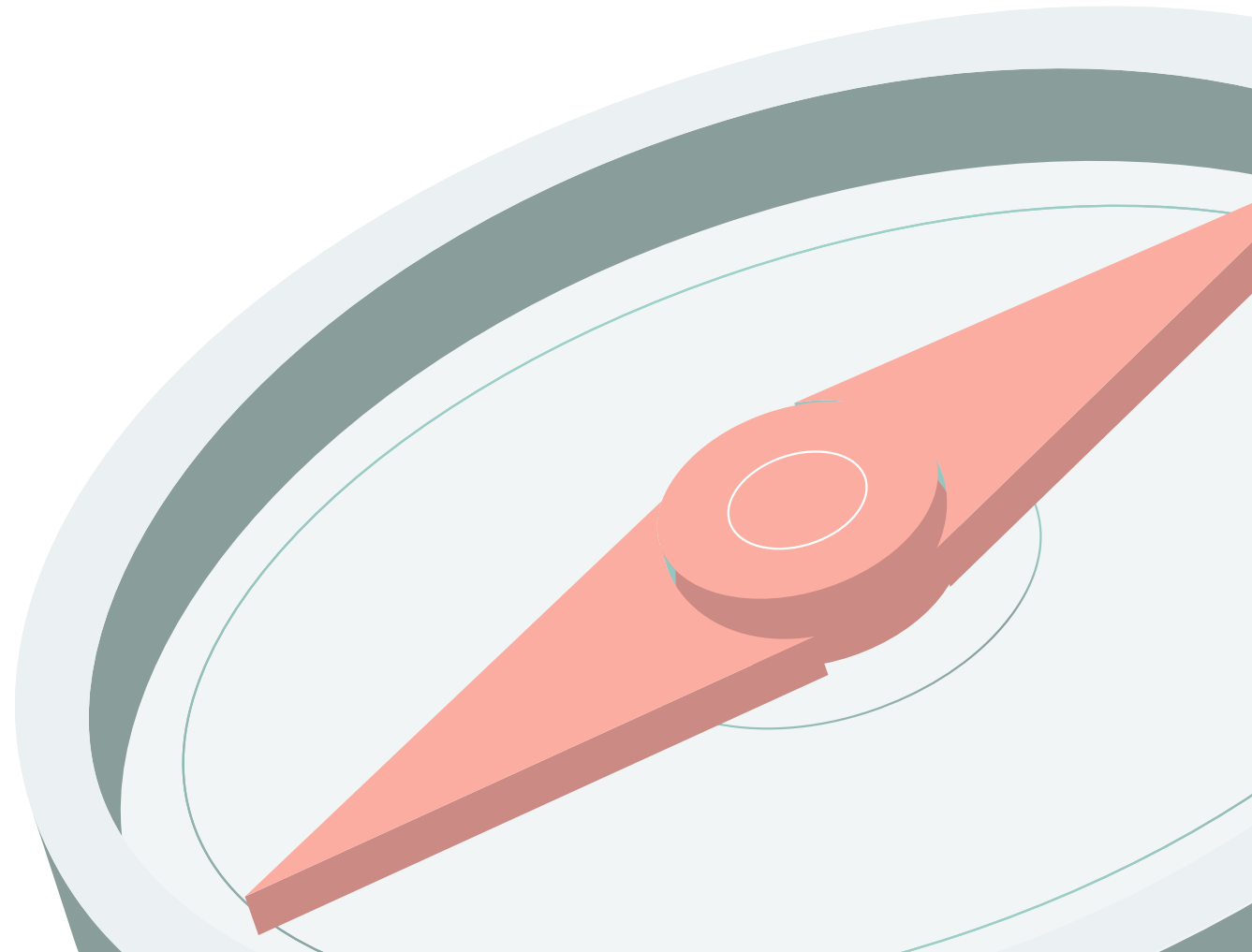




PERFECTXL
EXPLORE
User Manual v1.4

10/10/2023

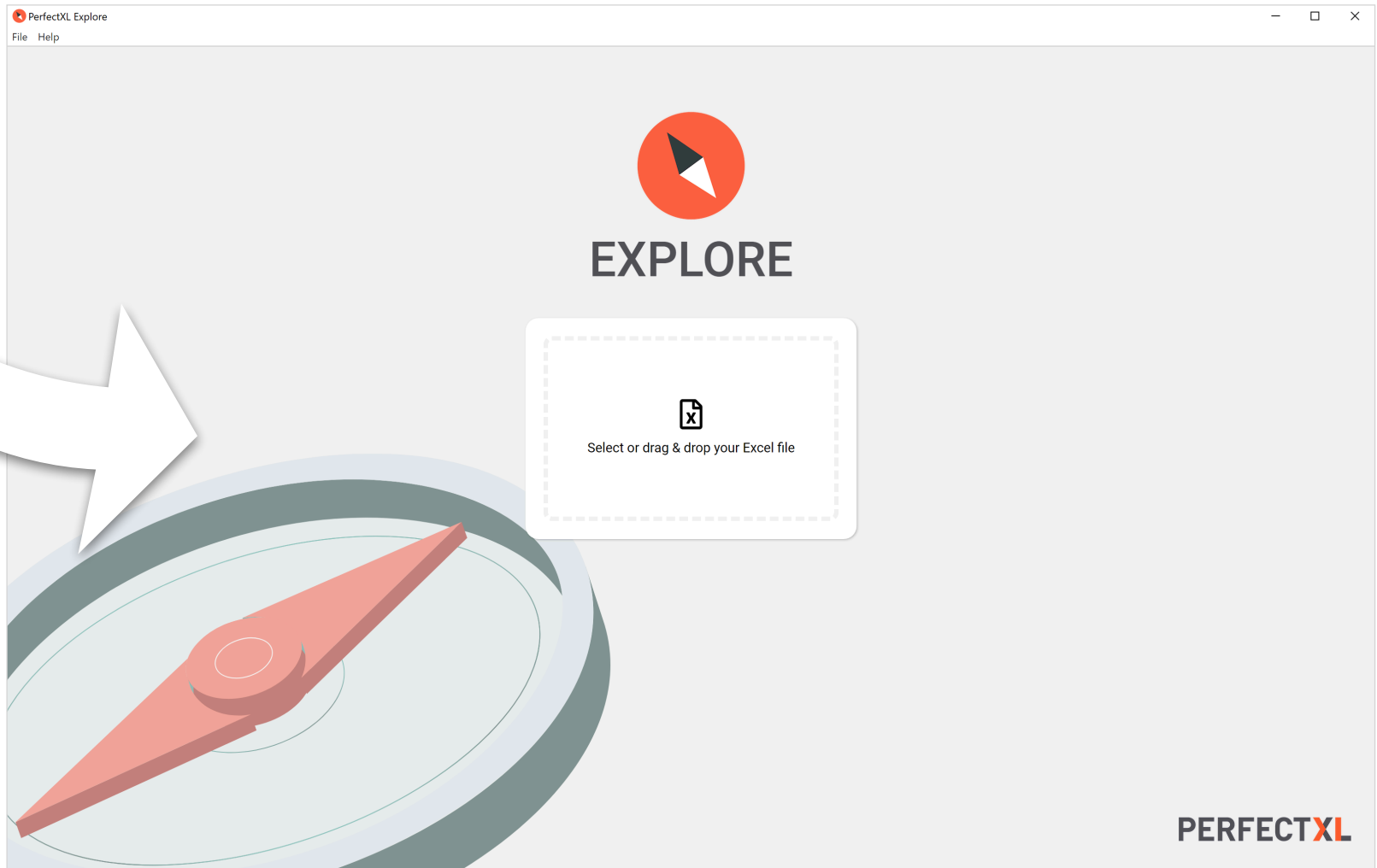
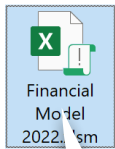




