

Connections Explorer

Summary

Qlik Sense Connections Explorer's main goal is to allow the user to explore and live query Qlik Sense QVDs files and ODBC Connections.

It also includes field, metadata and lineage information and allows you to publish QVDs to a blank QVF application.

Connections Explorer Sheets

Table Preview

Allows you to navigate to the QVD File/Table, get a limited rows/fields or full preview, make from to or particular selections on a field (e.g. category_id = 8). You can also create a new app out of a selected table using the Table Export ODAG button.

Table Preview

/Northwind/public

LEVEL3	Size	Fields	Rows	Tables
categories	0	4	0	1
products	0	10	0	1

Clear Filter

Values

Range

INT

SMALLINT

DATE

Records: 12

product_id	product_name	supplier_id	category_id	quantity_per_unit	unit_price	units_in_stock
10	Ikura	4	8	12 - 200 ml jars	31	
13	Konbu	6	8	2 kg box	6	
18	Carnarvon Tigers	7	8	16 kg pkg.	62.5	
30	Nord-Ost Matjeshering	13	8	10 - 200 g glasses	25.889999...	
36	Inlagd Sill	17	8	24 - 250 g jars	19	
37	Gravad lax	17	8	12 - 500 g pkgs.	26	
40	Boston Crab Meat	19	8	24 - 4 oz tins	18.399999...	
41	Jack's New England Clam Chowder	19	8	12 - 12 oz cans	9.6499996...	
45	Rogede silid	21	8	1k pkg.	9.5	
46	Spegesild	21	8	4 - 450 g glasses	12	
58	Escargots de Bourgogne	27	8	24 pieces	13.25	
73	Röd Kaviar	17	8	24 - 150 g jars	15	

Table Export

Example, get all products from Northwind PostgreSQL Database with category_id = 8.

Lineage

Lineage allows you to select a particular QVD and see what App is generating and what Apps are reading that file.

PREVIEW_VALUES
1000

FIELD_TYPE1
SMALLINT

FIELD1
category_id

FILTER_SMALLI...

LEVEL1
QlikResource

LEVEL2
STG

Selections

Table Preview - Lineage

←

/QlikResource/STG

LEVEL4	Q	Size	Fields	Rows	Tables	Last Update
STG_SALES_PRODUCTS.QVD		13.780	13	77	1	7/4/2021

Preview

Lineage

Fields

Show columns

product_id
unit_price
category_id
category_name
supplier_id
product_name

Table Name

folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...

Nodo Name

DATA_NORTHWIND_CATEGORIES
DATA_NORTHWIND_PRODUCTS
LIB\QlikResource\DATA\NORTHWIND...
LIB\QlikResource\DATA\NORTHWIND...
LIB\QlikResource\STG\SALES\STG_SA...
NORTHWIND

LIB\QlikResource\DATA\NORTHWIND\DATA_NORTHWIND_PRODUCTS.QVD

DATA_NORTHWIND_PRODUCTS

STG_SALES_PRODUCTS

LIB\QlikResource\STG\SALES\STG_SALES_PRODUCT...

LIB\QlikResource\DATA\NORTHWIND\DATA_NORTHWIND_CATEGORIES.QVD

DATA_NORTHWIND_CATEGORIES

NORTHWIND

Field Preview

Shows metadata information about QVD fields (max min avg count nulls).

PREVIEW_VALUES
1000

FIELD_TYPE1
SMALLINT

FIELD1
category_id

FILTER_SMALLI...

LEVEL1
QlikResource

LEVEL2
STG

Selections

Table Preview - Fields

←

/QlikResource/STG

LEVEL4	Q	Size	Fields	Rows	Tables
STG_SALES_PRODUCTS.QVD		13.780	13	77	1

Preview

Lineage

Fields

Show columns

product_id
unit_price
category_id
category_name
supplier_id
product_name

Table Name

folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...
folder\QlikResource\QlikResource\lib\Qlik...

