

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Queries Data

Get data Excel Power BI SQL Server Enter recent data sources

Transform Refresh data New visual Load box More visuals New Quick measure

Calculated Share

Open and Save

Power BI Desktop

Get data Recent sources

sale information BI report.p... Y: > Workplace > Teaching > Busin...

Business intelligence cours... Y: > Workplace > Teaching > Busin...

test.pbix Y: > Workplace > Teaching > Busin...

sample 1.pbix Y: > Workplace > Teaching > Busin...

Open other reports

Yong Liu

WHAT'S NEW

Take a look at what's new and improved in Power BI in this month's update.

FORUMS

Visit the Power BI Forum to ask questions or interact with other users in the Power BI community.

POWER BI BLOG

Keep up to date with the latest news, resources, and updates from the Power BI team.

TUTORIALS

Ready to learn more about Power BI?

- Get started with Power BI Desktop
- Download a sample
- Watch our training videos
- See what others have built
- All guided learning

VIEW ALL VIDEOS

Show this screen on startup

Visualizations

Filters

Fields

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Page 1 of 1

Windows Taskbar

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Padre Copy Data Load Power BI SSD Enter Recent Refresh Data Sources

Queries Data Sources Insert Calculations Sheet

New visual New page Visuals Publish

Import data from a Microsoft Excel workbook

Add data to your report

Once loaded, your data will appear in the Fields pane.

Import data from Excel Import data from SQL Server Paste data into a blank table Try a sample dataset

Get data from another source →

Visualizations Filters Fields

Add data fields here Drill through Create report Off On Keep all filters Off On Add drill-through fields here

Page 1 +

Page 1 of 1

Windows Taskbar icons

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Add data to your report

Once loaded, your data will appear in the Fields pane.

File name: Excel Files (*.xl*;*.xlsx;*.xlsm;*.xls*)

Open Cancel

Import data from Excel Import data from SQL Server Paste data into a blank table Try a sample dataset

Get data from another source →

Organize New folder

Name Date modified Type Size

This PC

- documents
- diamonds.xlsx 28/12/2020 15:44 Microsoft Excel Worksheet 1.5 KB
- payments in Excel.xlsx 19/12/2020 08:54 Microsoft Excel Worksheet 1.5 KB
- Financial Sample.xlsx 14/02/2020 08:45 Microsoft Excel Worksheet 19.9 KB

Share Publish

Visualizations

Fields

Values Add data fields here

Drill through

Cross-report

Off

Keep all filters On

Add drill-through fields here

Page 1

Page 1 of 1

10:58 31/12/2020

Untitled Power BI Desktop

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File Home Insert Modeling View Help

Queries Data Insert Calculations Share

Navigator

Display Options

payments in Excel.xlsx [1]
payments

No items selected for preview

Import data from

Load Transform Data Cancel

Visualizations Fields

Values Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Page 1

Page 1 of 1

个性化设置 点我看
S 英 10:58 31/12/2020

This screenshot shows the Power BI Desktop interface. The main window displays the 'Navigator' dialog box, which lists a single item: 'payments' from 'payments in Excel.xlsx'. The 'Home' tab is selected in the ribbon. The right side of the screen contains the 'Visualizations' and 'Fields' panes, which are currently empty. The taskbar at the bottom shows various application icons, and the system tray indicates the date and time as 31/12/2020 at 10:58.

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Clipboard Data Queries Insert Calculators Share

Get data Get Excel Power BI SQL Server Recent sources Transform data New visual Insert box More visuals New Quick measure measure Publish

Upload Data Sources Data Sources

Navigator

Display Options

payments in Excel [1]

payments

payments

No items selected for preview

Import data from

Load Transform Data Cancel

Visualizations Fields

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1 of 1

Page 1

个性化设置，点我看

Untitled - Power BI Desktop

Yong Liu

File Home Modeling View Help

Queries Data Calculations Share

Transform Refresh data New visual Text box More visuals Insert

Power Copy Get data Power BI datasets Server Enter data sources Recent

Get date Data

Open

Navigator

payments

Preview downloaded on 19 December 2020

Display Options

payments in Excel [1]

