

In this activity we use data that has several issues: It isn't a star schema, and it has junk/bad dates.

Watch two [videos](#) of the steps.

Launch Power BI **Desktop**!



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Power BI





Home



Open

Sign in

Options and
settings

About

▼ Select a data source or start with a blank report



Blank report



OneLake data hub



Excel workbook



SQL Server



Learn with sample
data

▼ Recommended

Getting started



Intro—What is Power BI?:Gett



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Use this button.

Or Blank Report then
find an Excel button.



Search



ENG
US



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-  Videos ⭐
-  old ⭐

Name	Date modified	Type	Size
 A Maple Company.xlsx	2025-04-09 6:10 PM	Microsoft Excel W...	7,746



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Navigator

Display Options ▾

▲

📁

A Maple Company.xls

☒

☒

Canada

☒

☒

Export

☐

☐

Export(s)

☐

☐

Track

☐

☐

Holiday

☐

☐

Info

☒

☒

Product Info

☐

☐

Projection

☒

☒

World

▲

📁

Suggested Tables [4]

☐

☐

Table 1 (Info)

☐

☐

Darcy Whyte, 613-563-3634 Darcy Wh...

☐

☐

Table 3 (Service Ref)

1

2

3

4

5

World

Preview downloaded on Tuesday

Invoice Date	Start Date		
2007-11-02	2007-11-0		
2007-08-09	2007-08-1		
2007-02-26	2007-03-0		
2007-02-26	2007-03-0		
2007-02-26	2007-03-01	1899-12-31 10:05:46 AM	2007-03-05
2007-02-26	2007-03-01	1899-12-31 9:53:43 AM	2007-03-07
2007-01-07	2007-01-22	1899-12-31 3:48:47 PM	2007-02-02
2007-02-10	2007-02-16	1899-12-31 3:47:17 PM	2007-02-21
2007-02-17	2007-03-07	1899-12-31 4:39:33 PM	2007-03-10
2007-02-19	2007-03-09	1899-12-31 11:55:48 AM	2007-03-16
2007-02-09	2007-02-12	1899-12-31 11:29:19 AM	2007-02-26
2007-02-17	2007-03-07	1899-12-31 12:15:08 PM	2007-03-14
2007-02-09	2007-02-12	1899-12-31 3:24:10 PM	2007-02-12
2007-02-09	2007-02-12	1899-12-31 11:49:07 AM	2007-02-23
2007-02-13	2007-02-22	1899-12-31 2:58:51	2007-03-08
2007-02-19	2007-03-09	1899-12-31 12:32:19	2007-03-11



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These are all the sheets we need for this activity.

Load

Transform Data

Cancel

Home Transform Add Column View Tools Help

Refresh review
 Properties
 Advanced Editor
 Manage

Choose Columns
 Remove Columns

Keep Rows
 Remove Rows

Sort

Split Column
 Group By
 Data Type: Text
 Use First Row as Headers
 Replace Values

Merge Queries
 Append Queries
 Combine Files

Text Analytics
 Vision
 Azure Machine Learning

Queries [4]

- Canada
- Export
- Product Info
- World

= Table.TransformColumnTypes(#"Promoted Headers",{{"Product

	Product Description	Product
1	Flip Phone Technique Coaching	Flip
2	How to Pretend You Watch Hockey - Crash Course	Hockey
3	Youtube Dance Tutorial Mastery	Dance
4	CD Burning and Label Design	Burning
5	Canadian Sorry Coaching	Sorry
6	MySpace Profile Assistance	MySpace

Query Settings

PROPERTIES

Name

Product Info

[All Properties](#)

APPLIED



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You need to promote the headers on this Query. Otherwise, it says Col1, Col2.

Queries [4]

Canada
Export
Product Info
World

Append

Concatenate rows from three or more tables into one table.

Two tables ☐ Three or more tables ☒

Available tables

Canada
Export
Product Info
World

Add >>

Tables to append

Canada
Export
World

OK

Cancel

2

1

4

3

5

6

Appending three sheets together.



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Home Transform Add Column View Tools Help

Refresh
 Properties
 Advanced Editor
 Manage
 Query

Choose Columns
 Remove Columns
 Manage Columns

Keep Rows
 Remove Rows
 Reduce Rows

Sort

Split Column
 Group By

Data Type: Date
 Use First Row as Headers
 Replace Values

Merge Queries
 Append Queries
 Combine Files
 Combine

Text Analytics
 Vision
 Azure Machine Learning
 AI Insights

Queries [5]

- Canada
- Export
- Product Info
- World
- Append1

= Table.Combine({Canada, Export, World})

	Invoice Date	Start Date	Start Time	Finish Time
1	2007-11-02	2007-11-05	1899-12-31 2:24:25 PM	
2			1899-12-31 11:33:03 AM	
3			1899-12-31 2:10:36 PM	
4			1899-12-31 9:28:19 AM	
5			1899-12-31 10:05:46 AM	
6			1899-12-31 9:53:43 AM	
7	2007-01-07	2007-01-22	1899-12-31 3:48:47 PM	
8	2007-02-10	2007-02-16	1899-12-31 3:47:17 PM	
9	2007-02-17	2007-03-07	1899-12-31 4:39:33 PM	
10	2007-02-19	2007-03-09	1899-12-31 11:55:48 AM	
11	2007-02-09	2007-02-12	1899-12-31 11:29:19 AM	
12	2007-02-17	2007-03-07	1899-12-31 12:15:08 PM	
13	2007-02-09	2007-02-12	1899-12-31 3:24:10 PM	
14	2007-02-09	2007-02-12	1899-12-31 11:49:07 AM	
15				

Double click to rename to
Combined Sales

Query Settings

PROPERTIES

Name

Append1

All Properties

APPLIED STEPS

Source



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Right click and remove “Enable load” check

Queries [5]

Canada
Export
Product Info
World
Combined Sales

1

- Copy
- Paste
- Delete
- Rename
- ✓ Enable load
- ✓ Include in report re
- Duplicate
- Reference
- Move To Group
- Move Up
- Move Down
- Create Function...
- Convert To Parameter
- Advanced Editor
- Properties...

2

Invoice Date	Start Date	Start Time	Finish Date
2007-11-02	2007-11-05	1899-12-31 2:24:25 PM	
2007-08-09	2007-08-12	1899-12-31 11:33:03 AM	
2007-02-26	2007-03-01	1899-12-31 2:10:36 PM	
2007-02-26	2007-03-01	1899-12-31 9:28:19 AM	
2007-02-26	2007-03-01	1899-12-31 10:05:46 AM	
2007-02-26	2007-03-01	1899-12-31 9:53:43 AM	
2007-01-07	2007-01-22	1899-12-31 3:48:47 PM	
2007-02-10	2007-02-16	1899-12-31 3:47	
2007-02-17	2007-03-07	1899-12-31 4:39	
2007-02-19	2007-03-09	1899-12-31 11:55	
2007-02-09	2007-02-12	1899-12-31 11:29	
2007-02-17	2007-03-07	1899-12-31 12:15	
2007-02-09	2007-02-12	1899-12-31 3:24	
2007-02-09	2007-02-12	1899-12-31 11:49	

Query Settings

PROPERTIES

Name

Combined Sales

All Properties

APPLIED

We'll hide all these
files from the data
model.



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Refresh
 Properties
 Advanced Editor
 Manage
 Query

Choose Columns
 Remove Columns
 Manage Columns

Keep Rows
 Remove Rows
 Reduce Rows

Sort

Split Column
 Group By

Data Type: Date
 Use First Row as Headers
 Replace Values

Merge Queries
 Append Queries
 Combine Files
 Combine

Text Analytics
 Vision
 Azure Machine Learning
 AI Insights

Queries [5]

- Canada
- Export
- Product Info
- World
- Combined Sales**

= Table.Combine({Canada, Export, World})

Remove “Enable load” For all five Queries

9	2007-02-17	2007-03-07	1899-12-31 4:39
10	2007-02-19	2007-03-09	1899-12-31 11:55
11	2007-02-09	2007-02-12	1899-12-31 11:29
12	2007-02-17	2007-03-07	1899-12-31 12:15
13	2007-02-09	2007-02-12	1899-12-31 3:24
14	2007-02-09	2007-02-12	1899-12-31 11:49
15			

Query Settings

PROPERTIES

Name

Combined Sales

All Properties

APPLIED



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Make sure each one is italics.

