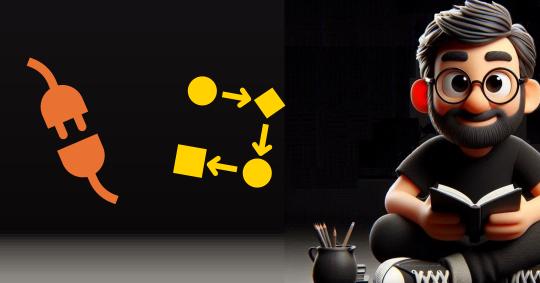
Patou Tips #24

Start with PowerBI

"From Rookie to Rock"



Quick Guide PowerQuery Connection & normalisation

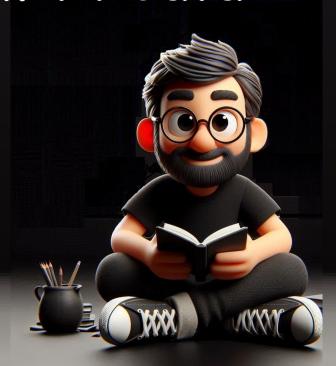


Start with PowerBI

"From Rookie to Rock"







5 really useful connectors



More...

There are so many possibilities to connect with data source types in PowerBI.

To get started... Home Insert Modeling ☐ Get data ∨ ☐ Excel file Common data sources CSV file Excel workbook Folder of files Power BI semantic models Web site source Dataflows SQL source Dataverse SQL Server Analysis Services Home Insert Mode Text/CSV In the "home" Web menu... Get data 🗸 Selecting a OData feed connector gives Blank guery access to Power BI Template Apps 🖸 PowerQuery

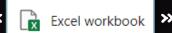
Start with PowerBI

"From Rookie to Rock"

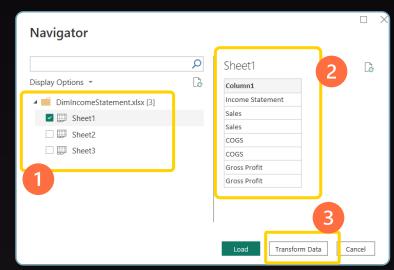
Connection with Excel file



Select the connector «



- 1 All sheets in the Excel file are displayed here. Select one (or more) sheet(s).
- The contents of the selected sheet are displayed here.
- Patou Tip: The
 "transform data"
 button is really
 - interesting to check the quality of your data for yourself.
 See "Patou Tips #16 (step 2)" for more information.





Start with PowerBI

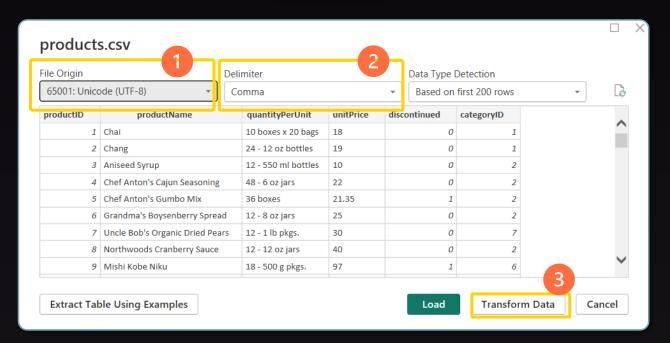
"From Rookie to Rock"

2

Connection with CSV file



Select the connector « Text/CSV »



- Patou Tip: Use the format "65001: Unicode (UTF-8)", when you have data with accentuation like French, Spanish languages...
 - Select the delimiter (could be a coma "," or a semicolon ";")

Start with PowerBI

"From Rookie to Rock"

Connection with a folder of files (1/2)



Select the connector « Folder »

Note: This connector works with many file formats; Excel, CSV, PDF...

Select your folder

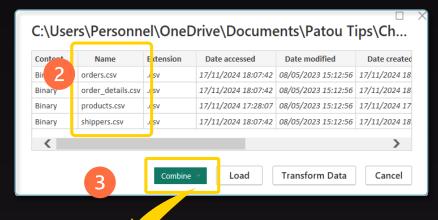
Folder 1

Folder path

C:\Users\Personnel\OneDrive\Documents\Patou Tips (Start PowerBI)

Browse...

The contents of the folder (files) is displayed here.



