER ID OR :P ORDER ID I	total S NULL)
Cetails QL Statements SELECT 0.0rde TO_CHAR(0.0rd 'nls_date_lan Order_timestat TRIM(TO_CHAR() FROM demo_ord WHERE (0.0rde	r_id, er_tim guage= mp, o.orde ers o r_id =	stamp, 'fmDD month YYYY', merican') _total, '999G999D00')) order_ :P_ORDER_ID OR :P_ORDER_ID I	total S NULL)
Octails QL Statements SELECT 0.0rde TO_CHAR (0.0rd 'nls_date_lan. order_timestat TRIM (TO_CHAR (FROM demo_ord WHERE (0.0rde Usage in documer	r_id, er_tim guage= mp, o.orde ers o r_id = nt	stamp, 'fmDD month YYYY', merican') _total, '999G999D00')) order_ :P_ORDER_ID OR :P_ORDER_ID I Recordset Code Document Ar	total S NULL)

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5.2.4.4 VISUALISATION OF THE TEMPLATE

Another clever feature is the possibility to visualize the templates of a certain document. You will get a nice overview of the tags that have been used in the template, allowing you to easily check if all the tags in the document were used correctly. Any error will be marked clearly.

To visualize your template, you first need to select the required document from the tree structure on the left hand side. Click on the "Actions" button. A list menu will appear, in which you'll need to choose "Visualize Template".



From the "Template" list, you can select the template that you want to visualize. After pressing the "Visualize" button, the structure of the recordset codes that were used (with the [BEGIN] and [END] tags), the IF tags and the column tags are displayed in a tree structure. This structure reflects how your Word template was built.

Visualize Template	ж
Template [7] Order Confirmation Visualize	
Collapse All Expand All	
▼ ∰ [begin] - orders	
🕈 🚍 [begin] - customers	
- abi cust_name	
abl cust_street	
abl cust_city	
- abi order_id	
- abi order_timestamp	
abi cust_first_name	
🕈 🚎 [begin] - items_list	
- abl product_name	
total_price	•
🔤 🚎 [end] - items_list	
··· abi order_total	
· ab order_id	
🔤 🚝 [end] - customers	
ETT order id	

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In case the template still contains errors, this is indicated with a "red cross" (x) showing on the left hand side of the erroneous element.

From the next example, you may conclude that:

- the end tag of the "customers" recordset is missing
- the "cust_name" tag is referring to a column that is not retrieved by any of the SQL statements. Probably a spelling mistake.
- There is some confusion about the recordset name of the order items: in the template both the tags "item_list" and "items_list" were found
- as the tag "item_list" is incorrect, the Doxxy engine cannot check the columns "product_name" and "total_price" against any SQL statement. Because of this, these tags also get an invalid marking.

Visualize Template	ж
Template [?] Template with Error Visualize	
Collapse All Expand All	
▼ 挂 [begin] - orders	
Kegin] - customers - INVALID (end-tag not found.)	
X cust_name - INVALID (column: cust_name was not found in the queries for this document.)	
- abl cust_street	
- abl cust_city	
abl order_id	
abi order_timestamp	
- ab cust_first_name	
🚽 🔀 [begin] - item_list - INVALID (column: item_list was not found in the queries for this document.)	
Y product_name - INVALID (column: product_name was not found in the queries for this document.)	
Kotal_price - INVALID (column: total_price was not found in the queries for this document.)	
- 💥 [end] - items_list - INVALID (begin-tag not found.)	
- jabi order_total	
··· ab order_id	
- abl order_id	
с	ancel

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6 TIPS & TRICKS

Right now, you have acquired enough information to get you started with Doxxy. However, you will occasionally want to know how to tackle a particular problem. Unfortunately, we cannot cover everything in this user manual. We will of course keep you informed of all the interesting facts and provide you with solutions to frequently asked questions.



Our website http://www.doxxy.eu is ideal for this purpose. We recommend that you visit our website regularly to stay up-to-date with the latest tips and tricks.