payments

customerNumber	checkNumber	paymentDate	amount
103 H0336138		19/10/2004	6066.78
109 JM555205		05/06/2003	1451.44
109 OM014933		18/12/2004	1676.14
112 BO864823		17/12/2004	14191.12
112 HQ05022		06/06/2003	32641.88
112 ND748579		20/08/2003	33347.88
114 GG33455		20/05/2003	45864.03
114 MA7659315		15/12/2004	82261.22
114 NP603840		32/05/2003	7565.08
114 NR27552		10/03/2003	44894.74
119 DB933704		14/11/2004	19501.82
119 UN373447		06/08/2004	47924.19
119 NG94694		22/02/2005	49523.67
121 DB889831		16/02/2003	50218.85
121 F0317790		28/10/2003	1491.38
121 K0831359		04/11/2004	17876.32
121 MA302151		28/11/2004	34638.14
124 AE215433		05/03/2005	101244.59
124 BG255406		28/08/2004	85410.87
124 CO287967		13/04/2003	31044.3
124 ET164396		16/04/2003	83598.04
124 HI366474		27/12/2004	47342.7
124 HR880578		02/11/2004	55639.86

Load Transform Data Cancel

Import data from

Visualizations Fields

Values Add data fields here

Drill through Cross-report Off Keep all filters On Add drill-through fields here

Page 1

Page 1 of 1

10:59 31/12/2020

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Cut Copy Paste External queries Clipboard

Save Local Power BI Data Model Refresh data Queries

New visual Insert

Transform data

New box More visuals

Measure measure

Calculations

Share

Navigator

payments

Preview downloaded on 19 December 2020

Display Options

payments in Excel (1)

payments

customerNumber	checkNumber	paymentDate	amount
103 HQ365338		19/10/2004	6066.78
103 IM555205		05/06/2003	1451.44
103 OM314984		18/12/2004	1626.14
112 BO864823		17/12/2004	14191.12
112 HQ35022		06/06/2003	32641.88
112 NS748579		20/08/2003	33347.88
114 GG11455		20/05/2003	45864.03
114 MA765515		15/12/2004	82261.22
114 NP003840		32/05/2003	7565.08
114 NR27552		10/03/2003	44894.74
119 DB933704		14/11/2004	19501.82
119 UN373447		08/08/2004	47924.19
119 NG94694		22/02/2005	49523.67
121 DB889831		16/02/2003	50218.85
121 F0317790		28/10/2003	1491.38
121 KB31359		04/11/2004	17876.32
121 MA302151		28/11/2004	34638.14
124 AE215433		05/03/2005	105244.59
124 BG255406		28/08/2004	85410.87
124 C02B7967		11/04/2003	11044.3
124 E164396		16/04/2005	83598.04
124 H036474		27/12/2004	47142.7
124 H086578		02/11/2004	55639.66

Import data from

Load Transform Data Cancel

Visualizations

Filters

Fields

Values

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

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10:59 31/12/2020

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Clipboard Data Queries Insert Calculations Share

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Visualizations Fields

Search

payments

- amount
- checkNum...
- customerN...

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Page 1 of 1

11:00 31/12/2020

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Get data Copy Format painter Clipboard

Get data Excel Power BI datasets Server Enter data sources Data

Transform Refresh queries Queries

New visual Lead box More visuals Insert

New measure Quick measure Insert Calculations

Measure visual Publish Share

Visualizations Fields

Search

Name payments Storage mode Import Last refresh 31/12/2020 10:59:58

Values Add data fields here

Drill through Cross-report Off Keep all filters On Add drill-through fields here

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Page 1

Untitled - Power BI Desktop

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File Home Help Table tools

Name: payments

Table tools

- Mark an data table
- Manage relationships
- New measure
- New column
- New table