PERFECTXL Suite

Getting started

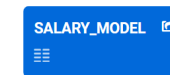
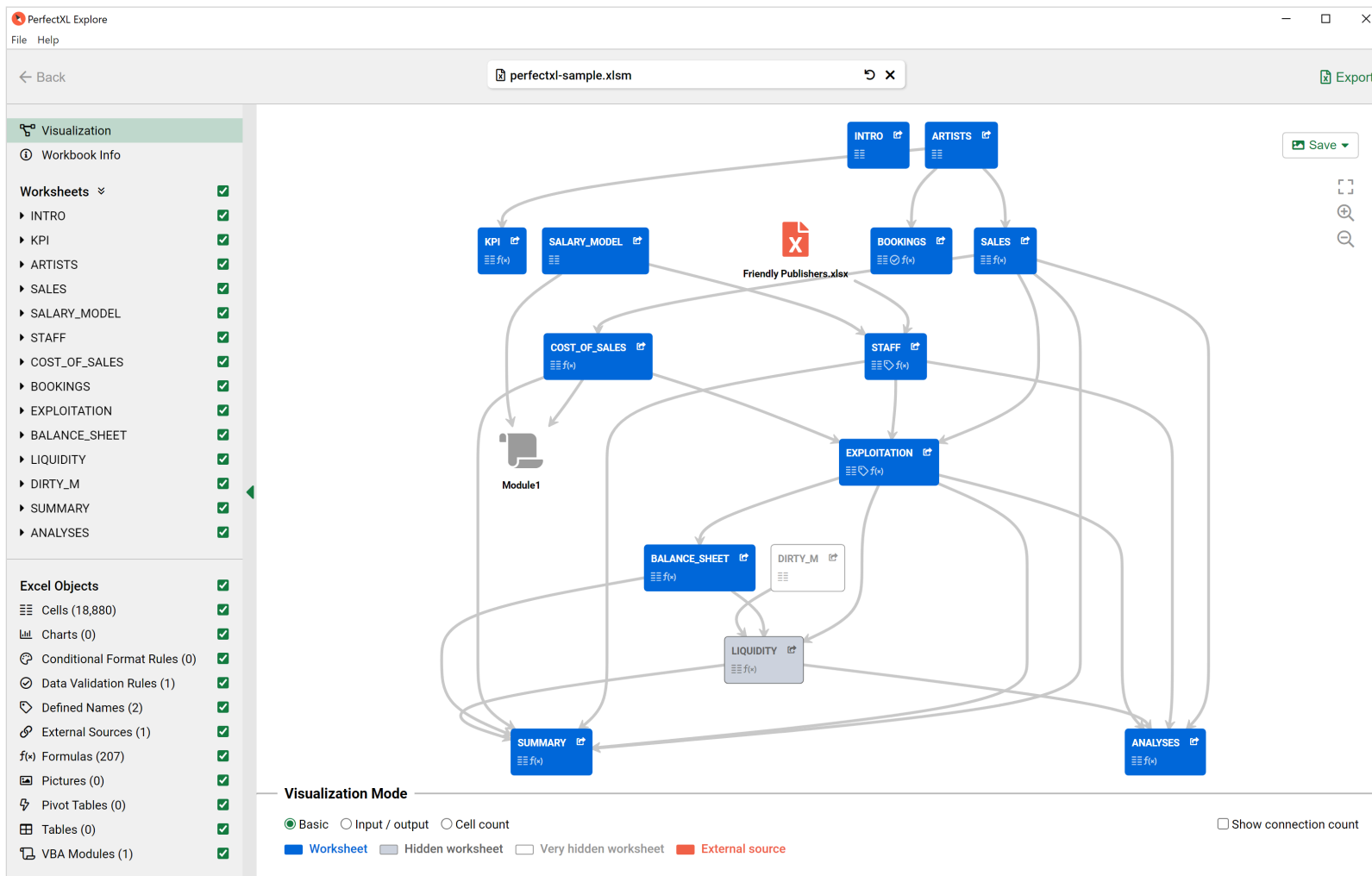
Drag a spreadsheet into PerfectXL Explore to begin analyzing it.



PERFECTXL

Overview

PerfectXL Explore opens with a visualization of the workbook structure. Options on the lefthand side allow you to explore elements in your spreadsheet by worksheet or by object type, such as charts, formulas and pivot tables.



Blocks represent worksheets
Special cases, such as globally defined names, VBA modules or external sources, are given their own shapes.



Arrows indicate flow of information
For example, an arrow pointing from sheet A to sheet B could indicate a formula in sheet B is referring to cells in sheet A.

Exploring a spreadsheet model

The visualization shows key relations between worksheets, VBA-code and external dependencies.

PerfectXL Explore
File Help
perfectxl-sample.xlsm
Export

Visualization
Workbook Info
Worksheets
INTRO
KPI
ARTISTS
SALES
SALARY_MODEL
STAFF
COST_OF_SALES
BOOKINGS
EXPLOITATION
BALANCE_SHEET
LIQUIDITY
DIRTY_M
SUMMARY
ANALYSES
Excel Objects
Cells (18,880)
Charts (0)
Conditional Format Rules (0)
Data Validation Rules (1)
Defined Names (2)
External Sources (1)
Formulas (207)
Pictures (0)
Pivot Tables (0)
Tables (0)
VBA Modules (1)

Visualization Mode
Basic Input / output Cell count
Worksheet Hidden worksheet Very hidden worksheet External source
Show connection count

At any time, click here to save the currently shown visualization as PNG, SVG or PDF.

This could be helpful when documenting a model.

Light-coloured worksheets are (very) hidden in Excel

Click on this icon to jump to the worksheet in Excel


Check to display how many connections (e.g. cell references) link two items.

Uncheck any worksheet or Excel object type to exclude it from the visualization

Getting up close

Zoom, pan around or click any worksheet in the side panel or in the visualization to focus on that worksheet.