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d doxu		Home Pr	oduct Architecture	Demo	Support	Contact Us
Simplify with Doxx	κy			Try D	Doxxy <u>+</u>	Buy Doxxy
<	.DOCX	DATABASE				>
	Create a document in your word processor Trous word processor. IT department, or by a businiss user	Write a guery to get the data from your database	Doxy create your desired ou	s tput		
What is Doxxy?	Why Doxxy?	Simple	Architecture	Do	wnload	now
Document generation for Oracle made easy. Merge your business data with a Word-template(.docx) to create your operational document like letters, orders, invoices,	Easy to install User friendly RAD-tool Easy to embed into your application Low cost buy-in	 No massive in Pure PL/SQL Intuitive UI (O the meta data 	nfrastructure cost engine racle APEX) to maintain	Get started wi Do you want r	th Doxxy and t nore info? Cor	ry it for free. ttact us.
More	More.		More			More

If you have any questions or you need assistance with solving a problem, please do not hesitate to contact us at info@doxxy.eu. We will do our utmost to assist you with this problem as quickly as possible. Who knows, the description and associated solution to your problem might be published in the list of tips and tricks, which in turn might assist other Doxxy users in the future.

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7 DEPLOYMENT

If you want to transfer a document from a development environment to a test or production environment, you can do so by using the export / import feature provided for within the application.

7.1 EXPORT

7.1.1 EXPORT ONE DOCUMENT

A document export is <u>document</u> driven.

To export a document, just select the document you want to export from the tree. If you open the "Actions" menu, you will see an "Export" option.

Order Confirmation - Order confirmation letter including an overview of the ordered	Actions -	Preview
SQL PL/SQL Templates Parameters	 Edit Document Info Move 	
- SOL Statements	Copy Export	
	 Delete Print Meta Data 	
Q Search C Reset	✓ Visualize Template	

When choosing the "Export" option, an XML file is automatically created, which contains all the metadata and definitions of the selected document. In our example, the XML file "**de_Order_Confirmation.xml**" will be created, and the system will prompt to save the file in the location of your choice.

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7.1.2 EXPORT MULTIPLE DOCUMENTS

You can export multiple reports from the same folder altogether. This type of export is <u>folder</u> driven.

To achieve this, select the folder from the tree structure. By unfolding the "Actions menu, you'll see the option "Export Documents".

APEX - Folder containing reports on APEX metadata	Actions -
	🖍 Edit Folder Info
- Documents	 Create Subfolder
Documenta	Import Document(s)
	Export Documents
	i Delete
Q Search G Reset	

You will get an overview of all the documents in this folder. By checking the checkboxes of the required documents, you can specify which documents you want to include in the export file.

p	ort Docum	ients	
b D	ocuments		
		Q Search C Reset	
	Name	Description	Last Changed
	Overview pages	Make a report which lists all pages of a given APEX application	14-03-2014 17:08:59
	Javascript Source	Toont alle Javascripts die gebruikt worden in apex en in de packages. Toont alle plaatsen vanwaar javascript wordt aangeroepen (branches,items,body attributes, buttons,page header)	28-01-2013 20:44:00

Press the "Export" button.

Again, a XML file is created, now containing all the meta data and the definitions of <u>all</u> selected documents. In our example, the XML file "**Doxxy_multi_export.xml**" will be created, and the system will prompt to save the file in the location of your choice.

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7.2 IMPORT DOCUMENT

Importing one or more documents is always folder driven.

To import a document, just select the folder that contains the document that you want to import from the tree. If you open the "Actions" menu, you will see an "Import Document(s)" option.

My Documents - My Documents Folder	Actions -
Desuments	Edit Folder Info Create Subfolder
Documents	Import Document(s)
Q Search C Reset	 Export Documents Delete

When choosing the "Import Document(s)" option, a pop-up screen will appear where you can retrieve the exported XML file. If you then click on "Import", the file will be uploaded and the definitions are created in the Doxxy metadata tables.

Please note! If the folder that you selected already contains a document with the same name, the latter will be replaced.

Import Document	ж
BEWARE! If there are documents with the same name, they will be overwritten!	
Browse de_Order_Confirmation.xml	
Cancel	Import

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8 SYSADMIN / ADMIN OPTIONS

In Doxxy there are two "Administrator" profiles: an "Admin" and a "SYSAdmin" role.