Queries [5]

- Canada
- Export
- Product Info
- World
- Combined Sales

Right Click, Reference

1

2

- Copy
- Include in report refresh
- Duplicate
- Reference
- Move To Group
- Move Up
- Move Down
- Create Function...
- Convert To Parameter
- Advanced Editor
- Properties...

Reference is a bit like Duplicate. But transformations done to Combined Sales will carry forward. **You can use either Reference or Duplicate**



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A Maple Company Cleaned

Home

Transform

Add Columnn

View

Tools

Help

<

Refresh review

>

Properties

Advanced Editor

Manage

Choose Columns

Remove Columns

Keep Rows

Remove Rows

Sort

Split Column

Group By

Queries [9]

Canada

Export

Product Info

World

Combined Sales

Sales

Products

Customers

Branches

fx

= #"Combined Sales"

	Invoice Date	Start Date
1	2007-11-02	2007-11-05
2	2007-08-09	2007-08-12
3	2007-02-26	2007-03-01
4	2007-02-26	2007-03-01

3

1

2

Double click each reference to rename each one (Sales, Products, Customers, Branches)

Choose Columns

Choose the columns to keep

Search Columns

☒ (Select All Columns)

☐ Invoice Date

☐ Start Date

☐ Start Time

☐ Finish Date

☐ Hrs

☐ Pay Rate

☐ Product Description

☐ Product Category

☐ CompanyID

☐ Company

☐ Region

☐ Market

☐ City

☐ Prov

☒ BranchID

☒ Branch Location

☐ Invoice

☐ Invoice No



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In the Branch table we'll remove the non-Branch fields.

4

5

OK

18 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

DOWNLOADED AT 6:20 PM

Navigation bar with icons and labels for various data manipulation tasks:

- Data source settings (Data Sources)
- Manage Parameters (Parameters)
- Refresh Preview (Query)
- Properties, Advanced Editor, Manage (Query)
- Choose Columns (Manage Columns)
- Remove Columns (Manage Columns)
- Keep Rows (Reduce Rows)
- Remove Rows (Reduce Rows)
- Sort
- Split Column (Transform)
- Group By (Transform)
- Data Type: Whole Number (Transform)
- Use First Row as Headers (Transform)
- Replace Values (Transform)
- Merge Queries (Combine)
- Append Queries (Combine)
- Combine Files (Combine)
- Text Analytics (AI Insights)
- Vision (AI Insights)
- Azure Machine Learning (AI Insights)

Queries [9]

Canada
Export
Product Info
World
Combined Sales
Sales
Products
Customers
Branches

Query Editor showing the formula: `= Table.SelectColumns(Source,{"BranchID", "Branch Location"})`

Table view showing columns: BranchID, Branch Location. A right-click context menu is open over the BranchID column, highlighting the "Remove Duplicates" option.

Right click BranchID and Remove Duplicates

Query Settings

PROPERTIES

Name

Branches

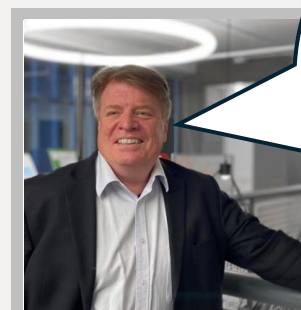
All Properties

APPLIED STEPS

Source

Remove Duplicates

Then remove the duplicate records.



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Properties

Advanced Editor

Manage

Query



Choose Columns

Choose Columns

Choose the columns to keep

Search Columns

☒ (Select All Columns)☐ Invoice Date☐ Start Date☐ Start Time☐ Finish Date☐ Hrs☐ Pay Rate☐ Product Description☐ Product Category☒ CompanyID☒ Company☒ Region☒ Market☒ City☒ Prov☐ BranchID☐ Branch Location☐ Invoice☐ Invoice No

OK

2

3

4

Select
Customers

1

Same procedure for
Customers.



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Search

ENG
US

Query Settings

×

123 CompanyID

Copy

Remove

Remove Other Columns

Duplicate Column

Add Column From Examples...

Remove Duplicates

Remove Errors

Change Type

Transform

Replace Values...

Replace Errors...

Group By...

Fill

Unpivot Columns

Unpivot Other Columns

Unpivot Only Selected Columns

Rename...

Move

Drill Down

Add as New Query

AB_C Region

AB_C Market

AB_C City

NORT

CANADA

ST ALBAN

NORTH

CANADA

QUEBEC

BATH

BATH

BATH

BATH

HALIFAX

CHESTER

COPPER CLIFF

SEPT-ILES

NORTH

CANADA

NORTH

CANADA

NORTH

CANADA

NORTH

CANADA

NORTH

CANADA

Right click
CompanyID and
Remove
Duplicates



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Right click CompanyID and Remove Duplicates

Removing dups from Customers.



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Select Products

2

Choose the columns to keep

Search Columns

☐ (Select All Columns)

- ☐ Invoice Date
- ☐ Start Date
- ☐ Start Time
- ☐ Finish Date
- ☐ Hrs
- ☐ Pay Rate
- ☒ Product Description
- ☒ Product Category
- ☐ CompanyID
- ☐ Company
- ☐ Region
- ☐ Market
- ☐ City
- ☐ Prov
- ☐ BranchID
- ☐ Branch Location
- ☐ Invoice
- ☐ Invoice No

3

4

OK

Cancel

Same with
products. Removing
columns...

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New Source
 Recent Sources
 Enter Data
 Data source settings
 Manage Parameters
 Export query results
 Refresh Preview
 Properties
 Advanced Editor
 Manage

Choose Columns
 Remove Columns
 Keep Rows
 Remove Rows
 Sort

Split Column
 Group By
 Use First Row as Headers
 Replace Values
 Merge Queries
 Append Queries
 Combine Files

- Queries [9]
- Canada
 - Export
 - World
 - Product Info
 - Combined Sales
 - Sales
 - Products
 - Customers
 - Branches

= Table.SelectColumns(Source,{"Product Description", "Product Category"})

	Product Description	Product Category
1	Flip Phone Tech	Coaching
2	How to Pretend You Watch Hockey	Crash Course
3	Youtube Dance Tutorial	Mastery
4	CD Burning and Label Design	Hard Skills
5	CD Burning and Label Design	Hard Skills
6	CD Burning and Label Design	Hard Skills
7	CD Burning and Label Design	Hard Skills
8	CD Burning and Label Design	Hard Skills
9	CD Burning and Label Design	Hard Skills
10	CD Burning and Label Design	Hard Skills
11	CD Burning and Label Design	Hard Skills
12	CD Burning and Label Design	Hard Skills
13	CD Burning and Label Design	Hard Skills
14	CD Burning and Label Design	Hard Skills
15	CD Burning and Label Design	Hard Skills
16	CD Burning and Label Design	Hard Skills
17	CD Burning and Label Design	Hard Skills
18	CD Burning and Label Design	Hard Skills
19	CD Burning and Label Design	Hard Skills
20	CD Burning and Label Design	Hard Skills
21	CD Burning and Label Design	Hard Skills
22	CD Burning and Label Design	Hard Skills
23	How to Pretend You Watch Hockey - Crash Course	Soft Skills
24	CD Burning and Label Design	Hard Skills
25	Youtube Dance Tutorial Mastery	Soft Skills
26	CD Burning and Label Design	Hard Skills
27	CD Burning and Label Design	Hard Skills
28	CD Burning and Label Design	Hard Skills

Query Settings

PROPERTIES

Name

Products

All Properties

APPLIED STEPS

Source

Removed Other Columns

1

Right click the header

2

Remove Duplicates

Removing duplicates.

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Home Transform **Add Column** View Tools HelpColumn From
Examples
Custom
Column

1

**Add
Column**Conditional Column
Index Column
Duplicate Column

2

**Index
Column
from 1**Format
Merge Columns
Extract
Parse
General

Statistics

Standard

Scientific

From Number

Trigonometry
Rounding
InformationDate
Time
Duration
From Date & TimeText
Analytics
Vision
AI Insights
Azure Machine
Learning

Columns("#Added Index",{"Index", "ProductID"})

3

**Rename to
ProductID**

Query Settings

PROPERTIES

Name

Products

All Properties

APPLIED STEPS

Source

Remove Columns

The Products table
has no Primary Key,
so we're creating
one.



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1

Select Products

Merge

Select a table and matching columns to create a merged table.