The screenshot shows the PerfectXL Explore application window. The top bar includes a 'Back' button, the file name 'perfectxl-sample.xlsx', and an 'Export' button. The left sidebar is divided into 'Worksheets' and 'Excel Objects' sections. The 'Worksheets' section lists various worksheets, with 'Voorblad CBRE' selected and highlighted in green. The 'Excel Objects' section lists various object types like Cells, Charts, and Formulas. The main visualization area displays a network of blue boxes representing worksheets and objects, connected by arrows. The central box is 'Voorblad CBRE'. Other boxes include 'Engels (print)', 'Plakblad', 'VOORBLAD', 'UITPOND SCENARIO', 'DOOREXPLOITATIE SCENARIO', 'Kopieblad', 'Summary Amvest', 'Summary', and 'CBRE'. At the bottom, there are 'ThisWorkbook' and 'Module_foto' icons. A 'Visualization Mode' section at the bottom allows selecting between 'Basic', 'Input / output', and 'Cell count' views, and includes a legend for 'Worksheet', 'Hidden worksheet', 'Very hidden worksheet', and 'External source'. A 'Show connection count' checkbox is also present.

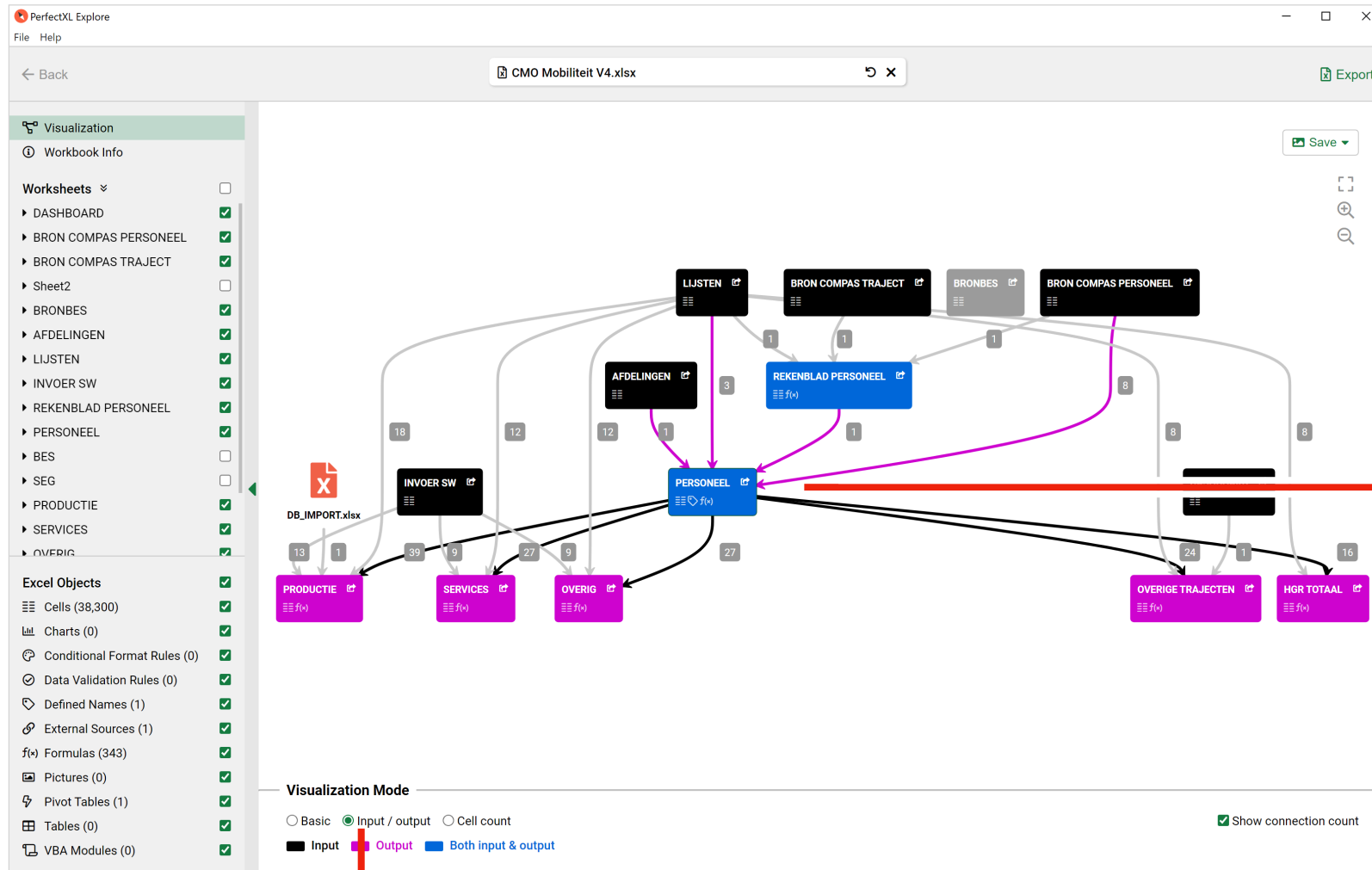
Use these buttons to zoom in and out
The  re-centres and resets the scaling to 100%

The active worksheet in the side panel takes centre stage in the visualization. Only directly related worksheets and objects are included in the visualization.

These icons correspond to the icons under Excel Objects and show at a glance what sort of things can be found inside a worksheet

Understanding input & output

What are the input sources? Where are the conclusions? Which sheets are doing the heavy lifting?