FIELDS: 13

field	Q	max	min	avg	Q	count	Q	count...	Q	count...	Q
discontinued		1	0	0,12987012987013		77		2		77	
category_id		8	1	4,1168831168831		77		8		77	
units_on_order		100	0	10,12987012987		77		10		77	
reorder_level		30	0	12,467532467532		77		7		77	
supplier_id		29	1	13,74025974026		77		29		77	
unit_price		263,5	2,5	28,833896092006		77		61		77	
product_id		77	1	39		77		77		77	
units_in_stock		125	0	48,506493506494		77		51		77	
category_picture		-	-	-		77		1		77	System.Byte[]
category_description		-	-	-		77		8		77	Sweet and savory sau...
category_name		-	-	-		77		8		77	Seafood
quantity_per_unit		-	-	-		77		70		77	750 cc per bottle
product_name		-	-	-		77		77		77	Zaanse koeken

Publish

Allows the user to select multiple QVDs and publish them to a QVF through ODAG. It also shows what fields are present in multiple files and allows the user to select which of the will be qualified with the table name in order to avoid unwanted associations.

The screenshot shows the Qlik Publish interface. The top bar has tabs for 'PATH_AUX' (2 of 244) and 'QUALIFY_FIELDS' (All). The 'Publish' button is highlighted in orange. The main area is divided into two sections. The left section shows a list of QVDs: 'LEVEL4', 'DATA_NORTHWIND_CATEGORIES.QVD', and 'DATA_NORTHWIND_PRODUCTS.QVD'. The right section shows a table of fields and their frequency. The table has columns 'Qualify Field' and 'Frequency'. The fields listed are: 'category_id' (2), 'category_name' (1), 'description' (1), 'discontinued' (1), 'picture' (1), 'product_id' (1), 'product_name' (1), 'quantity_per_unit' (1), 'reorder_level' (1), 'supplier_id' (1), and 'unit_price' (1). Below the table, there is a search bar for 'Path' and a list of paths. The paths are: 'folder|QlikResource|DATA|NORTHWIND|DATA_NORTHWIND_CATEG...', 'folder|QlikResource|DATA|NORTHWIND|DATA_NORTHWIND_PRODUC...', 'folder|QlikResource|CONFIG|butler-spyglass-1.8.8|out|lineage|lineage...', and 'folder|QlikResource|CONFIG|CONNECTIONS_EXPLORER|QVD|APPS...'. The 'Path_Aux' tab is selected, showing a list of paths with checkboxes. The paths are: 'folder|QlikResource|DATA|NORTHWIND|DATA_NORTHWIND_CATEG...' (checked), 'folder|QlikResource|DATA|NORTHWIND|DATA_NORTHWIND_PRODUC...' (checked), 'folder|QlikResource|CONFIG|butler-spyglass-1.8.8|out|lineage|lineage...' (unchecked), and 'folder|QlikResource|CONFIG|CONNECTIONS_EXPLORER|QVD|APPS...' (unchecked).

QVDs

Shows all the QVDs in the Connections Folders and the last time each file has been read (Last time an App that reads that file has run) and written (File time).

The screenshot shows the Qlik QVDs interface. The top bar has tabs for 'CONNECTION' and 'QVDs'. The 'QVDs' tab is selected. The main area shows a table of QVDs. The table has columns: 'File', 'Read', 'Written', 'Connection', 'File', 'Table Name', and 'Level'. The data is as follows:

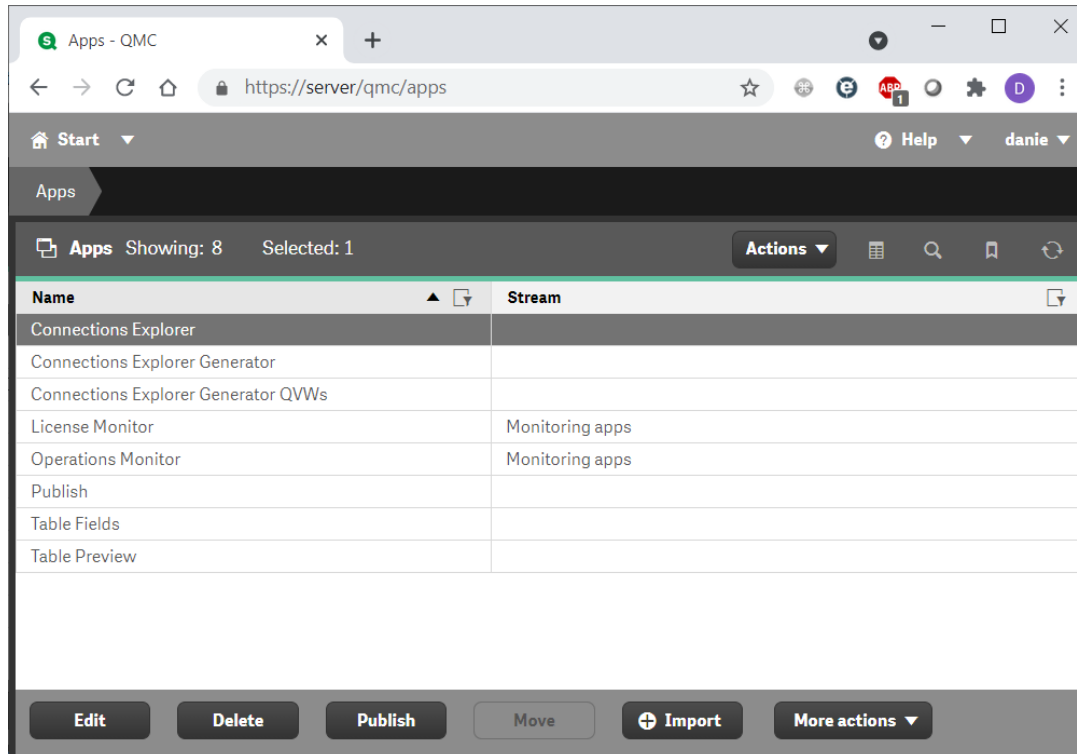
File	Read	Written	Connection	File	Table Name	Level
DATA_NORTHWIND_CA...	7/4/2021 17:15:56	7/4/2021 14:13:15	QlikResource	LIB://OLIKRESOURCE/DATA/NORTHWIND/...	categories	QlikR
DATA_NORTHWIND_PR...	7/4/2021 17:15:56	7/4/2021 14:12:05	QlikResource	LIB://OLIKRESOURCE/DATA/NORTHWIND/...	products	QlikR
APPS.qvd	-	7/4/2021 15:28:34	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	Apps	QlikR
AppsProperties.qvd	-	7/4/2021 15:28:35	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	AppsProperties	QlikR
ENTRIES.qvd	-	7/4/2021 15:04:30	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	ENTRIES	QlikR
ENTRIESTABLES.qvd	-	7/4/2021 15:04:30	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	ENTRIESTABLES	QlikR
FIELDS.qvd	-	7/4/2021 15:04:30	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	FIELDS	QlikR
FILTER_DATE.qvd	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	FILTER_DATE	QlikR
FILTER_FLOAT.qvd	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	FILTER_FLOAT	QlikR
FILTER_INT.qvd	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	FILTER_INT	QlikR
FILTER_SMALLINT.qvd	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	FILTER_SMALLINT	QlikR
lineage.csv	-	7/4/2021 14:33:25	QlikResource	LIB://OLIKRESOURCE/CONFIG/BUTLER-SPYGLASS-1.8.8/OUT/LINEAGE/LINEAGE.CSV	-	QlikR
LINEAGE.qvd	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	LINEAGE	QlikR
STG_SALES_PRODUCTS...	-	7/4/2021 14:15:56	QlikResource	LIB://OLIKRESOURCE/STG/SALES/STG_SAL...	PRODUCTS	QlikR
TABLES.qvd	-	7/4/2021 15:04:30	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	TABLES	QlikR
Tasks_LastExecutionResu...	-	7/4/2021 15:28:36	QlikResource	LIB://OLIKRESOURCE/CONFIG/CONNECTI...	lastExecutionResult	QlikR