Products

Product Description	Category	ProductID
Flip Phone Technique Coaching		1
How to Pretend You Watch Hockey - Crash Course		2
Youtube Dance Tutorial Mastery	Soft Skills	3
CD Burning and Label Design	Hard Skills	4
Canadian Sorry Coaching	Soft Skills	5

Product Info

Product Description	Product
Flip Phone Technique Coaching	
How to Pretend You Watch Hockey - Crash Course	
Youtube Dance Tutorial Mastery	
CD Burning and Label Design	
Canadian Sorry Coaching	

Join Kind

Left Outer (all from first, matching from second)

☐ Use fuzzy matching to perform the merge

▸ Fuzzy matching options

✓ The selection matches 6 of 6 rows from the first table.

6

OK

2

Merge Queries

Now we're using Merge to bring the short product name from the Product Info.



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Query Settings

	ABC Product Description	ABC Product Category
1	Flip Phone Technique Coaching	Hard Skills
2	How to Pretend You Watch Hockey - Crash Course	Soft Skills
3	Youtube Dance Tutorial Mastery	Soft Skills
4	CD Burning and Label Design	Hard Skills
5	Canadian Sorry Coaching	Soft Skills
6	MySpace Profile Assistance	Questionable Skills

☒ Expand ☐ Aggregate

☐ (Select All Columns)☐ Product Description
☒ Product☐ Use original column name as prefix

OK

4

Remove this check

2

3

Select only Product

Expanding the Product Field.

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A Maple Company Cleaned

Home Transform Add Column

Data source settings Manage Parameters Refresh Preview

Queries [9]

- Canada
- Export
- Product Info
- World
- Combined Sales
- Sales**
- Products
- Customers
- Branches

1

Merge

Select a table and matching columns to create a merged table.

Sales

Pay Rate	Product Description	Product Category	CompanyID	Company
240.07	Flip Phone Technique Coaching	Hard Skills	964910	Buckeye Furniture
147.22	How to Preter... You Watch Hockey - Crash Course	Soft Skills	2928848	Sammy's Record Shack
163.51	You... Tutorial Mastery	Soft Skills	380661	Budget Tapes & Records
134.01	CD Burning... Design	Hard Skills	380661	Budget Tapes & Records

Products

Product Description	Product Category	ProductID	Product
Flip Phone Technique Coaching	Hard Skills	1	Flip
How to Preter... Watch Hockey - Crash Course	Soft Skills	2	Hockey
Youtube Dance Tutorial Mastery	Soft Skills	3	Dance
CD Burning... Design	Hard Skills	4	Burning
Canadian...	Soft Skills	5	Sorry

Join Kind

Left Outer (all from first, matching from second)

☐ Use fuzzy matching to perform the merge

Fuzzy matching options

✓ The selection matches 68929 of 68929 rows from the first table.

OK

6

Merge Queries

Merge Queries

Merge Queries as New

Text Analytics

Vision

Azure Machine Learning

AI Insights

Query Settings

1.2

4

2

2

Merging the ProductID into the Sales table.

This is like VLookup in Excel. We are looking up the ProductID in the Products table by the Product name.

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Home Transform Add Column View Tools Help

Home Transform Add Column View Tools Help

Data source settings
Data Sources

Manage Parameters
Parameters

Refresh Preview
Query

Properties
Advanced Editor
Manage

Choose Columns
Manage Columns

Remove Columns

Keep Rows
Reduce Rows

Remove Rows

Sort

Split Column
Group By

Data Type: Table
Use First Row as Headers
Replace Values
Transform

Merge Queries
Append Queries
Combine Files
Combine

Text Analytics
Vision
Azure Machine Learning
AI Insights

Queries [9]

- Canada
- Export
- Product Info
- World
- Combined Sales
- Sales
- Products
- Customers
- Branches

123 BranchID 123 Branch Location 123 Invoice 123 Invoice No Products

1	940581	BEDFORD, PQ	14	
2	940581	BEDFORD, PQ	15	
3	920781	BROSSARD, PQ	16	
4	920781	BROSSARD, PQ	16	
5	920781	BROSSARD, PQ	16	
6	920781	BROSSARD, PQ	16	
7		MARTINE, PQ	16	
8		E, PQ	17	
9			17	
10			17	
			171350	null Table
			171351	null Table
			171352	null Table
			171353	null Table
			172005	null Table
			172191	null Table
			172353	null Table
			172565	null Table
19	920781	BROSSARD, PQ		
20				

Expanding the column and making sure we have the ProductID.

Search Columns to Expand

Expand Aggregate

(Select All Columns)

Product Description

Product Category

ProductID

Product

Use original column name as prefix

OK Cancel

Properties

All Properties

APPLIED STEPS

Source

Merged Queries

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Home Transform Add Column View Tools Help

Data source settings Data Sources Manage Parameters Parameters Refresh Preview Query Manage Columns Manage Columns

Queries [9]

- Canada
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- Branches

	BranchID	Branch Location
1	940581	BEDFORD, PQ
2	940581	BEDFORD, PQ
3	920781	BROSSARD, PQ
	920781	BROSSARD, PQ
	920781	BROSSARD, PQ
	920781	BROSSARD, PQ
	910181	STE MARTINE, PQ
8	910181	STE MARTINE, PQ
9	920681	OROMOCTO, NB
10	940581	BEDFORD, PQ
11	920681	OROMOCTO, NB
12	920681	OROMOCTO, NB
13	920681	OROMOCTO, NB
14	920681	OROMOCTO, NB
15	920681	OROMOCTO, NB
16	940581	BEDFORD, PQ
17	940381	PARRSBORO, NS
18	920781	BROSSARD, PQ
19	920781	BROSSARD, PQ
20		

19 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

Choose Columns

Choose the columns to keep

Search Columns

- ☒ (Select All Columns)
- ☒ Invoice Date
- ☒ Start Date
- ☒ Start Time
- ☒ Finish Date
- ☒ Hrs
- ☒ Pay Rate
- ☐ Product Description
- ☐ Product Category
- ☒ CompanyID
- ☐ Company
- ☐ Region
- ☐ Market
- ☐ City
- ☐ Prov
- ☒ BranchID
- ☐ Branch Location
- ☐ Invoice
- ☐ Invoice No
- ☒ ProductID

OK Cancel

2

3 Select only these columns

1

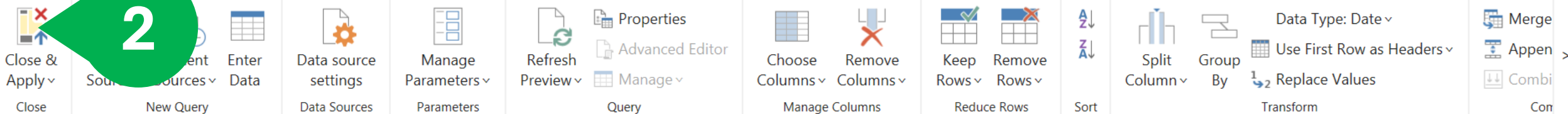
4

Removing extra columns from Sales. Be sure to keep all the Foreign Keys.

We don't remove duplicates in this case because it's a Fact Table.

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Home Transform Add Column View Tools Help



Queries [9]

- Sales
- Products
- Customers
- Branches
- Canada
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- Product Info
- World
- Combined Sales

fx = Table.SelectColumns(#"Expanded Products",{ "Invoice Date", "Start Date", "Start Time", "Finish Date",

	Invoice Date	Start Date	Start Time	Finish Date	123 Hrs	1.2
1	2007-11-02	2007-11-05	1899-12-31 2:24:25 PM	2007-11-16		4
2				2007-08-20		2
3				2007-03-13		2
4				2007-03-10		3
5				2007-03-05		3
6				2007-03-07		3
7				2007-02-02		3
8				2007-02-21		4
9				2007-03-10		4
10				2007-03-16		4
11				2007-02-26		
12				2007-03-14		
13	2007-02-09	2007-02-12	1899-12-31 3:24:10 PM	2007-02-12		
14	2007-02-09	2007-02-12	1899-12-31 11:49:07 AM	2007-02-23		
15	2007-02-13	2007-02-22	1899-12-31 2:58:51 PM	2007-03-08		
16	2007-02-19	2007-03-09	1899-12-31 12:32:19 PM	2007-03-11		
17	2007-02-18	2007-02-24	1899-12-31 1:02:12 PM	2007-03-04		
18	2007-02-26	2007-02-26	1899-12-31 9:23:05 AM	2007-03-02		
19	2007-05-20	2007-05-23	1899-12-31 12:13:47 PM	2007-05-27		
20						

1 Drag active files to the top. The lower five should be italics. Indicating that they are not "Enabled".

Query Settings

PROPERTIES

Name

Sales

All Properties

APPLIED STEPS

Source

Merged Queries

Expanded Products



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Are we having fun yet? Place a funny emoji in the group chat!