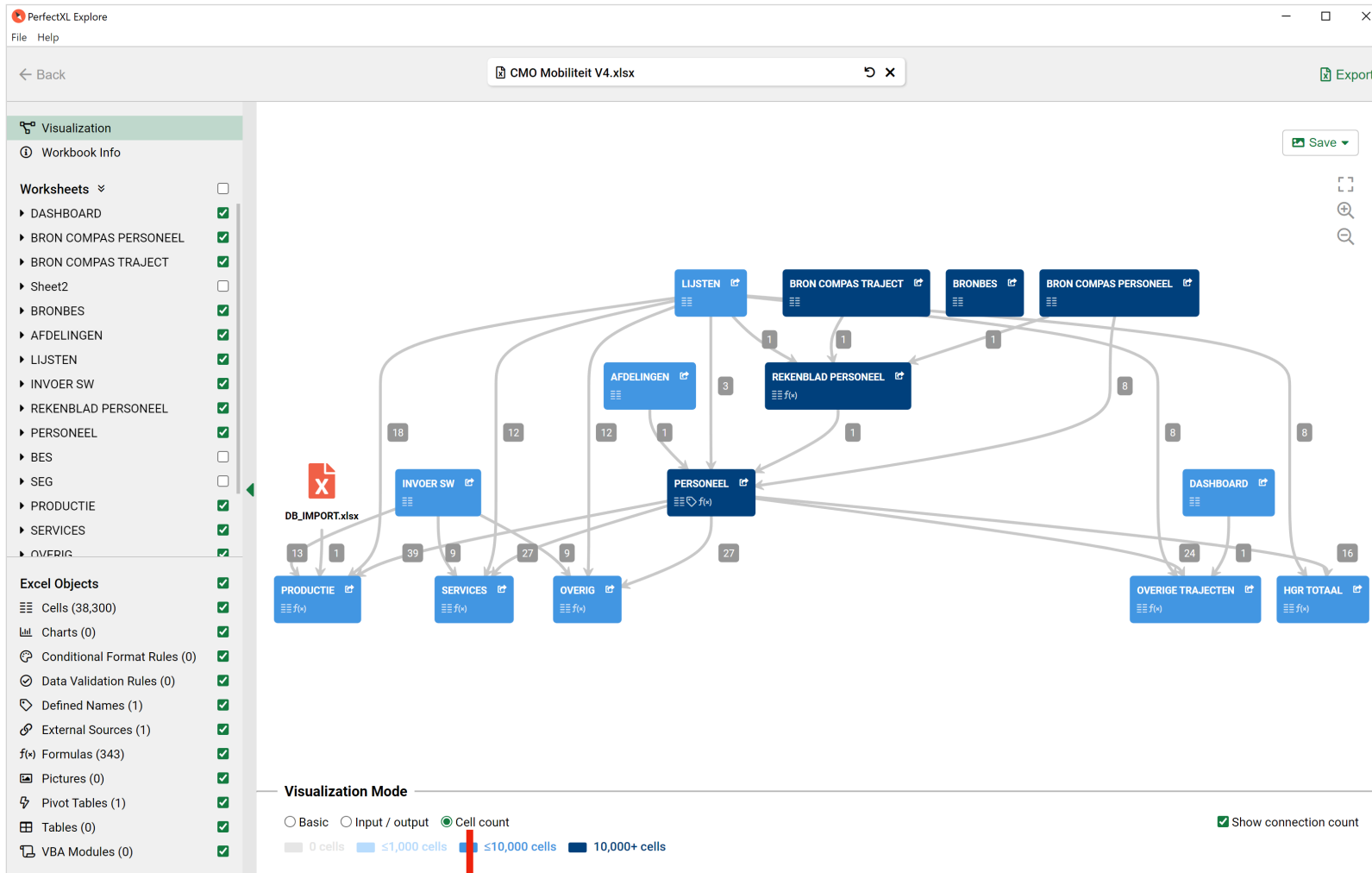


Hover worksheets or Excel objects to reveal incoming (purple) and outgoing (black) connections.

Switch to **Input / output** mode to colour worksheets based on their dependency with other worksheets.

Understanding data distribution

Which sheets contains the most cells? And which ones are (almost) empty?



Switch to **Cell count** mode to colour worksheets based on how much data they contain (non-empty cells).

Understanding relations

How does information flow from one place to another? Click any arrow to find out.

PERSONEEL → PRODUCTIE

Location	Formula	Cells
PRODUCTIE!C6	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	1
PRODUCTIE!C7:C11	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B7)	5
PRODUCTIE!C15:C16	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B15)	2
PRODUCTIE!C22	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	1
PRODUCTIE!C23:C24	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B23)	2
PRODUCTIE!E6	=COUNTIFS(PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	1
PRODUCTIE!E7:E11	=COUNTIFS(PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B7)	5
PRODUCTIE!E15:E16	=COUNTIFS(PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B15)	2
PRODUCTIE!E23:E24	=COUNTIFS(PERSONEEL!\$H:\$H,\$D\$4,PERSONEEL!\$D:\$D,\$B23)	2
PRODUCTIE!G6:G11	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	6
PRODUCTIE!G15:G16	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B15,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!G23:G24	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B23,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!I6:I11	=COUNTIFS(PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	6
PRODUCTIE!I15:I16	=COUNTIFS(PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B15,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!I23:I24	=COUNTIFS(PERSONEEL!\$H:\$H,\$H\$4,PERSONEEL!\$D:\$D,\$B23,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!K6:K11	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$L\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	6
PRODUCTIE!K15:K16	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$L\$4,PERSONEEL!\$D:\$D,\$B15,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!K23:K24	=SUMIFS(PERSONEEL!\$N:\$N,PERSONEEL!\$H:\$H,\$L\$4,PERSONEEL!\$D:\$D,\$B23,PERSONEEL!\$K:\$K,\$B\$2)	2
PRODUCTIE!M6:M11	=COUNTIFS(PERSONEEL!\$H:\$H,\$L\$4,PERSONEEL!\$D:\$D,\$B6,PERSONEEL!\$K:\$K,\$B\$2)	6

Having clicked an arrow connecting PERSONEEL and PRODUCTIE, the ensuing popup shows which formulas in PRODUCTIE are referencing cells in PRODUCTIE.

The most common relations come from formulas in cells, but charts, conditional format rules, data validation rules, named ranges, (pivot) tables and even pictures and VBA can form relations too.

This means the formula is extended to cover 6 cells.

Click here to jump to this formula in Excel.

Highlights make it easy to spot references, especially in long formulas.

Worksheets

A simple yet useful list of worksheets in your spreadsheet.