Select the
"combine and
transform data"
button

Combine & Transform Data
Combine & Load

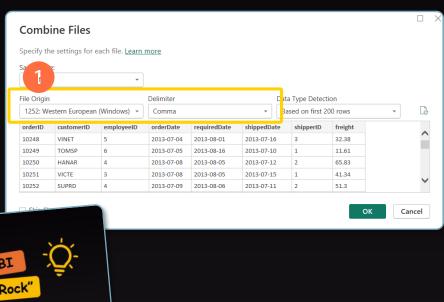
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Connection with a folder of files (2/2)



See tip #2,
"Connection
with CSV file"





Discover "Patou Tips #22" to connect PowerBi with Teams (or Sharepoint)

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Connection with a Web site source



Select the connector «

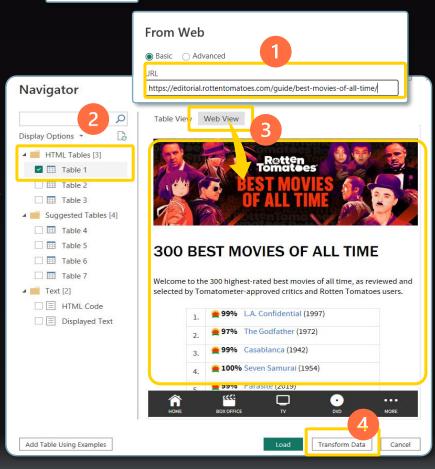


>>

- Paste the Web site address.
 Here a Web site with a list of "300 best movies
- 2 Select the object to display

of all the time".

- The contents of selected object is displayed here.
 Great it's the list that we wanted!
- 4 Select the "transform data" button



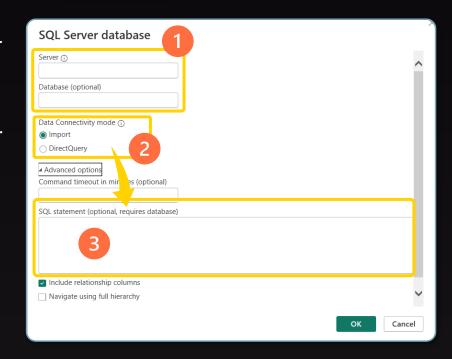
Start with PowerBI

"From Rookie to Rock"

Connection with a SQL source



- Specify the SQL Server address
- Select the connection mode. Select "import" to always keep the data in PowerBI or "DirectQuery" for continuous refresh.
- It is better to create a SQL statement to limit each query.



To go further...



6 great ressources!



Wise Cat Noro Boris

@wisecatnoroboris · 21,1 k abonnés · 481 vidéos Hello, content de vous voir par ici. ...plus wisecat.tv et 2 autres liens

S'abonner



Access Analytic

@AccessAnalytic · 95,6 k abonnés · 275 vidéo: Amazing Excel and Power BI Solutions. Perth, accessanalytic.com.au et 4 autres liens

S'abonner



Curbal •

@CurbalEN · 139 k abonnés · 1 k vidéos Curb your Power BI skils! ...**plus**

curbal.com et 1 autre lien

S'abonner

Rejoindre



Goodly

@GoodlyChandeep · 99,9 k abonnés · 563

A lot of people think that my name is Good goodly.co.in/learn-m-powerquery et 4 autr

S'abonner

Rejoindre



Le CFO masqué

@lecfomasque · 5,16 k abonnés · 269 vidéos La référence francophone en informatique de lecfomasque.com et 3 autres liens

S'abonner



Dataseito

@Dataseito · 20,2 k abonnés · 80 vidéos Je partage mes expériences dans le mon dataseito.substack.com et 2 autres liens

S'abonner

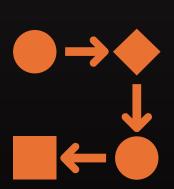
Start with PowerBI

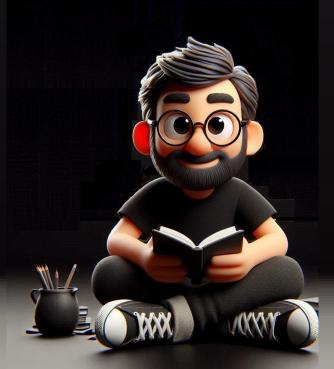
"From Rookie to Rock"