Calendars Relationships Calculations

customerNumber checkNumber paymentDate amount

customerNumber	checkNumber	paymentDate	amount
309	HQ836236	19 October 2004	6066.78
103	JM555205	05 June 2003	14571.44
309	OM514933	18 December 2004	1676.14
112	B0864823	17 December 2004	14191.12
312	HQ5502	06 April 2003	32641.98
112	ND748579	20 August 2004	33347.88
314	GG31455	20 May 2003	45864.03
314	MA765515	15 December 2004	82261.22
314	NP603840	31 May 2003	7565.08
314	NR27552	10 March 2004	44894.74
119	DB033704	14 November 2004	19501.82
319	LN373447	09 August 2004	47924.19
119	NG04604	22 February 2005	49523.67
321	DBB89831	16 February 2003	50228.95
321	FD317790	28 October 2003	1491.38
321	KI831359	04 November 2004	17876.32
321	MA302151	26 November 2004	34638.14
324	AE210433	05 March 2005	101244.39
324	BG255406	28 August 2004	85410.87
324	CQ287967	11 April 2003	11044.3
324	ET64396	16 April 2005	83598.04
324	HI366474	27 December 2004	47142.7
324	HR86578	02 November 2004	55639.66
324	KI131716	15 August 2003	111654.4
324	LF212799	26 March 2004	43389.3
324	NT141748	25 November 2003	45084.38
328	DI925118	28 January 2003	10549.01
328	FA465482	18 October 2003	24101.87
328	TH656230	24 March 2004	33820.62
328	IP883901	18 November 2004	7466.32
329	DM826140	08 December 2004	26248.78
329	ID449193	11 December 2003	29224.93
329	PH12991	09 April 2003	16537.85
331	CI442707	17 March 2003	22291.62
331	MA724562	02 December 2004	50025.35
331	NE643010	17 September 2004	81821.97
331	AU361101	19 July 2003	36251.03
343	OH018216	01 November 2004	861401.48

Table: payments (273 rows)

Search

Fields

payments

amount

checkNumber

customerNumber

paymentDate

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File Home Insert Modeling View Help

Cut Copy Paste Format painter Clipboard

Get data Get Power BI delivery server Enter data Recent sources Transform refresh data New visual Insert box More visuals New measure Quick measure measure Calculations Share Publish

Queries Data Insert

Build

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

payments

New measure

New column

New quick measure

Refresh data

Edit query

Incremental refresh

Manage aggregations

Rename

Delete Hide

Mark as date table

View hidden

Unhide all

Add drill-through fields here

Expand all

Collapsible sidebar

Page 1

11:00 31/12/2020

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Get data Copy Paste Recent sources Transform Refresh New visual Insert More visuals Queries Insert Calculations Share

Common data sources

- Excel
- Power BI datasets
- Power BI dataflows
- SQL Server
- Analysis Services
- Text/CSV
- Web
- OData feed
- Blank query
- Power BI Template Apps

Import data from a text or CSV file.

Add data to your report

Once loaded, your data will appear in the Fields pane.

Import data from Excel Import data from SQL Server Paste data into a blank table Try a sample dataset

Get data from another source →

Visualizations Fields

Search

You haven't loaded any data yet. Get data

Add data fields here

Drill through

Cross-report

Off On

Keep all filters

Add drill-through fields here

Page 1

Open Untitled - Power BI Desktop Yong Liu

Organize New folder

Name Date modified Type Size

- This PC
 - key influencer analysis.csv
 - Medical_Cost.csv
 - clothes review.csv
 - time series forecast dataset.csv
 - payments in CSV.csv
 - useful links
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Auto HD (C:)
- USB Drive (D:)
- luy13 (Work\luy13)
- data \home.org

File name: Text Files (*.txt;*.csv;*.pm) Open Cancel

Add data to your report

Once loaded, your data will appear in the Fields pane.

Import data from Excel Import data from SQL Server Paste data into a blank table Try a sample dataset

Get data from another source →

Visualizations Fields

You haven't loaded any data yet. Get data

Filters

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Page 1 of 1

任务栏图标

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File Home Modeling View Help

Clipboard

Get data

Excel Power BI SQL Server Data Sources

Transform Refresh

Queries

New visual

Text box

More visuals

Enter data

Recent sources

Insert

Calculated measure

Measure

Share

Power BI Desktop

Import

CSV

Delimited

JSON

Parquet

XML

Excel

Power BI

SQL Server

Data

Queries

Insert

Calculations

Share

Import data from Excel

payments in CSV.csv

File Origin: 1252-Western European (Windows)