9 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 6:20 PM



Search

ENG
US

File

Home

Help

External tools

Paste

Clipboard

Get data

Excel workbook

OneLake data hub

SQL Server

Enter data

Dataaverse

Recent sources

Transform data

Refresh data

Queries

Manage relationships

Relationships

New measure

New column

New table

Calculation group

Calculations

Manage roles

View as

Security

Q&A setup

Language

Linguistic schema

Q&A

Sensitivity

Sensitivity

Publish

Share

Search

Sign in

Share

1

Customers

City

Company

CompanyID

Market

Prov

Region

Collapse

Sales

BranchID

CompanyID

Finish Date

Hrs

Invoice Date

Pay Rate

ProductID

Start Date

Start Time

Collapse

Products

Product

Product Category

Product Description

ProductID

Collapse

Branches

Branch Location

BranchID

Collapse

Properties

3

Cards

Show the database in the header when applicable

No

Show related fields when card is collapsed

Yes

Pin related fields to top

No

Let's verify if our model is a Star Schema!

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2

56%

to download



Yup! It's a Star Schema!





1

2

**Change
the name
to Sales
KPI**

3

	Column1	+
1		
+		



We're creating a Measures Table to keep things organized.

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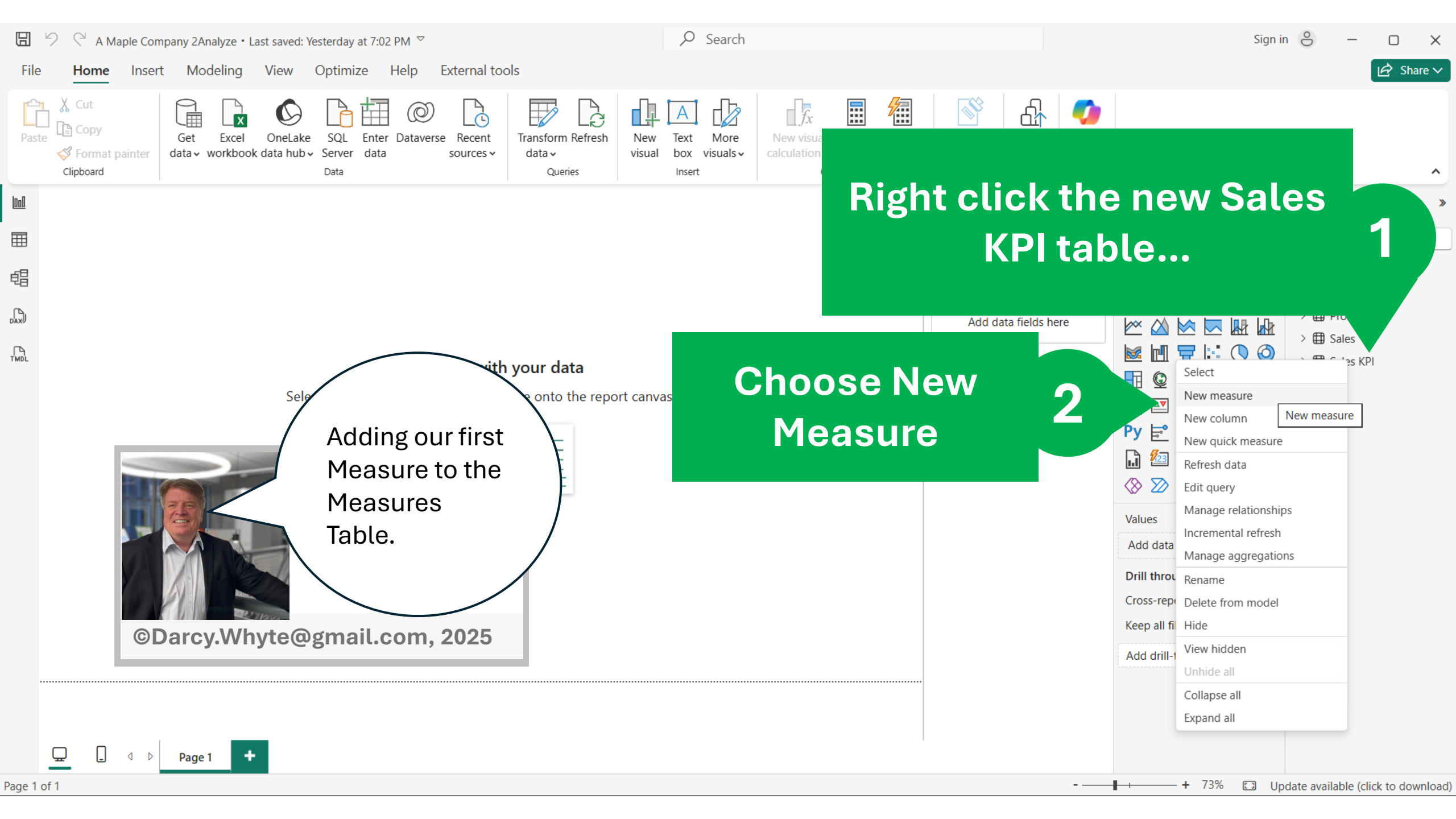
Name: Sales KPI

4

Load

Edit

Cancel



Right click the new Sales KPI table...

1

Choose New Measure

2

Adding our first Measure to the Measures Table.



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 Name Total Sales

 Format General

Data category **Uncategorized**

Home table Sales KPI

\$ % , $\frac{\cdot}{\cdot}$ Auto

Structure

Formatting

Properties

The icon for 'New measure Calculations' features a blue square with a white grid pattern, representing a standard calculator.

✖ ✓  Total Sales = SUMX(Sales, Sales[Pay Rate] * Sales[Hrs])

1

Control + to make font bigger if you want.

Type: Total Sales = sumx {tab}
sales{tab}
,Pay Rate{tab}
*hrs{tab}
{enter}

Visualizations

Build visual

Search

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Data

Search

- >  Branches
- >  Customers
- >  Products
- >  Sales
- ✓  Sales KPI

- ☐ Column1
- ☐  Total Sales

Our first
measure. Use
the {tab} key to
speed things up!

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1

3

Cancel

Delete from Model

2

Delete from model

Control + to make font bigger.
Type: Date = au{tab}
{enter}

5

**Move Date
table to
here**

2

4

Your new Date Table appears.

Creating a
Date Table is a
best practice.

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FileHomeHelpExternal tools

PasteCopy

Get dataExcelOneLakeSQL ServerEnter dataData

Clipboard

1 Date = CALENDARAUTO()

cts...Branches...Date...

CategoryDescriptionD

Add related tableNew measureNew columnManage relationshipsSelect columnsSelect measureDelete from modelHide in reportMark as date tableUnhide allCollapse allExpand all

All tables+

Mark as a date table

To enable the creation of date-related visuals, tables and quick measures using this table's date data, mark it as a date table.
Keep in mind any built-in date tables that are already associated with this table will be removed. Visuals or DAX expressions referring to them may break.

Mark as a date table

On

Choose a date column

Date

Validated successfully

SaveCancel

Share

Page Linguistic schemaSensitivityPublish

Data

TablesModel

Search

Sales KPI

Total Sales

Branches

Customers

Date

Products

Sales

Right click the Date table.

Mark as Date Table

3

4

5

This tells Power BI your new table is a "Date Table".

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Right click the Date table.

Mark as Date Table

3

4

5

This tells Power BI your new table is a "Date Table".