You can find the "Administrator" privileges by unfolding the user's menu in the upper right corner. Only if your user has sufficient privileges, you will be able to access these "Admin" pages.



If your user got the "SYSAdmin"-role, the following menu options will appear:



If you only got the "Admin"-role, you will only be able to access the "Users" screen (in read mode) and the "Log Messages".

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8.1 USER ADMINISTRATION

Admin	Users
Users Applications	Q. Go Actions Create
Log Messages Log Configs	Username Full Name Phone Email # Folders
License	DOXXY_USER Doxxy User 2
Synonyms	SYSADMIN Sysadmin 2
	1 - 2

The "Users" are one of the items which you fill find in the "Admin" pages.

Here you can create users (by using the "Create" button), manage them (by clicking on the user's name) or delete them (by clicking on the trash icon).

A user always has a "Username" (to log in) and a full name. The password can also be managed here.

Please note that "Roles" should be linked to each user. There are four types of roles:

- 1. "System Administrator": a user with this role has access to all options in the Admin folder. This role is required to add users and link them to folders. You can also access logging information, and see as well as modify information with regards to licenses.
- 2. "Administrator": a user with this role has limited access to the Admin folder: check users and log messages.
- 3. "Document Editor": a user with this role can create and manage folders and documents. However, this user does not have access to the Admin pages.
- 4. "Viewer / Reader": this user can only read the data in the folders and documents. This user cannot create new folders and documents or make any changes to it.

At the bottom of the page you can decide which folder(s) a user has access to.

Note that, in the following example, the user "DOXXY_USER" got the roles "Administrator" and "Document Editor", and access to the folder "DOXXY".

SYS	SAdmin / Admin
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Admin	Create/Edit DOXXY_USER
Users Applications Log Messages Log Configs License Synonyms	* Username (?) DOXXY_USER * Full Name (?) Doxxy User Phone (?) Email (?) Roles (?) Change Password
	Cancel Apply Changes Folders Q- Go Add Folder Name Edit Document DOXXY Y

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8.2 LOGGING

Although the Doxxy team has done its utmost to create a high-quality, error-free application, there is always a possibility that errors might have slipped through.

If you encounter any errors, please contact the Doxxy support team (<u>info@doxxy.eu</u>). Depending on the problem, we might ask you to trace certain packages. There are two ways of doing this: through the "Log Configs" and "Log Messages".

8.2.1 LOG CONFIGURATIONS

You can adjust the level of the logging settings on the "Log Configs" page. This will determine the level of severity of the messages to be transmitted and to be logged in the execution of the package.

The log levels vary from 1 to 6, with log level 1 being the most strict and will therefore allow the least amount of messages to go through: only these error messages will be displayed. Log level 6 not only allows all messages to go through, such as errors and warnings, but also general information. This is really useful to debug the code.

Log Configurations		
Default Level: 1		
Q	Go Actions	Create
Package Name Log Level	Creation User	
BL\$DG40_00XML_PARTS2 6	SYSADMIN 💼	
	1 - 1	

SAdmin / Admin	SYSAdmin / A	
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•		

8.2.2 LOG MESSAGES

The results of the tracing are displayed on the "Log Messages" page. Here you will get an overview of the messages that you have generated. These messages can be exported by using the "Actions" menu and sent to the Doxxy team who will analyse it. These messages can provide the Doxxy team with useful information, which will assist them in detecting and resolving the errors.