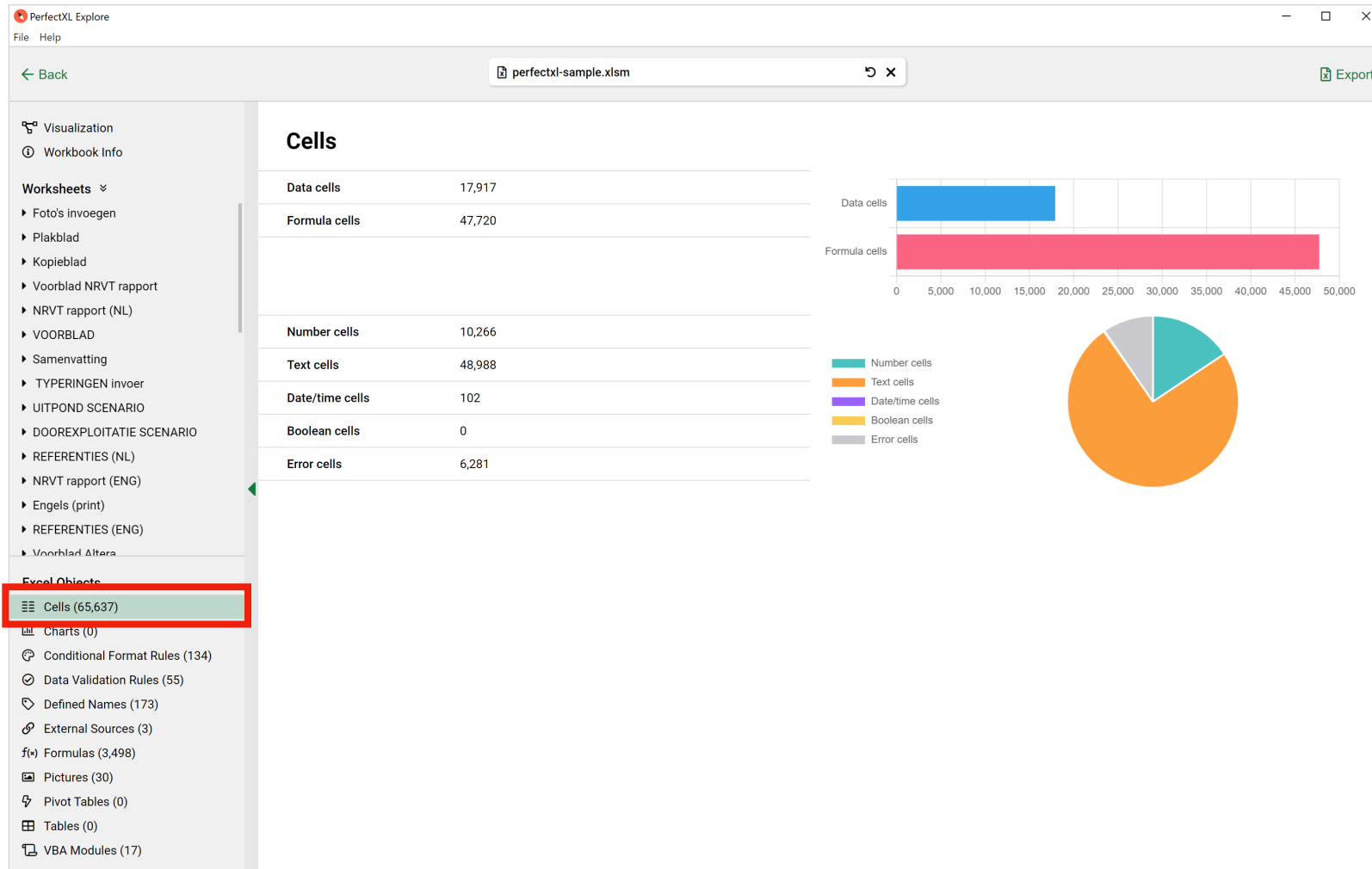
#	Name	Type	Visibility	Protection	Cells	Formulas	References
1	Foto's invoegen	Worksheet	Visible	Not protected	1	0	0
2	Plakblad	Worksheet	Visible	Not protected	0	0	262
3	Kopieblad	Worksheet	Visible	Not protected	7,334	153	9
4	Voorblad NRVt rapport	Worksheet	Visible	Not protected	22	5	2
5	NRVT rapport (NL)	Worksheet	Visible	Protected with password	333	38	22
6	VOORBLAD	Worksheet	Visible	Protected with password	705	152	517
7	Samenvatting	Worksheet	Visible	Protected with password	258	64	1
8	TYPERINGEN invoer	Worksheet	Visible	Protected with password	29,565	233	203
9	UITPOND SCENARIO	Worksheet	Visible	Protected with password	888	282	389
10	DOOREXPLOITATIE SCENARIO	Worksheet	Visible	Protected with password	707	199	195
11	REFERENTIES (NL)	Worksheet	Visible	Not protected	597	43	20
12	NRVT rapport (ENG)	Worksheet	Visible	Protected with password	326	35	34
13	Engels (print)	Worksheet	Visible	Protected with password	1,193	275	14
14	REFERENTIES (ENG)	Worksheet	Visible	Not protected	596	43	7
15	Voorblad Altera	Worksheet	Visible	Not protected	148	71	2
16	Voorblad CBRE	Worksheet	Visible	Protected with password	183	83	8
17	Summary Amvest	Worksheet	Visible	Protected with password	359	96	7
18	Summary	Worksheet	Visible	Protected with password	259	65	2
19	FACTSHEET Achmea	Worksheet	Visible	Protected with password	512	87	18
20	UITPOND SCENARIO (20)	Worksheet	Visible	Protected with password	1,589	454	64

Go to worksheet in Excel

See where this worksheet is referenced

Cell usage

Is the workbook primarily running calculations, or is it full of data?



Charts

See a collection of all the charts & graphs in your spreadsheet.

The screenshot shows the PerfectXL Explore interface with a sidebar on the left and a main content area. The sidebar includes sections for Visualization, Workbook Info, Worksheets (Chart1 through Sheet12), and Excel Objects (Cells, Charts, Conditional Format Rules, Data Validation Rules, Defined Names, External Sources, Formulas, Pictures, Pivot Tables, Tables, VBA Modules). The 'Charts' section in the Excel Objects is highlighted with a red box. The main content area displays a 'Charts' table with columns for Name, Location, Type, and Data source. A preview of a 3-D Stacked Column chart is shown, with data for Brian and Kelly across three months (Jan, Feb, Mar). Below the chart is a table of series values.

Name	Location	Type	Data source
> Chart1	Chart1	3-D Stacked Column	=Sheet1!\$B\$100:\$C\$104,Sheet2!\$C\$100:\$C\$104,Sheet3!\$C\$100:\$C\$104
> Chart 1	Sheet1!E2:L16	Radar	=Sheet1!\$B\$2:\$C\$6
> Chart 1	Sheet2!F2:M16	Pie	=Sheet2!\$B\$2:\$B\$6,Sheet2!\$D\$2:\$D\$6
▼ Chart 1	Sheet3!G2:N13	Clustered Bar	=Sheet3!\$B\$2:\$E\$3,Sheet3!\$B\$5:\$E\$5
> Chart 1	Sheet4!H2:Q15	Area	=Sheet4!\$B\$2:\$F\$7
> Chart 1	Sheet5!H2:N15	Doughnut	Sheet5!PivotTable16
> Chart 1	Sheet6!F2:N15	Clustered Column	=Sheet6!\$B\$2:\$D\$7
> Chart 1	Sheet7!F2:M15	Custom Combination	=Sheet7!\$B\$2:\$D\$7
> Chart 1	Sheet8!E2:L12	Pie of Pie	=Sheet8!\$B\$2:\$C\$8

Series name	Series values
Jan	=(Sheet3!\$C\$3,Sheet3!\$C\$5)
Feb	=(Sheet3!\$D\$3,Sheet3!\$D\$5)
Mar	=(Sheet3!\$E\$3,Sheet3!\$E\$5)

Reveal chart in Excel

Click a chart to toggle details, such as the series definitions and a quick peek at what the chart looks like in Excel

Conditional formatting

View a list of all conditional format rules in your spreadsheet.