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Paste

Cut

Copy

Get data ▾

Excel workbook

OneLake data hub ▾

SQL Server Data

Enter data

Dataverse

Recent sources ▾

Transform data ▾

Refresh Queries

Manage relationships Relationships

New measure Calculations

New column Calculations

New table Calculations

Calculation group

Manage roles Security

View as

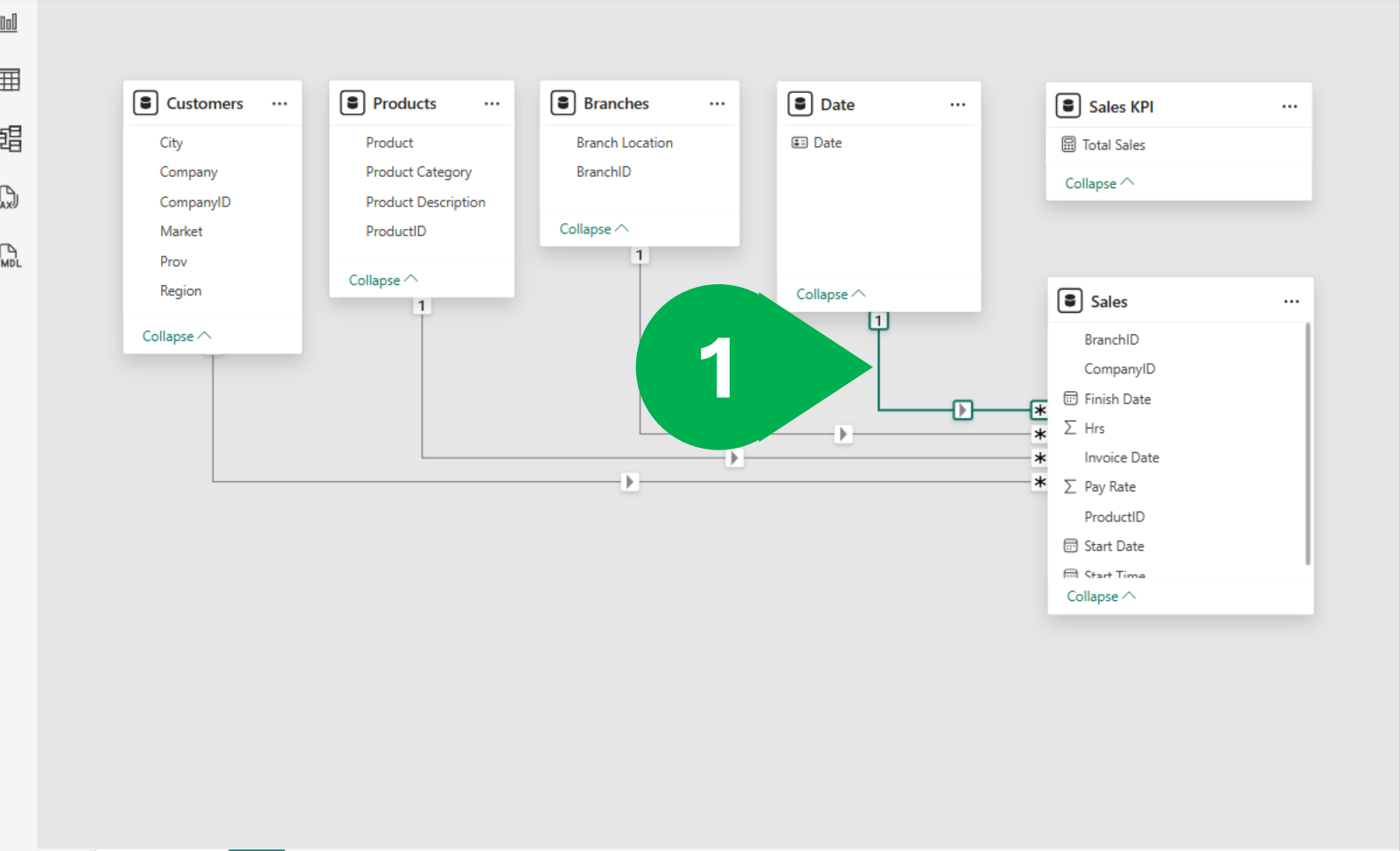
Q&A setup

Language Q&A

Linguistic schema ▾

Sensitivity Sensitivity

Publish Share



Properties

Relationship

Table: Sales, Column: Invoice Date

Cardinality: Many to one (*:1)

Table: Date, Column: Date

Make this relationship active: ☒ Yes

Cross-filter direction: Single

Apply: ☐

Data

Tables

Model

Search

Sales KPI

Total Sales

Branches

Customers

Date

The new line is a "Relationship".



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▼ Data

Date	
1899-01-01 12:00:00 AM	Sort ascending
1899-01-02 12:00:00 AM	Sort descending
1899-01-03 12:00:00 AM	Clear sort
1899-01-04 12:00:00 AM	Clear filter
1899-01-05 12:00:00 AM	Clear all filters
1899-01-06 12:00:00 AM	Copy
1899-01-07 12:00:00 AM	Copy table
1899-01-08 12:00:00 AM	New measure
1899-01-09 12:00:00 AM	New column
1899-01-10 12:00:00 AM	Rename
1899-01-11 12:00:00 AM	Delete
1899-01-12 12:00:00 AM	Hide in report view
1899-01-13 12:00:00 AM	Unhide all
1899-01-14 12:00:00 AM	New group
1899-01-15 12:00:00 AM	
1899-01-16 12:00:00 AM	
1899-01-17 12:00:00 AM	
1899-01-18 12:00:00 AM	
1899-01-19 12:00:00 AM	
1899-01-20 12:00:00 AM	
1899-01-21 12:00:00 AM	
1899-01-22 12:00:00 AM	
1899-01-23 12:00:00 AM	
1899-01-24 12:00:00 AM	
1899-01-25 12:00:00 AM	
1899-01-26 12:00:00 AM	
1899-01-27 12:00:00 AM	

Q Search

- ▼ Sales KPI
 - Total Sales
- > Branches
- > Customers
- ▼ Date
 - Date
- > Products
- > Sales

Adding columns to our Date Table for “Slicing” data later.



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The diagram illustrates four data manipulation options, each with an icon and a label:

- Sort by column**: Icon shows a grid with a blue arrow pointing down and a red arrow pointing up. Label: **Sort by column** (with a dropdown arrow) and **Sort**.
- Data groups**: Icon shows a grid with a blue plus sign. Label: **Data groups** (with a dropdown arrow) and **Groups**.
- Manage relationships**: Icon shows two grids connected by a double-headed arrow. Label: **Manage relationships** and **Relationships**.
- New column**: Icon shows a grid with a blue plus sign. Label: **New column** and **Calculations**.

1

```
Year = year{tab}
      [d{tab}
       {enter}]
```

Date	Year
1899-01-01 12:00:00 AM	1899
1899-01-02 12:00:00 AM	1899
1899-01-03 12:00:00 AM	1899
1899-01-04 12:00:00 AM	1899
1899-01-05 12:00:00 AM	1899
1899-01-06 12:00:00 AM	1899
1899-01-07 12:00:00 AM	1899
1899-01-08 12:00:00 AM	1899
1899-01-09 12:00:00 AM	1899
1899-01-10 12:00:00 AM	1899
1899-01-11 12:00:00 AM	1899
1899-01-12 12:00:00 AM	1899
1899-01-13 12:00:00 AM	1899
1899-01-14 12:00:00 AM	1899
1899-01-15 12:00:00 AM	1899
1899-01-16 12:00:00 AM	1899
1899-01-17 12:00:00 AM	1899
1899-01-18 12:00:00 AM	1899
1899-01-19 12:00:00 AM	1899
1899-01-20 12:00:00 AM	1899
1899-01-21 12:00:00 AM	1899
1899-01-22 12:00:00 AM	1899
1899-01-23 12:00:00 AM	1899
1899-01-24 12:00:00 AM	1899
1899-01-25 12:00:00 AM	1899
1899-01-26 12:00:00 AM	1899

Data

- ▼  Sales KPI
 -  Total Sales
- >  Branches
- >  Customers
- ▼  Date
 -  Date
 -  Year
- >  Products
- >  Sales

Formula for the new column in the Date Table.



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FileHome2

Table toolsColumn tools

PasteCutCopy

Get data workbook data hub

SQL Server Data

Enter data

Dataaverse

Recent sources

Transform data Queries

New measure Quick measure New column New table

Manage roles View as Security

Sensitivity

1 Year = year([Date])

Date	Year
1899-01-01 12:00:00 AM	1899
1899-01-02 12:00:00 AM	1899
1899-01-03 12:00:00 AM	1899
1899-01-04 12:00:00 AM	1899
1899-01-05 12:00:00 AM	1899
1899-01-06 12:00:00 AM	1899
1899-01-07 12:00:00 AM	1899
1899-01-08 12:00:00 AM	1899
1899-01-09 12:00:00 AM	1899
1899-01-10 12:00:00 AM	1899
1899-01-11 12:00:00 AM	1899
1899-01-12 12:00:00 AM	1899
1899-01-13 12:00:00 AM	1899
1899-01-14 12:00:00 AM	1899
1899-01-15 12:00:00 AM	1899
1899-01-16 12:00:00 AM	1899
1899-01-17 12:00:00 AM	1899
1899-01-18 12:00:00 AM	1899
1899-01-19 12:00:00 AM	1899
1899-01-20 12:00:00 AM	1899
1899-01-21 12:00:00 AM	1899
1899-01-22 12:00:00 AM	1899
1899-01-23 12:00:00 AM	1899
1899-01-24 12:00:00 AM	1899
1899-01-25 12:00:00 AM	1899
1899-01-26 12:00:00 AM	1899

1

3

Transform data Queries

New measure Quick measure New column New table

Manage roles View as Security

Sensitivity

1 Year = year([Date])

We now have a minimal Date table.