Metadata

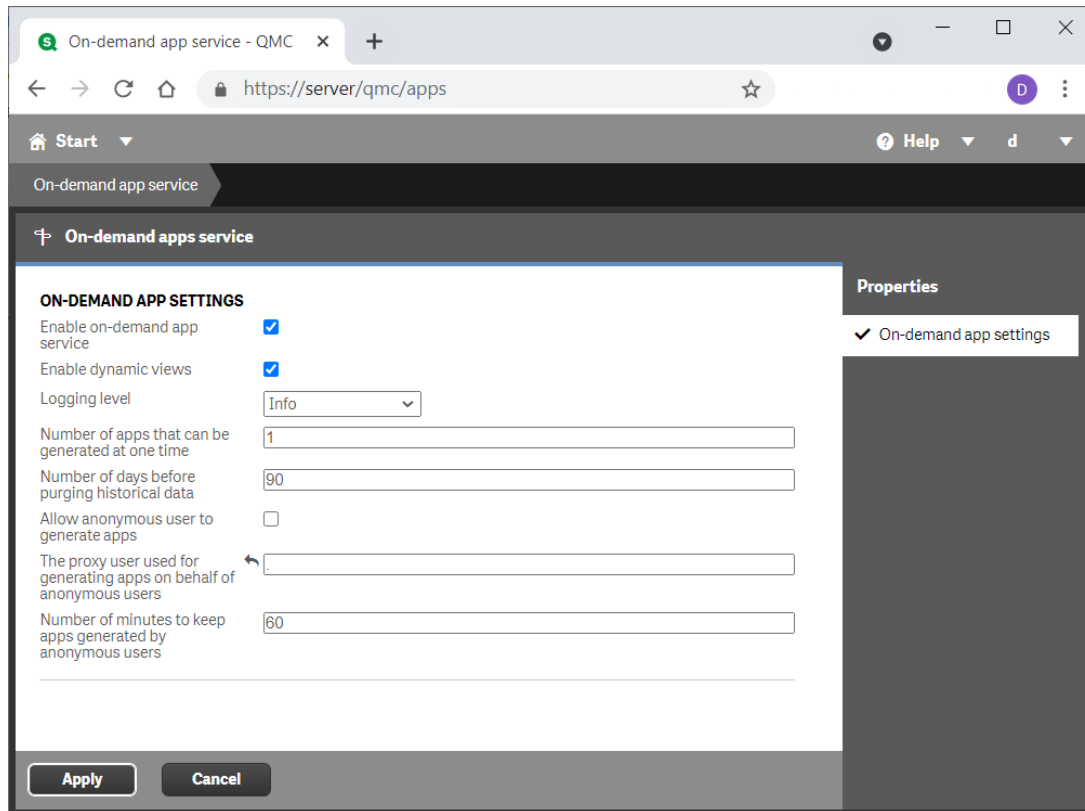
Shows available metadata from QVD Files and Databases

Configurations

1. Log into QMC and Import apps
 - Connections Explorer.qvf
 - Connections Explorer Generator.qvf
 - Publish.qvf
 - Table Fields.qvf
 - Table Preview.qvf