The screenshot shows the 'Conditional Format Rules' dialog in PerfectXL Explore. The window title is 'Exploitation Invest Model.xlsx'. The left sidebar shows a tree view of 'Excel Objects' with 'Conditional Format Rules (11)' highlighted in a red box. The main area displays a table of rules:

Worksheet	Rule	Applies to	Priority	Stop if true	
Analyse oppervlak	Cell Value < \$E\$25	E26	1	x	
Analyse oppervlak	Cell Value > \$E\$25	E26	2	x	
Template	Cell Value = 4	H10	1	x	
Template	Cell Value = 4	H11:H14	2	x	
Template	Cell Value = 3	G8:G17	3	x	
Template	Cell Value = 5	I8:I14	4	x	
Template	Cell Value = 5	I8:I14	5	x	
Template	Cell Value = 4	H8:H9	6	x	
Template	Cell Value = 3	G8:G17	7	x	
Template	Cell Value = 2	F8:F14	8	x	
Template	Cell Value = 1	E8:E14	9	x	

Open the conditional formats dialog in Excel

Quickly see the cell ranges conditional format rules apply to

Data Validation Rules

It can be tricky to find which data validation rules are applied to cells in your workbook. PerfectXL Explore lists them for you.

PerfectXL Explore
File Help

← Back DataValidation.xlsx ↻ × Export

Visualization
Workbook Info

Worksheets

- Sheet1
- Sheet2
- Sheet3
- Sheet4
- Sheet5

Excel Objects

- Cells (195)
- Charts (0)
- Conditional Format Rules (0)
- Data Validation Rules (51)**
- Defined Names (5)
- External Sources (0)
- Formulas (0)
- Pictures (0)
- Pivot Tables (0)
- Tables (0)
- VBA Modules (0)

Data Validation Rules

Worksheet	Type	Rule	Applies to	Ignore blank
> Sheet1	Whole number	Between 1 and 10	C1	x
> Sheet1	Whole number	Not between 1 and 10	C2	x
> Sheet1	Whole number	Equal to 42	C3	x
> Sheet1	Whole number	Not equal to 42	C4	x
> Sheet1	Whole number	Greater than 0	C5	x
> Sheet1	Whole number	Greater than or equal to 0	C6	x
> Sheet1	Whole number	Less than 0	C7	x
> Sheet1	Whole number	Less than or equal to 0	C8	x
> Sheet1	Decimal	Between 0 and 1	C10	x
> Sheet1	Decimal	Not between -1000 and 1000	C11	x
> Sheet1	Decimal	Equal to =PI()	C12	x
> Sheet1	Decimal	Not equal to =PI()	C13	x
> Sheet1	Decimal	Greater than 1.11	C14	x
> Sheet1	Decimal	Greater than or equal to 1.11	C15	x
> Sheet1	Decimal	Less than -1.11	C16	x
> Sheet1	Decimal	Less than or equal to -1.11	C17	x
Sheet2	Time	Less than or equal to =NOW()-TODAY()	C17	x
Formula		=NOW()-TODAY()		
Value		23:35:01		
> Sheet2	Time	Less than =NOW()-TODAY()	C16	x

Defined Names

View a list of all defined names, also known as named ranges.

PerfectXL Explore
File Help

Mock Market Update.xlsx

Export

Visualization
Workbook Info

Worksheets

- SQL
- MDEData
- DelCrude
- Yields
- Assays
- StreamValues
- USGC.Cok.New
- Config.Margins

Excel Objects

- Cells (14,858)
- Charts (0)
- Conditional Format Rules (0)
- Data Validation Rules (0)
- Defined Names (76)**
- External Sources (0)
- Formulas (46)
- Pictures (0)
- Pivot Tables (0)
- Tables (0)
- VBA Modules (0)

Defined Names

Include hidden defined names (18)

Name	Formula	Value	Worksheet	References
Assay1_GC	=DelCrude!\$B:\$B	{...}	-	1 [lock] [refresh]
Assay2_GC	=DelCrude!\$C:\$C	{...}	-	1 [lock] [refresh]
Assay3_GC	=DelCrude!\$D:\$D	{...}	-	1 [lock] [refresh]
Assay4_GC	=DelCrude!\$E:\$E	{...}	-	1 [lock] [refresh]
Assay5_GC	=DelCrude!\$F:\$F	{...}	-	1 [lock] [refresh]
Assay6_GC	=DelCrude!\$G:\$G	{...}	-	1 [lock] [refresh]
Assay7_GC	=DelCrude!\$H:\$H	{...}	-	1 [lock] [refresh]
Assay8_GC	=DelCrude!\$I:\$I	{...}	-	1 [lock] [refresh]
Assay9_GC	=DelCrude!\$J:\$J	{...}	-	1 [lock] [refresh]
Assay10_GC	=DelCrude!\$K:\$K	{...}	-	1 [lock] [refresh]
Freight1	=MDEData!\$V:\$V	{...}	-	1 [lock] [refresh]
Freight2	=MDEData!\$W:\$W	{...}	-	1 [lock] [refresh]
Freight3	=MDEData!\$X:\$X	{...}	-	1 [lock] [refresh]
Freight4	=MDEData!\$Y:\$Y	{...}	-	1 [lock] [refresh]
Freight5	=MDEData!\$Z:\$Z	{...}	-	1 [lock] [refresh]
Freight6	=MDEData!\$AA:\$AA	{...}	-	1 [lock] [refresh]
Freight7	=MDEData!\$AB:\$AB	{...}	-	1 [lock] [refresh]
Freight8	=MDEData!\$AC:\$AC	{...}	-	1 [lock] [refresh]
Freight9	=MDEData!\$AD:\$AD	{...}	-	1 [lock] [refresh]
Freight10	=MDEData!\$AE:\$AE	{...}	-	1 [lock] [refresh]

Check to include hidden defined names

Hidden defined names are often created by Excel for internal use, but they can also be created by VBA.

References to this defined name

See where this defined name is used in the spreadsheet

Open defined names dialog in Excel

External links

Is Excel complaining about missing data sources? Easily find where they are referenced under External Sources.

PerfectXL Explore
File Help

ExternalLinks.xlsx

External Sources

External Links

Workbook	Path	References
Data.xlsx	C:\Users\joeri\Documents\GitHub\PerfectXL-Explore\PerfectXL-Explore.UnitTests\TestData\ExternalSources\Data\Data.xlsx	
Data.xlsx	C:\Users\Willem-Jan\Desktop\Data.xlsx	1
Financial Sample.xlsx	https://preview.perfectxl.com/Financial Sample.xlsx	3
LinkedFile1.xlsx	C:\Users\joeri\Documents\GitHub\PerfectXL-Explore\PerfectXL-Explore.UnitTests\TestData\ExternalSources\Data\LinkedFile1.xlsx	6
LinkedFile2.xlsx	C:\Users\joeri\Documents\GitHub\PerfectXL-Explore\PerfectXL-Explore.UnitTests\TestData\ExternalSources\Data\LinkedFile2.xlsx	6
LinkedFile3.xlsx	C:\Users\joeri\Documents\GitHub\PerfectXL-Explore\PerfectXL-Explore.UnitTests\TestData\ExternalSources\Data\LinkedFile3.xlsx	6
VAT.xlsx	C:\Users\Willem-Jan\Desktop\VAT.xlsx	1

Excel Objects

- Cells (104)
- Charts (1)
- Conditional Format Rules (0)
- Data Validation Rules (0)
- Defined Names (2)
- External Sources (7)**
- Formulas (15)
- Pictures (0)
- Pivot Tables (1)
- Tables (0)
- VBA Modules (0)

Attempt to open external file if available

See which places in your spreadsheet make a reference to this external link

Power Query, databases and more

Aside from cell references to other workbooks, Excel supports all sorts of data connections to external sources, such as databases, files or even entire folders. Often these connections are made with Power Query. View them all in one place under External Sources.