But we can see an issue. There are some very old dates that we don't expect.

Let's go to Transform data to fix it.

After that we'll return here and add more columns to the date table.



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Table: Date (42,003 rows) Column: Year (115 distinct values)

Update available (click to download)

A Maple Company 2Analyze

Home

Transform

Add Column

View

Tools

Help

Close & Apply

New Source

Recent Sources

Enter Data

Data source settings

Manage Parameters

Refresh Preview

Properties

Advanced Editor

Manage

Choose Columns

Remove Columns

Keep Rows

Remove Rows

Sort

Split Column

Group By

Replace Values

Data Type: Date/Time

Use First Row as Headers

Merge Queries

Append Queries

Combine Files

Text Analytics

Vision

Azure Machine Learning

Combine

AI Insights

Queries [10]

Sales

Products

Customers

Branches

Canada

Export

Product Info

World

Combined Sales

Sales KPI

Table.SelectColumns('Sales', Other Columns", each [Invoice Date] >= #date(2007, 1, 1) and [Invoice Date] <= #date(2008, 12, 31))

Invoice Date

Start Time

Pay Rate

CompanyID

12007-11-021899-12-31 2:244240.07

22007-08-091899-12-31 11:332147.22

32007-02-261899-12-31 2:102163.51

42007-02-261899-12-31 9:282177.5

52007-03-011899-12-31 10:052138.09

61899-12-31 9:532134.01

71899-12-31 3:482134.01

81899-12-31 3:472180.57

91899-12-31 4:392181.01

101899-12-31 11:552135.12

111899-12-31 11:292163.51

121899-12-31 12:152177.5

131899-12-31 3:242134.01

141899-12-31 11:492134.01

151899-12-31 2:582138.09

161899-12-31 12:322134.01

171899-12-31 1:022147.22

181899-12-31 9:232134.01

191899-12-31 12:132181.01

201899-12-31 3:112129.09

211899-12-31 3:012129.09

221899-12-31 2:58:32 PM2007-04-262134.01

231899-12-31 4:37:36 PM2007-06-072147.22

241899-12-31 10:05:11 AM2007-04-292134.01

252007-09-172007-10-051899-12-31 12:36:54 PM2007-10-132181.01

262007-05-162007-05-161899-12-31 2:53:57 PM2007-05-222129.09

Query Settings

PROPERTIES

Name

Sales

All Properties

APPLIED STEPS

Source

Merged Queries

Expanded Products

Removed Other Columns

Filtered Rows

1

The Start Time has old dates. We're not using this column, so we'll get rid of it.

2

Right Click the column and remove.

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9 COLUMNS, 999+ ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED ON WEDNESDAY

Close & Apply

Source

Enter Data

Data source settings

Manage Parameters

Refresh Preview

Properties

Advanced Editor

Manage

Choose Columns

Home

Transform

Add Column

View

Tools

Help

Queries [10]

Sales

Invoice Date

Start Time

Sort Ascending

Sort Descending

Clear Sort

Clear Filter

Remove Empty

Date Filters

Search

(Select All)

2003-12-30

2007-01-02

2007-01-04

2007-01-05

2007-01-06

2007-01-07

2007-01-08

2007-01-09

2007-01-12

2007-01-13

2007-01-14

2007-01-15

2007-01-16

2007-01-19

2007-01-20

List may be incomplete. Load more

OK

Cancel

Equals...

Before...

After...

Between...

In the Next...

In the Previous...

Is Earliest

Is Latest

Is Not Earliest

Is Not Latest

Year

Quarter

Month

Week

Day

Hour

Minute

Second

Custom Filter...

Filter Rows

Apply one or more filter conditions to the rows in this table.

Basic

Advanced

Keep rows where 'Invoice Date'

is after or equal to

2007-01-01

is before or equal to

2008-12-31

OK

Cancel

While we're here, lets filter the Invoice Date.

The issue here is that the Invoice date contains some incorrect dates (outside of range). In "real life" this sort of data issue would need to be investigated.

But here, we're going to filter it out.

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PREVIEW DOWNLOADED ON WEDNESDAY

1

2

Let's add two more columns in the same way we added the Year column earlier. You can use the "New Column" button if you like. Don't forget to press enter after each formula. Here are the two formulas for the two columns:

Month = format([Date], "mmm") {enter}

Month# = month([Date])

1 Year = year([Date])

Date	Year
2007-01-01 12:00:00 AM	2007
2007-01-02 12:00:00 AM	2007
2007-01-03 12:00:00 AM	2007
2007-01-04 12:00:00 AM	2007
2007-01-05 12:00:00 AM	2007
2007-01-06 12:00:00 AM	2007
2007-01-07 12:00:00 AM	2007
2007-01-08 12:00:00 AM	2007
2007-01-09 12:00:00 AM	2007
2007-01-10 12:00:00 AM	2007
2007-01-11 12:00:00 AM	2007
2007-01-12 12:00:00 AM	2007
2007-01-13 12:00:00 AM	2007
2007-01-14 12:00:00 AM	2007
2007-01-15 12:00:00 AM	2007
2007-01-16 12:00:00 AM	2007
2007-01-17 12:00:00 AM	2007
2007-01-18 12:00:00 AM	2007
2007-01-19 12:00:00 AM	2007
2007-01-20 12:00:00 AM	2007
2007-01-21 12:00:00 AM	2007
2007-01-22 12:00:00 AM	2007
2007-01-23 12:00:00 AM	2007
2007-01-24 12:00:00 AM	2007
2007-01-25 12:00:00 AM	2007
2007-01-26 12:00:00 AM	2007

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Now we're going to add whatever columns we need to slice the data. We're interested in Year and Month at the moment.

Table: Date (731 rows) Column: Year (2 distinct values)

Update available (click to download)

FileHomeHelpTable toolsColumn tools

Search

Sign in

Share

Select Month column

1

2

Make sure you're in Column tools

3

It's a common mistake to miss this step.

Good work for getting this far!

Type this sentence into group chat:
I did the step to sort the Month column chronologically.

1 Month = ...([Date], "mmm")

Date	Year	Month	Month#
2007-01-01 12:00:00 AM	2007	Jan	1
2007-01-02 12:00:00 AM	2007	Jan	1
2007-01-03 12:00:00 AM	2007	Jan	1
2007-01-04 12:00:00 AM	2007	Jan	1
2007-01-05 12:00:00 AM	2007	Jan	1
2007-01-06 12:00:00 AM	2007	Jan	1
2007-01-07 12:00:00 AM	2007	Jan	1
2007-01-08 12:00:00 AM	2007	Jan	1
2007-01-09 12:00:00 AM	2007	Jan	1
2007-01-10 12:00:00 AM	2007	Jan	1
2007-01-11 12:00:00 AM	2007	Jan	1
2007-01-12 12:00:00 AM	2007	Jan	1
2007-01-13 12:00:00 AM	2007	Jan	1
2007-01-14 12:00:00 AM	2007	Jan	1
2007-01-15 12:00:00 AM	2007	Jan	1
2007-01-16 12:00:00 AM	2007	Jan	1
2007-01-17 12:00:00 AM	2007	Jan	1
2007-01-18 12:00:00 AM	2007	Jan	1
2007-01-19 12:00:00 AM	2007	Jan	1
2007-01-20 12:00:00 AM	2007	Jan	1
2007-01-21 12:00:00 AM	2007	Jan	1
2007-01-22 12:00:00 AM	2007	Jan	1
2007-01-23 12:00:00 AM	2007	Jan	1
2007-01-24 12:00:00 AM	2007	Jan	1
2007-01-25 12:00:00 AM	2007	Jan	1
2007-01-26 12:00:00 AM	2007	Jan	1
2007-01-27 12:00:00 AM	2007	Jan	1
2007-01-28 12:00:00 AM	2007	Jan	1

Sort by column

Month

Date

Month#

Year

Date

Date

Month

Month#

Year

The Month column is text, and it will tend to sort alphabetically. Later, when we use this column in a visual, we'd like it to sort chronologically.