Start with PowerBI

"From Rookie to Rock"



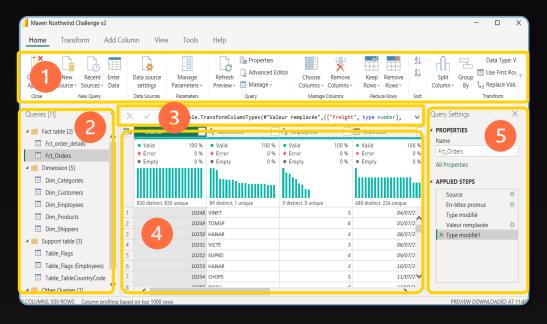




About this step...



After connecting the data, to prepare and clean the project data, we start again in PowerQuery...



PowerQuery is a powerful ETL (Treat, Transform, Load) inside PowerBI (and Excel)

- Functions pane
- Query pane

- 3 Formula window
- 4 Data window

5 Transformation history

Start with PowerBI

"From Rookie to Rock"

5 data normalization rules

+ 1 « Power Patou Tip »





Before preparing your data in Power Query, it is necessary to understand the business needs and the business codes of your future users (HR, finance, sales, etc.).

- \checkmark 1 \rightarrow Understand the data profiling and use the right click
- ✓ 2 → Select necessary columns and remove duplicate rows
- √ 3 → Rename columns and change data types
- ✓ 4 → Replace Null values and filter data
- \checkmark 5 \rightarrow Rename and organize your queries



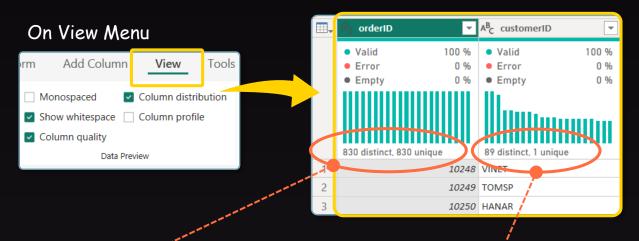
« Power Patou Tip » → Create the « N value »



Understand the data profiling and use the right click (1/2)



Data profiling provides you with important information about data quality and distribution.



830 distinct, 830 unique

830 different values and 830 values appear once, so there are no duplicate values. In this example, this means that the order IDs are unique, great, that's what we want!

89 distinct, 1 unique

89 different values and 1 value only appears once. In this example, this means that 88 customers ordered multiple times.

Start with PowerBI

"From Rookie to Rock"

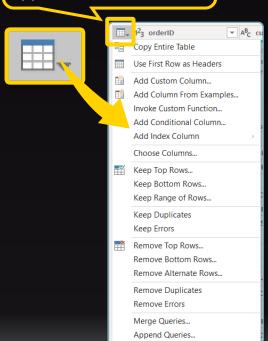


Understand the data profiling and use the right click (2/2)

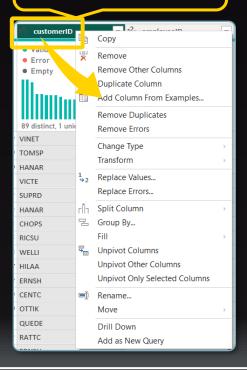


Right-clicking on the upper left corner or on a column name gives you access to almost all the tools useful for cleaning and transforming data.

Right-clicking on the upper left corner



Right-clicking on a column name



Start with PowerBI

"From Rookie to Rock"

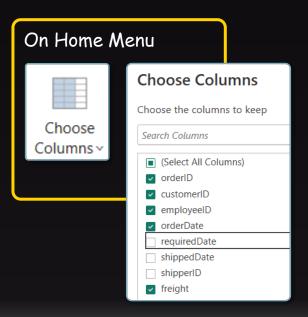


Select necessary columns and remove duplicate rows



These two actions help to keep the necessary data and remove duplicate rows. By reducing the number of columns and rows you will increase the performance of your project.

Select necessary columns



Remove duplicate rows



Start with PowerBI

"From Rookie to Rock"

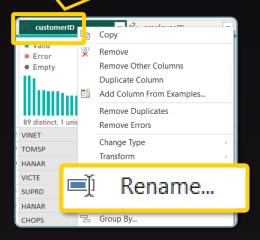
Rename columns and change data types



These two actions allow you to name the data in the business sense and to assign them the appropriate format to facilitate data manipulation.