efault Le	evel: 1					
Q			Go		Actions	
Log Dt	Log Time	Log User	<u>Info</u>	Li	Select Columns	Error Stack
7-03-2014	14:23	ADMIN	ERROR	180	T Filter	ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00234: namespace prefix "w:rPr" is not declared Error at line 2
7-03-2014	12:54	DOXXY_USER	ERROR	198	Rows Per Page	ORA-20001: unknown tag type: [[BEGIN:SQL_LINK_VARIABLES]
7-03-2014	12:49	DOXXY_USER	ERROR	198	Format	ORA-20001: unknown tag type: [[[END:SQL_TABLE]
7-03-2014	12:47	ADMIN	ERROR	180	Flashback	ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00225: end-element tag "w:body" does not match start-element tag "w:tc" Error at line 2
7-03-2014	12:39	ADMIN	ERROR	180	Save Report	ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00244: invalid use of less-than ('<') character (use ⁢) Error at line 2
7-03-2014	12:39	ADMIN	ERROR	191	() Help	ORA-20203: Document corrupt: SQL_STATEMENTS. DOCX-xml is invalid. ORA-06512: at "DG40_DEV.BL\$DG40_MESSAGES", line 181 ORA-06512: at "DG40_DEV.BL\$DG40_OOXML_PARTS2", line 1804 ORA-31011: XML parsing failed
					Download	OHA-19202: Error occurred in XML processing LPX-00244: invalid use of less-than ('<') character (use <) Error at line 2
7-03-2014	12:39	ADMIN	ERROR	1803	BL\$DG40_OOXML_PARTS2	ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00244: invalid use of less-than ('<') character (use ⁢) Error at line 2
7-03-2014	12:39	ADMIN	ERROR	1803	BL\$DG40_OOXML_PARTS2	ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00244: invalid use of less-than ('<') character (use ⁢) Error at line 2
7-03-2014	12:38	ADMIN	ERROR	1916	BL\$DG40_00XML_PARTS2	ORA-20203: Document corrupt: SQL_STATEMENTS. DOCX-xml is invalid. ORA-06512: at "DG40_DEV.BL\$DG40_MESSAGES", line 181 ORA-06512: at "DG40_DEV.BL\$DG40_OOXML_PARTS2", line 1804 ORA-31011: XML parsing failed ORA-19202: Error occurred in XML processing LPX-00244: invalid use of less-than

Use the "Purge" button in the right upper corner to clear the list of messages.

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8.3 MANAGE LICENSES

Use the "License" option to manage your license keys. By default, it will read "TRIAL". This means that you are using a free trial version of Doxxy. This trial version offers the same features as the paid version, without any functional limitation. Every single document will contain a watermark. Doxxy features (like PDF generation) are not included in the "TRIAL" version.

Admin	License				
Users Applications Log Messages Log Configs License	Version Nr (?) 0102 * Key (?) TRIAL Expiration Date (?) 31-12-9999 Install Date (?) 23-01-2013				
Synonyms	Cancel Update Key				

You can purchase a Doxxy license through our website <u>http://www.doxxy.eu</u> or by sending an e-mail to <u>info@doxxy.eu</u>. A license is valid for one Oracle database instance. We will ask you to furnish us with the database instance name in order for us to create a unique key for you. We will then send you the unique key, which must be entered on this page.

Please visit our website, for more information regarding the prices, license duration and support.

8.4 MANAGE SYNONYMS

Doxxy is typically installed in its own Oracle schema. All SQL statements are parsed within the Doxxy schema. This also means that this schema should get read privileges on the tables, views and other objects from the application that you wish to use in your SQL statements. You can then simply use these objects by prefixing them with the name of the schema from your application.

An alternative solution is that you create PRIVATE SYNONYMS for every single one of these objects in the Doxxy schema. The "Synonyms" screen allows you to do this using the Doxxy web application. It shows a list of all the objects that can be accessed by the Doxxy schema (tables, views, packages). Existing synonyms will be included in the list.

In the next example, you'll notice that for the application schema "DEMO", for some tables synonyms were created, while for others not.

SYS	SAdmin / Admin
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Admin	Overviev	v Synonyms	
Users Applications	Q-		Go Actions
Log Messages Log Configs	<u>Owner</u>	Table	<u>Synonym</u>
License	DEMO	DEMO_IMAGES	DEMO_IMAGES
Synonyms	DEMO	DEMO_USERS	DEMO_USER
	DEMO	DEMO_CUSTOMERS	DEMO_CUSTOMERS
	DEMO	DEMO_ORDERS	DEMO_ORDERS
	DEMO	DEMO_ORDER_ITEMS	DEMO_ORDER_ITEMS
	DEMO	DEMO_PRODUCT_INFO	DEMO_PRODUCT_INFO
	DEMO	DEMO_STATES	
	DEMO	DEMO_PAGE_HIERARCH	r

If you want to create a new synonym, press the $\[\circ \]$ button. Provide a name for the new synonym, and click $\[\circ \]$ to save the synonym.