We are going to set up a sort for this column based on the Month#.



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Table: Date (731 rows) Column: Month (12 distinct values)

1

KPI

Structure

Manage relationships
Relationships

New visual calculation
Calculations

New measure
Calculations

Quick measure
Calculations

New column
Calculations

New table
Calculations

Mark as date table
Calendars

2

Here's a new measure to add to the Measures table:

Total Hours = sum(Sales[Hrs])

Can you remember how to add the measure?

(You can right click the measures table and choose New Measure. After you've entered the measure, don't forget to press enter).

Filters

Visualizations

Data

Build visual

Search

Filters on this page

Add data

Sales KPI

Total Sales

Branches

Products

Sales

Measures table

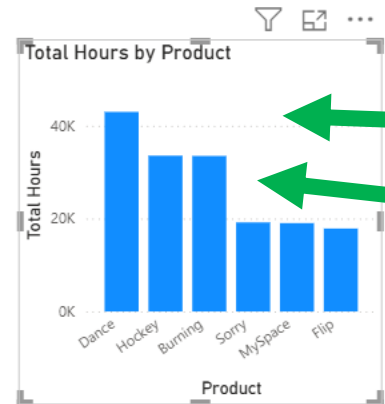
When you want to add measures, you'll want to right click the measures table and choose "New Measure".



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Clipboard: Paste, Cut, Copy, Format painter

Data: Get data, Excel workbook catalog, OneLake Server, SQL Server, Enter data, Dataverse, Recent sources, Transform data, Refresh, New visual, Text box, More visuals, New visual calculation, New measure, Quick measure, Sensitivity, Publish, Prep data for Copilot AI, Copilot



1 Drag Total Hours to the canvas.

Expand 2

3

Drag the Product to the Visual.

Data

Search

- Sales KPI
 - ☒ Total Hours
 - ☐ Total Sales
- Branches
- Customers
- Products
 - ☒ Product
 - ☐ Product Category
 - ☐ Product Descrip...
 - ☐ ProductID
- Sales

Filters on this visual

Product is (All)

Total Hours is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

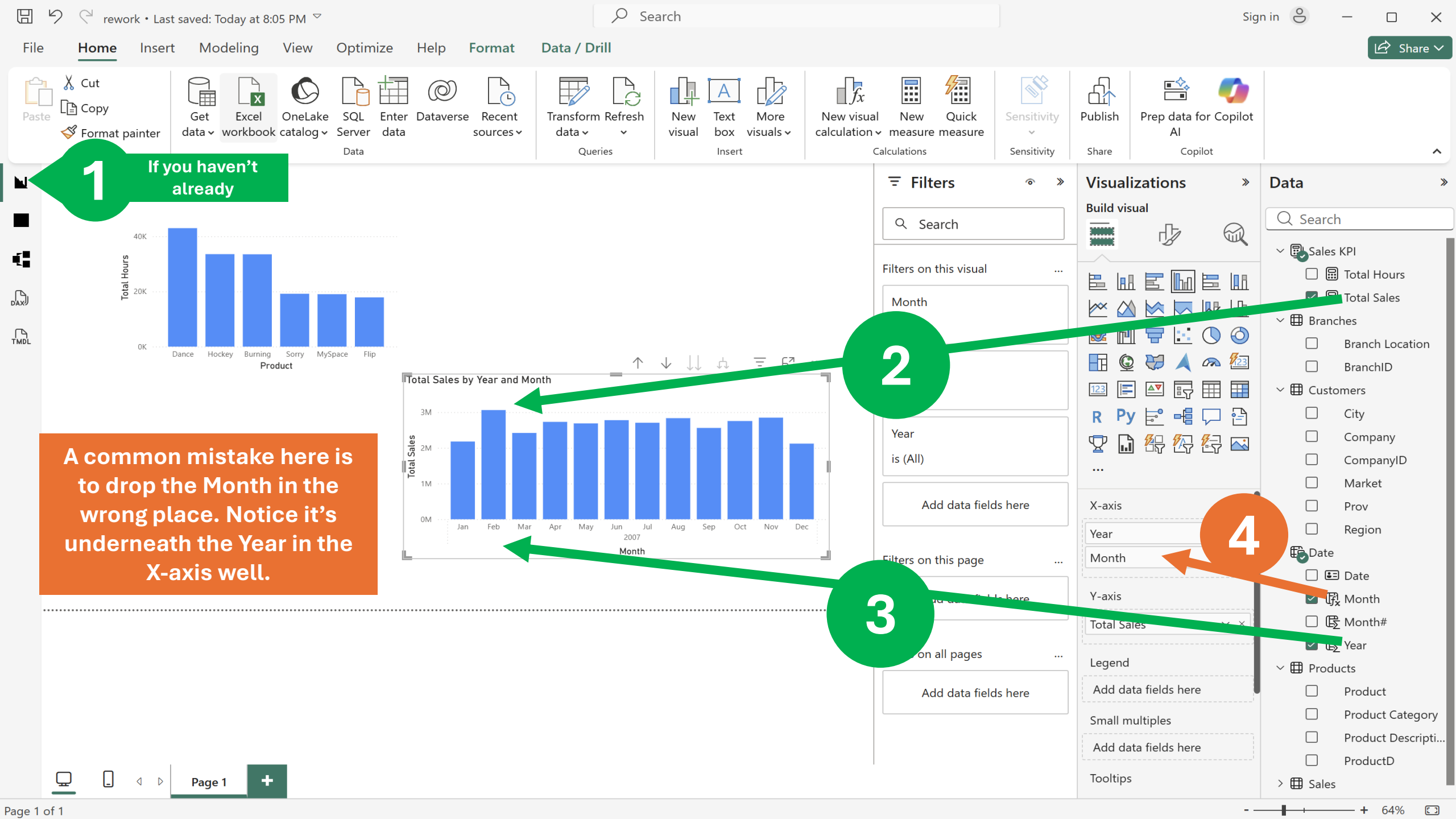
X-axis: Product

Y-axis: Total Hours

Legend: Add data fields here

Small multiples: Add data fields here

Tooltips: Add data fields here



Paste

CutCopyFormat painterClipboard

Get data

Excel workbook

OneLake catalog

SQL Server

Enter data

Data

Dataverse

Recent sources

Transform data

Refresh

Queries

New visual

Text box

More visuals

Insert

New visual calculation

New measure

Quick measure

Calculations

Sensitivity

Sensitivity

Publish

Share

Prep data for Copilot AI

Copilot

Total Hours by Product

Total Sales by Year and Month

Filters

Search

Filters on this visual

Month is (All)

Total Sales is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Visualizations

Build visual

Line Chart

2

Line Chart

X-axis

Year

Month

Y-axis

Total Sales

Secondary y-axis

Add data fields here

Legend

Add data fields here

Small multiples

Data

Search

Sales KPI

Total Hours

Total Sales

Branches

Branch Location

BranchID

Customers

City

Company

CompanyID

Market

Prov

Region

Date

Date

Month

Month#

Year

Products

Product

Product Category

Product Descripti...

ProductID

Sales

Page 1

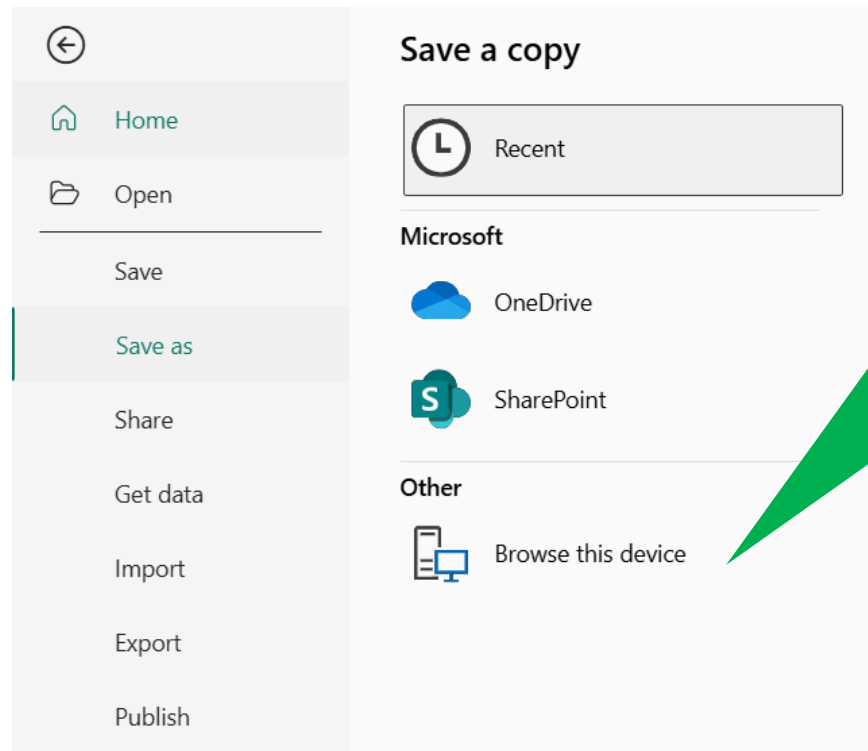
+



**Good
Work!**

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You may want to
save your work.
After choosing
File/Save as you
may want to
choose **Browse
this device**. Then
save at the
desired location.