Delimiter: Comma

Data Type Detection: Based on first 200 rows

customerNumber	checkNumber	paymentDate	amount
103	H11436336	19/10/2004	6266.78
103	IM555205	05/06/2003	14571.44
103	OM314933	28/12/2004	1876.14
112	B0804823	17/12/2004	14191.12
112	HQ55022	06/06/2003	32641.98
112	ND148579	20/08/2004	33347.88
114	GG31455	20/05/2003	45864.03
114	MA765515	15/12/2004	82261.22
114	NP603840	31/05/2003	7965.08
114	NH27552	10/03/2004	44894.74
119	DB933704	14/11/2004	19901.82
119	LN373447	08/08/2004	47924.19
119	NG94694	22/02/2005	49523.87
121	DB889831	16/02/2003	50218.95
123	FD317790	28/10/2003	1491.38
123	K8811359	04/11/2004	17876.32
121	MA302151	28/11/2004	34638.14
124	AE215433	05/03/2005	101244.59
124	RG255406	28/08/2004	85410.87
124	CO1787967	11/04/2003	11044.3

The data in the preview has been truncated due to size limits.

Next Transform Data Cancel

Visualizations Fields

Search

You haven't loaded any data yet. Get data

Import

CSV

Delimited

JSON

Parquet

XML

Excel

Power BI

SQL Server

Data

Queries

Insert

Calculated measure

Measure

Share

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Cut Copy Paste Get data External sources Data Get Power BI datasets Server Enter data sources Refresh data Queries New visual Feed box More visuals New measure Quick measure Calculators Publish

Build

Build visual with your data
Select or drag fields from the Fields pane onto the report canvas.

Visualizations Fields

Search payments in CSV amount checkNum... customerN... paymentDate Values Add data fields here Drill through Cross-report Off Keep all filters On Add drill-through fields here

Page 1

Page 1 of 1

Untitled - Power BI Desktop

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File Home Modeling View Help

Common data sources

- Excel
- Power BI datasets
- Power BI dataflows
- SQL Server
- Analysis Services
- Text/CSV
- Web
- OData feed
- Blank query
- Power BI Template Apps

More... Connect to data from multiple sources.

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Queries

Insert

Calculations

Share

Visualizations

Fields

Search

payments in CSV

- amount
- checkNum
- customerN...
- paymentDate

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1 of 1

11/12/2020 11:09

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Get data Copy Cut Paste Recent sources Data Transform Refresh data New visual Insert More visuals Queries Calculators Share

Get data CSV Power BI SQL Server Enter data sources Data Transform Refresh data New visual Insert More visuals Queries Calculators Share

Visualizations Fields

Filters

Get Data

Search

All

Database

Power Platform

Azure

Online Services

Other

MySQL database

Certified Connectors

Template Apps

Connected

Cancel

Build

Select or drag fields

Page 1

payments in CSV

amount

checkNum...

customerN...

paymentDate

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Untitled

Yong Lu

File Home Insert Modeling View Help

Open New Get data Copy Format painter Get data Power BI datasets Server Enter data sources Refresh data Transform data New visual Text box More visuals Insert New measure Quick measure Publish Calculations Share

Queries Data

Visualizations Fields

MySQL database

Server: 127.0.0.1 Database: classimodels Advanced options OK Cancel

Select or drag

Page 1

11:03 31/12/2020

Untitled - Power BI Desktop

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File Home Insert Modeling View Help

Clipboard Data Queries Insert Calculations Share

Power Query Data Sources Enter data Refresh data Transform data New visual Insert box More visuals New measure Quick measure Publish

Visualizations Fields

Search payments in CSV

amount checkNum... customerN... paymentData

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Select or drag

MySQL database

Windows: 127.0.0.1;classicmodels

User name: root

Password: [REDACTED]

Select which level to apply these settings to: 127.0.0.1

Back Connect Cancel

Page 1

The screenshot shows the Microsoft Power BI desktop application interface. The top menu bar includes File, Home, Insert, Modeling, View, and Help. The ribbon below the menu has sections for Home, Data, Queries, Insert, Calculations, and Share. On the far right, there is a user profile for 'Yong Liu' and a dark mode switch.