DEMO DEMO STATES

Existing synonyms can be deleted by pressing the 🔳 button.

SYSAdmin / Admir	
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APPENDIX INSTALLATION

INTRODUCTION

Doxxy 01.02 comes as an export file of a Packaged Application for APEX. The file contains 1) the APEX UI and 2) all database objects, as "supporting objects".

The installation process consists of the following steps:

- 1. Create a specific Doxxy database schema.
- 2. Create a workspace in APEX and link it to the Doxxy database schema.
- 3. Log in to this workspace and import the APEX export file, including the "Supporting Objects".

Exampe script for creating a specific Doxxy schema

```
REM change password + tablespace name to your requirements
CREATE USER dg4o 0102 IDENTIFIED BY <my password>
DEFAULT TABLESPACE users TEMPORARY TABLESPACE temp
QUOTA UNLIMITED ON users;
GRANT CREATE SESSION TO dg4o 0102;
GRANT CREATE SEQUENCE TO dg4o 0102;
GRANT CREATE SYNONYM TO dg4o 0102;
GRANT CREATE PUBLIC SYNONYM TO dg4o 0102;
GRANT CREATE ANY CONTEXT TO dg4o 0102;
GRANT CREATE PROCEDURE TO dg4o 0102;
GRANT DROP PUBLIC SYNONYM TO dg4o 0102;
GRANT CREATE TYPE TO dq4o 0102;
GRANT CREATE ANY DIRECTORY TO dq4o 0102;
GRANT CREATE TRIGGER TO dg4o 0102;
GRANT CREATE VIEW TO dg4o 0102;
GRANT CREATE TABLE TO dq4o 0102;
```

This Appendix gives you the installation steps to follow during this third point.

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INSTALLATION STEPS IN APEX

This installation procedure assumes that you have already installed an APEX environment or have one available, with access to a workspace where you can install the Doxxy application.

Start in an APEX environment, and press the "Import" button to add the Doxxy application.

	tion Express						
Home Application Builder ~	SQL Workshop 🗸	Team Development 🗸	Administration 🗸				
Application Builder							
All Applications Database Applications Websheet Applications Packaged Applications							
Q* Go III III Actions * Reset Import Create >							
No applications found.	No applications found.						

This installation procedure assumes that you have already installed an APEX environment or have one available, with access to a workspace where you can install the Doxxy application.

				-0
		Specify File	File Import Confirmation	Install
Cancel				Next >
Select the file you wis	h to import to the export repository	Once imported	l, you can install your file.	
f the imported file is	a packaged application export, the	installation wiza	rd will allow you to run the pac	kaged installation scripts after installing the application definition.
* Import filo	Browse No file selected			
import file	Browse No file selected.			
* File Type:	 Database Application, Page of 	r Component Ex	kport	
	 Websheet Application Export 			
	O Plug-in			
	CSS Export			
	Image Export			
	File Export			
	Theme Export			
	 User Interface Defaults 			
	 Team Development Feedback 	t i i i i i i i i i i i i i i i i i i i		
File Character Set	Unicode UTF-8	:		
Tasks				
 Manage Export Re 	pository			
 Export 				

The file is imported.

Click on "Next" to install the Doxxy application.

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	Specify File File Import Confirmation Insta	I
Cancel		Next >
The export file has been imported success	illy.	
If you wish to Install now, click Next >.		
You can also install this file at a later time b	r navigating to the Export Repository.	
Current Application		
No application selected		
Tasks		
Manage Export Repository		
Preview File		

Select the schema on which all the Doxxy packages must be installed. Choose the appropriate "Parsing Schema" and the "Build Status", in this case, the parsing database schema "DOXXY" and the "Run and Build Application" as build status, respectively.

Next, select an option to generate the appropriate "Application ID" for the Doxxy application. Click on "Install Application".