**The following slides
are optional. They're
just a reminder of the
four main screens of
Power BI.**



Now that we've
worked with Power
BI a bit, lets have a
quick tour of four of
the main screens
of Power BI!

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PasteCopyFormat painterClipboard

1) Power Query (ETL)

Transform Refresh data

New visualText boxMore visuals

New visual calculationNew measureQuick measure

SensitivityPublishCopilot

2) Report View
3) Table View
4) Model View



The four main “Screens” of Power BI

The first screen is labelled inconsistently for historical reasons. The button is labeled “Transform Data” but brings you to “The Power Query Editor”. You can also get to it by right-clicking a table in the Data Panel on the right and choosing “Edit Query”. People often refer to this screen as the ETL screen as well (Extract, Transform, Load).

Lets go to this screen by clicking the red triangle.



Darcy.Whyte@gmail.com

1) The Power Query Editor

1

Double Click the Menu to collapse and expand.

4

Return to the main screen.

2

Click a Query to view its content.
This is just a preview of the first 1000 records.

The steps that have been performed on this Query.
Some of them will have been added automatically
and some will have been done by you.

3

Sales

Home Transform Add Column View Tools Help

Close & Apply Recent sources Enter Data Data source settings Data Sources Parameters Advanced Editor Properties

Query recent sources

Properties Advanced Editor

Manage Columns Reduce Rows Sort Transform

Data Type: Decimal Number Use First Row as Headers

Queries [1]

Sales

Customer

Product

Sales KPI

Holiday

east

product short

west

Performance KPI

State Codes

Province Codes

1,2	Amount	123	Hrs	Invoice	Service	123	CustomerID	123
1	134.01		3	2007-03-24	2007-04-02		380454	
2	134.01		3	2007-05-21	2007-05-22		380766	
3	163.54		3	2007-07-15	2007-08-10		2304444	
4				2007-07-15	2007-08-14		2304444	
5				2007-09-10	2007-10-04		2770843	
6				2007-01-07	2007-01-13		383940	
7				2007-03-12	2007-04-09		964779	
8				2007-07-09	2007-07-12		9035678	
9				2007-09-17	2007-09-24		1921890	
10	134.38		2	2007-12-16	2008-02-04		384004	
11	139.68		2	2007-01-16	2007-01-22		369352	
12	168.82		2	2007-01-29	2007-02-07		353940	
13	110.79							
14	114.46							
15	181.83							
16	125.23							
17	161.15							
18	157.52							
19	164.77		2	2007-02-27	2007-03-21		2362248	
20								

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

Query Settings

PROPERTIES

Name

Sales

All Properties

APPLIED STEPS

Source

Removed Columns

Renamed Columns

Removed Columns1

Sorted Rows

Removed Columns2

PREVIEW DOWNLOADED AT 2:24 PM

2) Report View

Click to collapse and expand menu.

1

5
Format
selected
visual.

4
Gallery shows which type
of visual is selected in the
Canvas.

2
Report Canvas

3
Add
Pages

6

Your
Data
Model

The screenshot displays the Microsoft Power BI Report View interface. At the top, the ribbon includes tabs for File, Home, and Insights. The Home tab is active, showing various toolbars for data sources (Get data, Excel, OneLake, SQL Server, Enter data, Dataverse, Recent sources), data transformations (Transform, Refresh), new visuals (New visual, Text box, More visuals), calculations (New calculation, New measure, Quick measure), and publishing options (Sensitivity, Publish, Copilot). A red arrow points to the left sidebar, which contains navigation icons for Report Canvas, Data Model, and other views. The main area is the Report Canvas, which contains several visualizations: a bar chart titled 'by FY and Month' showing data for January, February, and March of FY2007; a map titled 'Total Sales by Product' showing sales distribution across the United States; and two bar charts titled 'Total Sales by Product' and 'Total Sales by Region'. A green callout '1' points to the top right corner of the ribbon. A green callout '2' points to the Report Canvas. A green callout '3' points to the 'Add Pages' button at the bottom. A green callout '4' points to the visualization gallery on the right. A green callout '5' points to the 'Format selected visual' button. A green callout '6' points to the 'Your Data Model' section on the right. The bottom status bar shows 'Page 1 of 5' and a zoom level of 60%.

Hide tables and fields

2

1

**Click a
table to
view**

App	Hrs	Invoice	Service	CustomerID	Product_No	Invoice_No	Branch	Speed of Service (wd)	Speed of
1	1	April 23, 2007	May 10, 2007	2297128	16000	1083240	301316	13	
98.91	1	January 27, 2007	March 6, 2007	2146893	16000	1953496	301316	26	
98.91	1	January 28, 2007	February 16, 2007	773090	16000	1955938	301316	14	
98.91	1	January 30, 2007	February 27, 2007	992239	16000	1963928	301316	20	
98.91	1	January 30, 2007	February 26, 2007	1742718	16000	1964093	301316	19	
98.91	1	February 5, 2007	February 14, 2007	2121080	16000	1971778	301316	7	
98.91	1	August 5, 2007	August 7, 2007	2859224	16000	2286540	301316	1	
98.91	1	November 16, 2007	December 6, 2007	2875953	16000	2475007	301316	1	
98.91	1	January 16, 2007	February 1, 2007	772521	16000	25110500	301316	1	
98.91	1	January 14, 2007	January 21, 2007	1873656	16000	25159464	301316	1	
98.91	1	January 19, 2007	January 22, 2007	156843	16000	25209649	301316	1	
98.91	1	January 26, 2007	March 4, 2007	1931987	16000	25256661	301316	26	
98.91	1	January 23, 2007	March 3, 2007	2806219	16000	25256792	301316	29	
98.91	1	January 30, 2007	February 19, 2007	158892	16000	25305744	301316	14	
98.91	1	February 5, 2007	February 27, 2007	2293843	16000	25356945	301316	16	
98.91	1	February 11, 2007	February 26, 2007	158372	16000	25407790	301316	10	
98.91	1	March 8, 2007	March 13, 2007	706273	16000	25407846	301316	3	
98.91	1	February 19, 2007	February 24, 2007	2605097	16000	25458122	301316	5	
98.91	1	February 19, 2007	March 21, 2007	2673364	16000	25458131	301316	22	
98.91	1	February 23, 2007	March 2, 2007	2776220	16000	25458151	301316	5	

Category	Value
Category 1	10
Category 2	20
Category 3	30
Category 4	40
Category 5	50
Category 6	60
Category 7	70
Category 8	80
Category 9	90
Category 10	100

🔍 Search

- >  Performance KPI
- >  Sales KPI
- >  Calendar
- >  Customer
- >  Holidays
- >  Product
- >  Sales

4) Model View

Organize Measures

2

Document and
configure members.

4

Hierarchies

3

1

Relationships

Sales • Last saved: Today at 2:35 PM

File Home Help External tools

Paste Get data Excel workbook OneLake data hub SQL Server Enter data Dataverse Recent sources Transform Refresh data Queries Manage relationships

Customer Product Calendar Sales Sales KPI Performance KPI Holidays

City

Customer_Name

CustomerID

Geo

Region

State

City

Location

Market

Region

Properties

General

Name

City

Description

Enter a description

Synonyms

Display folder

Enter the display folder

Tables Model

Search

Performance KPI

Sales KPI

Calendar

Customer

City

Customer_Name

CustomerID

Geo

Region

State

City

Location

Market

Region

All tables

54%

Update available (click to download)



Power BI



Good
Work!

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