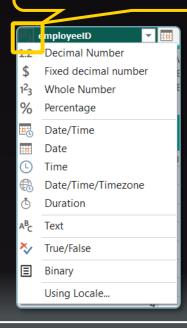
Rename columns

Right-clicking on a column name



Change data types

Click on the logo on the left of the column name



Start with PowerBI

"From Rookie to Rock"



Replace Null values and filter data (1/2)



These two actions allow you to reduce the number of data by their value and improve the performance of your project.

Number values Replace Null values **Replace Values** Right-clicking on a Replace one value with another in the select column name Value To Find null customerID Replace With 0 Remove Error Empty Remove Other Columns Duplicate Column Add Column From Examples... Text values Remove Duplicates Remove Errors Change Type Replace Values Replace Values... $\rightarrow 2$ Replace one value with another in the selec r∐¬ Split Column HANAR



Start with PowerBI

"From Rookie to Rock"

□ Group By...

CHOPS

Data normalization

Value To Find

ND ND = Not Determinated

null Replace With



Replace Null values and filter data (2/2)



Filter data

Click on the logo on the right of the column name



Text filters

Equals...

Does Not Equal...

Greater Than...

Greater Than Or Equal To...

Less Than...

Less Than Or Equal To...

Between...

Number filters

Equals...

Does Not Equal...

Begins With...

Does Not Begin With...

Ends With...

Does Not End With...

Contains...

Does Not Contain...

Date filters

Equals	3
Before	
After	
Between	
In the Nex	rt
In the Pre	vious
Is Earliest	
Is Latest	
Is Not Ear	liest
Is Not Lat	est
Year	→
Quarter	→
Month	→
Week	→
Day)

Start with PowerBI

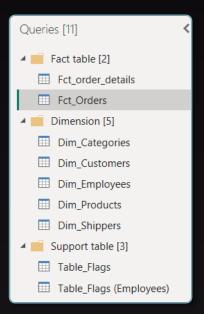
"From Rookie to Rock"

Rename and organize your queries



Rename queries

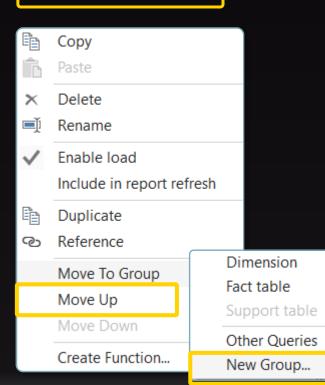
Right-clicking on a query name



Fct = Fact
Dim = Dimension

Organize queries

Right-clicking on a query name



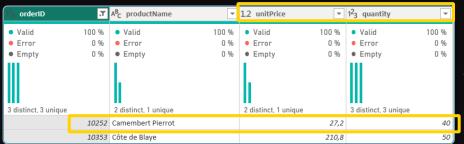
Start with PowerBI

"From Rookie to Rock"

Create the « N value » N = Nominal



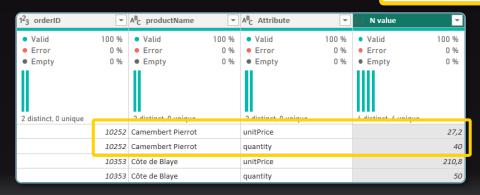
This technique allows you to group all the variables of type "fact table" in the same field. It will be useful and easier to create measures in PowerBi with the Dax language.



Variables



Unpivot Only Selected Columns





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To go further...



6 great ressources!



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Augustin de la Fouchardiere 1er Fondateur de MYPE. Consultant & formateur Data

FI Expérience : MYPE. ESSEC Business School et 7 autre(s)

14 relations en commun

✓ Message

Voir le profil complet



Clément Pruvost ♥ · 1er

Responsable Data - Ofilae Family Office Greater Lille Metropolitan Area

2 8 k abonnés

14 relations en commun

◀ Message

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Melissa de Kortein · 2e

Power Platform Enthusiast | Microsoft MVP | Super User | Enter The Randstad, Netherlands

8 k abonnés



23 relations en commun

Message

Voir le profil complet

Start with PowerBI

"From Rookie to Rock"

Don't forget!
This isn't the truth, it's just my truth!

Patou Tips