	Specify File File Import Confirmation Install
Cancel	Install Application
When you install an application application. If you attempt to in a packaged Application Expres	having the same ID as an existing application in the current workspace, the existing application is deleted and then replaced by the new stall an application having the same ID as an existing application in a different workspace, a benign error message displays. If you are importing s application, the installation wizard will allow you to install supporting objects.
Current Workspace:	DOXXY
Export File Workspace ID:	47136106353637242
Export File Application ID:	155
Export File Version:	2010.05.13
Export File Parsing Schema:	DG40_DEV
Application Origin:	This application was exported from another workspace.
* Parsing Schema	DOXXY :
* Build Status	Run and Build Application 😂
* Install As Application:	Auto Assign New Application ID
	Reuse Application ID 155 From Export File
	Change Application ID
> Tasks	

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Doxxy

The application is now being installed. Once completed, you will be asked if you would like to install the "Supporting Objects". These "Supporting Objects" contain all the necessary Doxxy objects and the PL/SQL engine.

Select "Yes" to confirm and click on "Next".

	Supporting Objects Confirmation
Cancel	Next >
This application installer will g	guide you through the process of creating your database objects and seed data.
Application:	328 - doxxy_010200
Parsing Schema:	DOXXY
Free Space Required in KB:	100
Install Supporting Objects:	 No Yes
Tasks Preview Installation Script	

Finally, confirm that the installation must be performed.

The installation will now be completed. The installation can take a couple of minutes. So, be patient!

	Install Summary	Edit Application	Run Application
Your application's supporting ob	ojects have been instal	led.	
Your application's supporting ob	bjects have been instal	led.	
Your application's supporting of Tasks Your imported file is located in the export repository. Unless you plan to install again, you si Manage Export Repository	bjects have been instal	led.	

After the installation is completed, you can edit the image folder by choosing "Edit application".

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iAdvise

Doxxy

Select "Edit Application Properties" as illustrated below.

	Application Express	Team Development by	Administration 3						
Applic	cation Builder Application 328	leam Development *	Administration						Page 101
Applicati	ion 328 - doxxy_010200								Edit Application Properties
	Run Application	Supporting Objects		Shared Compo	1 1 Donents		Utilities		Export / Import
Q.*	Go	Actions 🗸							Create Page >
Page 🛋	Name	Updated	Updated By	Page Type	User Interface	Group	Lock	Run	
0	Page ZERO	2 weeks ago	fraeybj	Global Page	Desktop	Unassigned			
101	Login	9 months ago	fraeybj	Dynamic Form	Desktop	Unassigned	1		

Click on the fourth tab "User Interface".

You will now see an "Image Prefix" label under "General Properties". Change this according to the prefix that is applicable to your environment (for example: /p/). Starting from APEX 4.2 you can leave this field blank; APEX will then use the default "image folder".

Home	Application Builder ~	SQL W	orkshop 🗸	Team Developmer	nt 🗸	Administration \checkmark				
A	Application Builder Application 328 User Interfaces									
Defini	Definition Security Globalization User Interface									
Appli	Application 328									
Show	All General Properties	Logo Ja	avaScript Us	er Interface Detection	User	Interfaces				
Gene	General Properties									
	Image Prefix /p/									
Conte	Content Delivery Network None (use Web Server) \$									
	Media Type									

Click on "Apply Changes" and run the Doxxy application.

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You can log in to the application by using the default user: sysadmin/sysadmin.

We suggest that you change the password according to your own specific requirements.

If this was successful the following page, as illustrated below, will be displayed.

d d				SYSADMIN *
Folders O Create Folder	er	A Home		
Search Documents	<	■ Folders		Create Folder
			Q Search C Reset	
Document Meta Data Fiche		Name	Description	
System Info		DOXXY	Internal Doxxy folder	
		- SYSTEM	System info for the Doxxy Environment	
				1 - 2
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You can always check if Doxxy is functioning correctly by executing the pre-packaged "System Info" report under the DOXXY > SYSTEM folder. That document gives an overview of the general system information for the installed version of Doxxy.

You can now start using Doxxy!

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