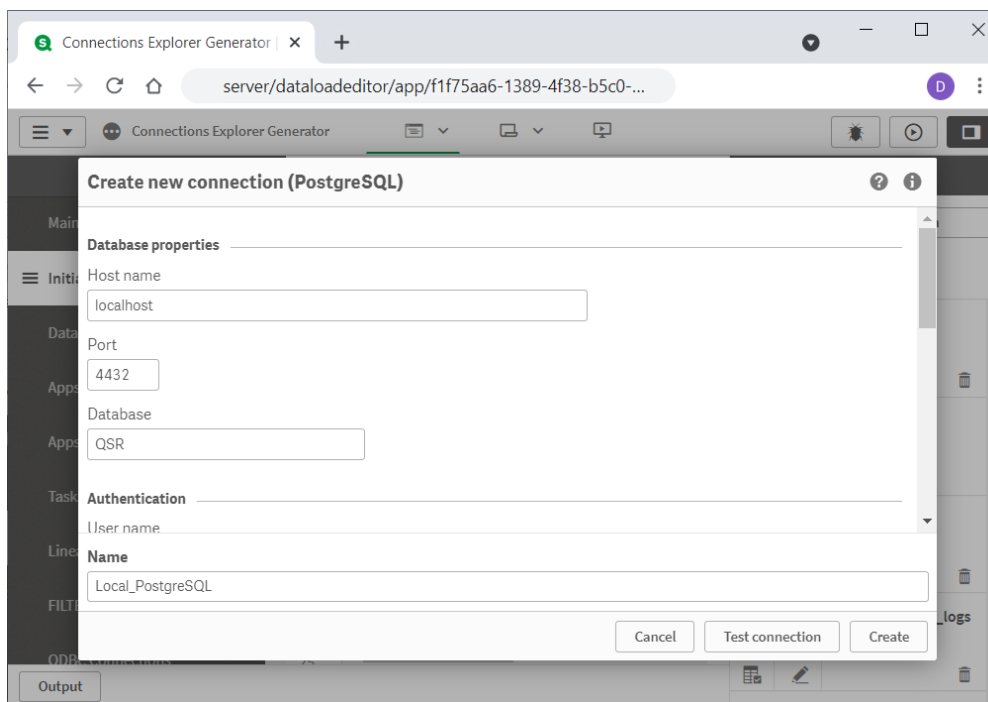
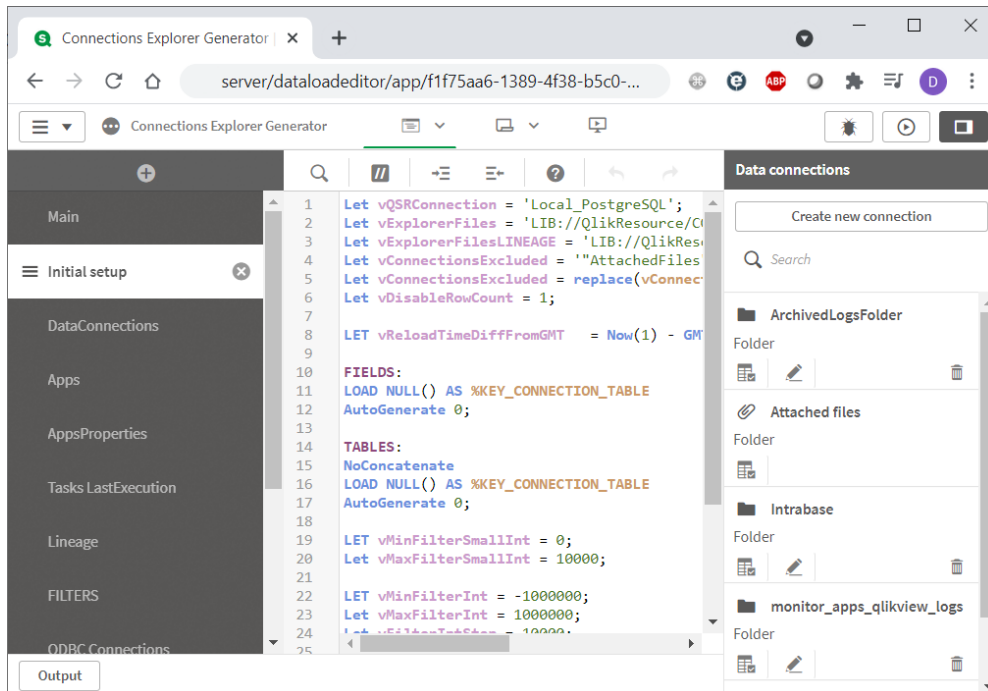
2. Enable ODAG and Dynamic Views and hit apply



- Optional Step Install and run [butler-syglass-1.0.0](#). Thanks to Göran Sander and PTARMIGAN LABS.

If you don't do this step Lineage information won't be available.

- Open a Qlik Sense app Connection Explorer Generator and create a new connection to your local PostgreSQL DB.



5. Configure the following variables and run the script

Let vQSRConnection = 'Local_PostgreSQL'; //The connection just created.

Let vExplorerFiles = 'LIB://QlikResource/CONFIG/CONNECTIONS_EXPLORER/QVD'; //Folder to store generated QVD files

```
Let vExplorerFilesLINEAGE =  
'LIB://QlikResource/CONFIG/butler-spyglass-master/out/lineage'; //Folder where to find  
Lineage information generated with butler-spyglass-1.0.0
```

```
Let vConnectionsExcluded = '"AttachedFiles","Local_PostgreSQL","QLogs"'; //Any  
connections you'd like to exclude from Connection Explorer.
```

6. Open Connections Explorer and configure the following variable to the same value as the previous step.

```
Let vExplorerFiles = 'LIB://QlikResource/CONFIG/CONNECTIONS_EXPLORER/QVD';
```

7. In Connections Explorer create the following dynamic views
 - a. Table Preview and add it to the Table Preview sheet
 - b. Table Fields and add it to the Fields Preview sheet
8. Create an on demand app navigation link and add it to the Table Preview sheet

Create new on-demand app navigation link

Name:

Template app:

Expression:

Maximum row count:

Generated apps

Maximum number:

Retention time:

Default view when opened:


Publish to:

9. Create an on demand app navigation link and add it to the Publish sheet

Create new on-demand app navigation link

Name:

Template app:

Expression:
 

Maximum row count:

Generated apps

Maximum number:

Retention time:

Default view when opened:

Publish to:

10. Enjoy!