The main workspace contains several components:

- Navigator Dialog:** A central window titled "Navigator" displays the structure of the "classicmodels.products" table. It lists columns: productCode, productName, productLine, and productCategory. The table contains 43 rows of data, such as S10_1678 (1959 Harley Davidson Ultimate Chopper) and S10_1749 (1952 Alpine Renault 1300). At the bottom of the table view are "Select Related Tables", "Load", "Transform Data", and "Cancel" buttons.
- Visualizations Panel:** Located on the right side, this panel shows a grid of visualization icons. Below the icons are sections for "Filters", "Values", "Add data fields here", "Drill through", "Cross-report", "Keep all filters", and "Add drill-through fields here".
- Fields Panel:** Another panel on the right lists fields from the "classicmodels.products" table, including productCode, productName, productLine, and productCategory. There are checkboxes next to each field name, with "productName" checked. A search bar at the top of this panel says "Search payments in CSV".

At the bottom of the screen, the Windows taskbar is visible with various pinned icons like File Explorer, Edge, and Mail. The system tray shows the date and time as 11:04 31/12/2020.

productCode	productName	productLine	productCategory
S10_1678	1959 Harley Davidson Ultimate Chopper	Motorcycles	1:1
S10_1949	1952 Alpine Renault 1300	Classic Cars	1:1
S10_2016	1996 Moto Guzzi 1100K	Motorcycles	1:1
S10_4698	2003 Harley-Davidson Eagle Drag Bike	Motorcycles	1:1
S10_4757	1972 Alfa Romeo GTA	Classic Cars	1:1
S10_4962	1962 LanciaA Delta 16V	Classic Cars	1:1
S12_1099	1968 Ford Mustang	Classic Cars	1:1
S12_1308	2001 Ferrari Enzo	Classic Cars	1:1
S12_1666	1958 Setra Bus	Trucks and Buses	1:1
S12_2823	2002 Suzuki KREO	Motorcycles	1:1
S12_3148	1969 Conair Monza	Classic Cars	1:1
S12_3380	1968 Dodge Charger	Classic Cars	1:1
S12_3891	1969 Ford Falcon	Classic Cars	1:1
S12_3990	1970 Plymouth Hemi Cuda	Classic Cars	1:1
S12_4473	1957 Chevy Pickup	Trucks and Buses	1:1
S12_4675	1969 Dodge Charger	Classic Cars	1:1
S1B_1097	1940 Ford Pickup Truck	Trucks and Buses	1:1
S1B_1129	1993 Manda RX-7	Classic Cars	1:1
S1B_1342	1937 Lincoln Berline	Vintage Cars	1:1
S1B_1367	1936 Mercedes-Benz 500K Special Roadster	Vintage Cars	1:1
S1B_1589	1965 Aston Martin DB5	Classic Cars	1:1
S1B_1662	1980s Black Hawk Helicopter	Planes	1:1
S1B_1719	1917 Grand Touring Sedan	Vintage Cars	1:1

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Yong Liu

File Home Insert Modeling View Help

Power Copy Cut Paste Format painter Date Excel Power BI SQL Server Enter recent sources Data

Queries

There are pending changes in your queries that haven't been applied.