PerfectXL Explore

File Help

PowerQuery.xlsx

Export

External Sources

Database Connections

Name ^	Server	Database	Table	References
> Query - AdventureWorks Production Product	WJ-LAPTOP\SQLEXPRESS	AdventureWorks	Production.Product	1 ↻
> Query - AdventureWorks Sales vSalesPerson	WJ-LAPTOP\SQLEXPRESS	AdventureWorks	Sales.vSalesPerson	1 ↻
∨ Query - AdventureWorks Sales vStoreWithDemographics	WJ-LAPTOP\SQLEXPRESS	AdventureWorks	Sales.vStoreWithDemographics	1 ↻

Description: Connection to the 'AdventureWorks Sales vStoreWithDemographics' query in the workbook.

Power Query

```
let
    Source = Sql.Database("WJ-LAPTOP\SQLEXPRESS", "AdventureWorks"),
    Sales_vStoreWithDemographics = Source[Schema="Sales",Item="vStoreWithDemographics"][Data]
in
    Sales_vStoreWithDemographics
```

> Query - HP_KOERSEN	ORHp1pa	-	APPL_HOOP01.HP_KOERSEN	1 ↻
> Query - Orders	-	Orders.mdb	Orders	1 ↻

File Connections

Name ^	File	Path	References
> Query - Data	Data.xlsx	D:\Documenten\GitHub\PerfectXL-Explore\PerfectXL.Expl...UnitTests\TestData\ExternalSources\Data\Data.xlsx	1 ↻
> Query - ExpenselInfo	Expenses.xml	D:\Documenten\GitHub\PerfectXL-Explore\PerfectXL.Expl...UnitTests\TestData\ExternalSources\Data\Expens...	1 ↻
> Query - Expenseltem	Expenses.xml	D:\Documenten\GitHub\PerfectXL-Explore\PerfectXL.Expl...UnitTests\TestData\ExternalSources\Data\Expens...	1 ↻
> Query - Lipsum	Lipsum.txt	D:\Documenten\GitHub\PerfectXL-Explore\PerfectXL.Expl...UnitTests\TestData\ExternalSources\Data\Lipsum...	1 ↻
> Query - Sales	Sales.csv	D:\Documenten\GitHub\PerfectXL-Explore\PerfectXL.Expl...UnitTests\TestData\ExternalSources\Data\Sales.c...	1 ↻

Folder Connections

Name ^	Folder	References
--------	--------	------------

Excel Objects

- Cells (116,202)
- Charts (1)
- Conditional Format Rules (0)
- Data Validation Rules (0)
- Defined Names (11)
- External Sources (13)**
- Formulas (0)
- Pictures (0)
- Pivot Tables (2)
- Tables (11)
- VBA Modules (0)

List all formulas

Need a list of all formulas used in a spreadsheet for an audit or for documentation? We've got you covered.

PerfectXL Explore
File Help

← Back Investment Target Model.xlsx ↻ × Export

Visualization
Workbook Info

Worksheets

- BASISBLAD Huur
- BASISBLAD
- Specificatie kosten
- Liqui fondsen
- partners
- Exit
- DCF
- IRR
- Hypotheek OG
- inkomsten
- rresearch
- Analyse Investeren
- Analyse Hypotheek
- Analyse oppervlak
- Analyse overzicht

Excel Objects

- Cells (9,685)
- Charts (2)
- Conditional Format Rules (11)
- Data Validation Rules (0)
- Defined Names (2)
- External Sources (2)
- f(x) Formulas (894)**
- Pictures (2)
- Pivot Tables (0)
- Tables (0)
- VBA Modules (0)

Formulas

701-800 / 894 < >

Location	Formula	Cells
'Liqui fondsen'!G26	=G12/1000	1
'Liqui fondsen'!G27	=(-BASISBLAD!F56-BASISBLAD!F57-BASISBLAD!F58-BASISBLAD!F59)/1000	1
'Liqui fondsen'!G28	=-BASISBLAD!F55/1000	1
'Liqui fondsen'!G29:P29	=SUM(G25:G28)	10
'Liqui fondsen'!G30	=+Hypotheek OG!\$E\$11/1000	1
'Liqui fondsen'!G31:P31	=-BASISBLAD!\$F\$93/1000	10
'Liqui fondsen'!G32:P32	=G29+G30+G31	10
'Liqui fondsen'!G33:P33	=MIN(-\$F\$33*G32),0)	10
'Liqui fondsen'!G34:P34	=G29+G30+G33	10
'Liqui fondsen'!G36	=+Hypotheek OG!\$G\$11/1000	1
'Liqui fondsen'!G37	=(-F37*BASISBLAD!L44)/1000	1
'Liqui fondsen'!G38:O38	=SUM(G34:G37)	9
'Liqui fondsen'!G41	=BASISBLAD!F30/1000	1
'Liqui fondsen'!G42	=(G41+(G38/2))*BASISBLAD!\$F\$10	1
'Liqui fondsen'!G43:P43	=+G42+G41+G38	10
'Liqui fondsen'!H5:P5	=G5	9
'Liqui fondsen'!H8:P8	=G8+(G8*H5)	9
'Liqui fondsen'!H9	=G9+(G9*H5)	1
'Liqui fondsen'!H10	=BASISBLAD!E87	1
'Liqui fondsen'!H22:M22	=G22+(H13/1000)+H31	6

Go to formula in Excel

Pictures

Although mostly trivial, pictures can actually be important to be aware of. Too many pictures can bloat a model or slow it down, and some pictures can even contain formulas!

PerfectXL Explore

File Help

Exploitation Invest Model.xlsx

Export

Visualization

Workbook Info

Worksheets

- BASISBLAD Huur
- BASISBLAD
- Specificatie kosten
- Dashboard Invest
- Liqui fonds
- ovz co partner
- Exit
- DCF
- IRR ROE DSCR
- Hypotheek OG
- inkomsten
- M-research
- Analyse Investering
- Analyse Hypotheek
- processchema

Excel Objects

- Cells (7,965)
- Charts (3)
- Conditional Format Rules (11)
- Data Validation Rules (0)
- Defined Names (14)
- External Sources (0)
- Formulas (925)
- Pictures (5)**
- Pivot Tables (0)
- Tables (0)
- VBA Modules (0)

Pictures

Name	Location	Type	Size	Source
> Afbeelding 1	'Grafiek Waarde ontw'!C58:F74	png	5.3 cm × 6.3 cm	
> Afbeelding 4	'Grafiek Waarde ontw'!I58:O74	png	8.8 cm × 6.3 cm	
> Afbeelding 14	processchema!AA15:AH19	png	4.4 cm × 2.2 cm	
∨ Afbeelding 22	processchema!G44:J51	png	5.1 cm × 3.1 cm	
> Afbeelding 13	processchema!H14:J20	png	5.1 cm × 3.1 cm	



Go to & select picture in Excel

Click on any row to get a preview of the image

Pivot Tables

Curious where spreadsheet data comes together? Worth having a look at Pivot Tables!