Queries [4]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products

Remove Columns

LastName	abc_contactFirstName	abc_phone	abc_addressLine2	abc_city	abc_state
Carrie	40322555	8489 String St.		Nantes	
Inn	7025551868	636 St Kilda Road	Level 3	Las Vegas	NV
Peter	03 9520 4555	67, rue des Cinqante Otages		Melbourne	Victoria
Janine	40-67-8555	Erling Skakkes gate 7B		Nantes	
Jonas	07-98-9555	5677 Strong St.		Stavem	
Susan	4155551450	ul. Tiltrowa 88		San Rafael	CA
Vicz	(26) 642-7555	+49 69 66 90 2555		Warszawa	
Roland		Lyonerstr. 34		Frankfurt	
Julie	6505555787	5557 North Pendale Street		San Francisco	CA
Kwai	2125557818	897 Long Airport Avenue		NYC	NY
Diego	(91) 555-94-44	C/ Moralzarzal, 86		Madrid	
Christina	0921-12-3555	Bergusvägen 8		Luleå	
Jytte	31 12 3555	Vinbelhet 34		Kopenhagen	
Mary	78.32.5555	2, rue du Commerce		Lyon	
Eric	465 221 7555	Bronz Sok.	Bronz Apt. 3/6 Tesviklyke	Singapore	
Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY
Kelvin	2155551555	2586 Pompton St.		Allentown	PA
Juri	6505556809	9408 Furth Circle		Burlingame	CA
Wendy	465 224 1555	106 Linden Road Sandown	2nd Floor	Singapore	
Vessel	147 2267 3215	Brehm St. 121	PH 334 Sentrum	Bergen	
Keith	2035557845	149 Spinaker Dr.	Suite 101	New Haven	CT
Isabel	(1) 356-5555	Estrada da saúde n. 58		Lisboa	
Martine	20.16.1555	184, chaussée de Tournai		Lille	
Marie	(1) 47-34-2555	265, boulevard Charonne		Paris	
Jerry	6175555555	4658 Baden Av.		Cambridge	MA
Jolie	2035552570	25593 South Bay Ln.		Bridgewater	CT
Mory	181 06 6347 5555	1-6-20 Ojima		Kita ku	Osaka
Michael	2125551500	2671 Kingston Rd.	Suite 701	NYC	NY
Matti	90-224 8555	Keskuskatu 45		Helsinki	
Rachel	(171) 555-1555	Faunderoy Circus		Manchester	
Deon	1358 1867 1555	25 Maldin Lane	House No. 4	Dublin	
Leslie	6175556478	16/80 Pompton St.		Hickhaven	MA

16 COLUMNS, 122 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 10:27

Visualizations

Fields

Search payments in CSV

- amount
- checkNum...
- customerN...
- paymentDate

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

11:04
31/12/2020

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Clipboard Copy Paste Data Power BI SQL Server Enter data Recent sources

Upload

There are pending changes in your queries that haven't been applied.

Queries [4]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products

addressLine1

state postalCode

Query Settings

- PROPERTIES Name classicmodels customers All Properties
- APPLIED STEPS Source Navigation Removed Columns

Visualizations Fields

Search payments in CSV amount checkNum... customerN... paymentDate

Filters

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

15 COLUMNS, 122 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 10/27

11:05 31/10/2020

Untitled - Power BI Desktop

Yong Liu

File Insert Modeling View Help

Paste Copy Cut Paste Power BI Data Sources Recent sources

Upload Get data Get data Power BI Data Sources Data Transform Refresh Queries

Queries [4]

payments in CSV

classicmodels customers

classicmodels orders

classicmodels products

customerNumber paymentDate amount

103 HD336386 19/10/2004 12.00

103 IM555105 05/06/2003 12.00

103 OM314933 18/12/2004 12.00

112 BO864823 17/12/2004 12.00

112 HQ550022 06/06/2003 12.00

112 ND3748579 20/08/2004 12.00

112 GG31455 20/05/2003 12.00

112 MA765515 15/12/2004 12.00

114 NP603840 31/03/2003 12.00

114 NR27552 10/03/2004 12.00

119 DB933704 14/11/2004 12.00

119 LN575447 08/08/2004 12.00

119 NG94694 22/02/2005 12.00

121 DB889831 16/02/2003 12.00

121 FD317790 28/10/2003 12.00

121 KB831359 04/11/2004 12.00

121 MA302151 26/11/2004 12.00

124 AE215433 05/03/2005 12.00

124 BG252409 28/08/2004 12.00

124 CO287967 13/04/2003 12.00

124 ET64396 16/04/2005 12.00

124 HJ366474 27/12/2004 12.00

124 HR86578 02/11/2004 12.00

124 KI33716 15/08/2003 12.00

124 LF217299 26/03/2004 12.00

124 NT141748 25/11/2003 12.00

128 01025118 28/01/2003 12.00

128 FA461482 18/10/2003 12.00

128 FI1668230 24/03/2004 12.00

128 IP383901 18/11/2004 12.00

129 IM006140 08/11/2004 12.00

129 ID449593 11/12/2004 12.00

129 PH32991 09/04/2001 12.00

4 COLUMNS, 2/3 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:01

Close & Apply Close New Rename Enter Date Data source settings Manage Parameters Refresh Advanced Editor Properties Choose Remove Columns Manage Columns Keep Remove Rows Reduce Rows Sort Split Column Group By Replace Values Merge Queries Append Queries Combine All Insights