The screenshot shows the PerfectXL Explore interface. The main window title is 'PerfectXL Explore' with a menu bar containing 'File' and 'Help'. Below the menu bar is a navigation bar with a 'Back' button, the current workbook name 'CMO Mobiliteit V4.xlsx', and an 'Export' button. The left sidebar contains a tree view of the workbook's structure, including 'Worksheets' and 'Excel Objects'. The 'Pivot Tables (1)' item in the 'Excel Objects' section is highlighted with a red box. The main content area displays the 'Pivot Tables' configuration for 'PivotTable1'. The configuration table is as follows:

Name	Location	Last refreshed	Data Source	References
PivotTable1	Sheet2!A3:A42	11/1/2017, 8:17:15 PM	BRONBES!\$E:\$E	 

Below the table, the following details are shown:

- Last refreshed at: 11/1/2017, 8:17:15 PM
- Last refreshed by: Mateo Mol
- Filters: -
- Columns: -
- Rows: Plaats nu
- Values: -

Tables

When data regions are formatted as table in Excel, they'll appear in this list.

The screenshot shows the PerfectXL Explore application window. The title bar reads "PerfectXL Explore" and "Tables.xlsx". The interface is divided into a left sidebar and a main content area. The sidebar contains navigation options: "Visualization", "Workbook Info", "Worksheets" (with sub-items "Sheet1" and "Sheet2"), and "Excel Objects" (with sub-items: "Cells (820)", "Charts (0)", "Conditional Format Rules (0)", "Data Validation Rules (0)", "Defined Names (1)", "External Sources (0)", "Formulas (10)", "Pictures (0)", "Pivot Tables (0)", "Tables (4)", and "VBA Modules (0)"). The "Tables (4)" item is highlighted with a red box. The main content area is titled "Tables" and displays a table with the following data:

Name	Location	Size	References
> Table1	Sheet1!B2:D16	14 rows × 3 columns	3 <<>
∨ Table3	Sheet1!B19:G27	7 rows × 6 columns	0 <<>
Column headers	Date, Color, Qty, Price, Total, Tax		
Is filtered	No		
Is sorted	No		
Table style	Blue, Table Style Medium 2		
> Table2	Sheet1!J2:J8	6 rows × 1 column	0 <<>
> Table4	Sheet2!B4:H104	100 rows × 7 columns	0 <<>

Inspecting VBA

What modules are used in your spreadsheet? Which modules are bigger than the others?

PerfectXL Explore
File Help

← Back VbaModules.xlsm Export

Visualization
Workbook Info

Worksheets

- Sheet1
- Sheet2
- Sheet3
- Sheet4
- Sheet5
- Sheet6
- Sheet7

Excel Objects

- Cells (439)
- Charts (0)
- Conditional Format Rules (0)
- Data Validation Rules (0)
- Defined Names (1)
- External Sources (0)
- Formulas (2)
- Pictures (0)
- Pivot Tables (0)
- Tables (0)
- VBA Modules (28)**

VBA Modules

Name	Type	Worksheet	VBA code
> clsAlbum	Class	-	38 lines
> Module1	Module	-	7 lines
> Module2	Module	-	7 lines
▼ Module3	Module	-	14 lines
> Module4	Module	-	9 lines
> Module5	Module	-	9 lines
> Module6	Module	-	5 lines
> Module7	Module	-	4 lines
> Module8	Module	-	6 lines
> Module9	Module	-	7 lines
> Module10	Module	-	4 lines
> Module11	Module	-	6 lines

```
1 ' This code will sort the worksheets alphabetically
2 Sub SortSheetsTabName()
3     Application.ScreenUpdating = False
4     Dim ShCount As Integer, i As Integer, j As Integer
5     ShCount = Sheets.Count
6     For i = 1 To ShCount - 1
7         For j = i + 1 To ShCount
8             If Sheets(j).Name < Sheets(i).Name Then
9                 Sheets(j).Move before:=Sheets(i)
10            End If
11        Next i
12    Next i
13    Application.ScreenUpdating = True
14 End Sub
```

Go to VBA module in Excel's VBA Editor

Click a line number to instantly jump to this line in Excel

Export as Excel

Export all lists to a new Excel file.

The image shows the PerfectXL Explore application interface. On the left, there is a sidebar with a 'Visualization' section containing a list of worksheets: INTRO, KPI, ARTISTS, SALES, SALARY_MODEL, STAFF, COST_OF_SALES, BOOKINGS, EXPLOITATION, BALANCE_SHEET, LIQUIDITY, DIRTY_M, SUMMARY, and ANALYSES. Below this is an 'Excel Objects' section listing various elements like Cells (18,875), Charts (0), Conditional Format Rules (27), Data Validation Rules (1), Defined Names (2), External Sources (1), Formulas (212), Pictures (0), Pivot Tables (0), Tables (0), and VBA Modules (1). Each item has a green checkmark.

The main window displays the 'Excel Model.xlsm' file. A red box highlights the 'Export' button in the top right corner. The spreadsheet content includes the PerfectXL EXPLORE logo and an 'ANALYSIS RESULT' section with the following details:

- File name: Excel Model.xlsm
- File size: 324.00 KB
- Last modified: 20-10-2021 10:40:47
- Last modified by: joeri
- Number of worksheets: 14

Below the analysis result is a table summarizing the contents of the Excel file:

#	Worksheet	Visibility	Protection	Cells	Formulas	References
1	INTRO	Visible	Visible	Not protected	2	0
2	KPI	Visible	Visible	Not protected	5	2
3	ARTISTS	Visible	Visible	Not protected	16,052	0
4	SALES	Visible	Visible	Not protected	319	45
5	SALARY_MODEL	Visible	Visible	Not protected	1,135	0
6	STAFF	Visible	Visible	Not protected	181	15
7	COST_OF_SALES	Visible	Visible	Not protected	149	19
8	BOOKINGS	Visible	Visible	Not protected	21	4
9	EXPLOITATION	Visible	Visible	Not protected	241	33
10	BALANCE_SHEET	Visible	Visible	Not protected	134	13
11	LIQUIDITY	Hidden	Hidden	Not protected	174	19
12	DIRTY_M	Very hidden	Very hidden	Not protected	30	0
13	SUMMARY	Visible	Visible	Not protected	419	57

The bottom of the window shows the 'Summary' tab selected in the Excel ribbon, with other tabs like 'Cells', 'Conditional Format Rules', 'Data Validation Rules', 'Defined Names', and 'External Sources' visible.