Query Settings

Properties Name payments in CSV All Properties

Applied Steps Source Promoted Headers Changed Type

Values Add data fields here

Drill through Cross-report Off Keep all filters On Add drill-through fields here

Visualizations Fields

Search payments in CSV amount customerNumber paymentDate

Fields

Page 1

11:05 31/12/2020

Untitled - Power BI Desktop

Yong Wu

File Home Insert Modeling View Help

Power Query Editor

Queries [4]

payments in CSV

classicmodels customers

classicmodels orders

classicmodels products

customerNumber checkNumber paymentDate revenue

	customerNumber	checkNumber	paymentDate	revenue
1	T03	H0336386	19/10/2004	6066.78
2	T03	IM555205	05/06/2004	14571.44
3	I03	OM314933	18/12/2004	1876.14
4	I12	B0864823	17/12/2004	14191.12
5	I12	H055022	06/06/2004	32641.98
6	I12	ND748579	20/08/2004	33347.88
7	I14	GG31455	20/05/2003	45864.03
8	I14	MA765515	15/12/2004	82261.22
9	I14	NP603840	31/05/2003	7565.08
10	I14	NR27552	10/03/2004	44894.74
11	I19	0B933704	14/11/2004	19501.82
12	I19	LN373447	08/08/2004	47924.19
13	I19	NG94694	22/02/2005	49523.67
14	I21	DR889831	16/03/2003	5028.95
15	I21	FD317790	28/10/2003	1491.38
16	I21	IR831359	04/11/2004	17876.32
17	I21	MA302151	28/11/2004	34638.14
18	I24	AE215433	05/03/2005	101244.59
19	I24	BS725406	28/08/2004	85410.87
20	I24	CQ287967	11/04/2003	11044.3
21	I24	ET64396	16/04/2005	83588.04
22	I24	HI366474	27/12/2004	47142.7
23	I24	HR86578	02/11/2004	55839.66
24	I24	IR133716	15/08/2003	111654.4
25	I24	LF217299	26/01/2004	43369.3
26	I24	NT1411748	25/11/2003	45084.38
27	I28	DP925118	28/01/2003	10549.01
28	I28	FA465482	18/10/2003	24101.81
29	I28	TI1668230	24/03/2004	33820.62
30	I28	IP383901	18/11/2004	7166.32
31	I29	DM806140	08/11/2004	26748.78
32	I29	IR449698	11/12/2003	29924.98
33	I29	PM3291	09/04/2001	36532.85

4 COLUMNS, 273 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:05

Visualizations

Fields

Search

payments in CSV

amount

customerNumber

checkNumber

paymentDate

revenue

Query Settings

Properties

Name: payments in CSV

All Properties

Applied Steps

Renamed Columns

Source

Promoted Headers

Changed Type

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Page 1 of 1

Windows Taskbar

11:05 31/12/2020

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Power Copy External sources Data Clipboards Recent sources

transform Refresh data Queries

Power BI Desktop

Untitled Power Query Editor

File Home Transform Add Column View Tools Help

Column From Examples Columns Invoke Custom Function Conditional Column Index Column Merge Columns XO Statistics Standard Scientific Date Time Duration Text Analytics Vision Azure Machine Learning

From Int From Number From Date & Time AI Insights

Queries A Custom Column Description 1.2 quantityInStock 1.2 buyPrice 1.2 MSRP classmodel.orderdetails class

1 payment Create a new column in this table, based on a custom formula. 2 amabile front wheels; steering function; detailed interior; detailed exterior; 3 Official Moto Guzzi logos and insignias; saddle bags located on side of ... 4 model features; official Harley Davidson logos and insignias; detachable ... 5 features include: Turnable front wheels; steering function; detailed int... 6 features include: Turnable front wheels; steering function; detailed int... 7 pod; doors and trunk all open to reveal highly detailed interior feature... 8 amabile front wheels; steering function; detailed interior; detailed ext... 9 model features 30 windows, skylights & glare resistant glass; working ... 10 Official logos and insignias; saddle bags located on side of motorcycle; ... 11 15 scale die-cast about 10" long doors open, hood opens, trunk ope... 6906 89.14 151.08 Table 12 12 scale model of a 1968 Dodge Charger. Hood, doors and trunk all o... 9123 75.16 117.44 Table 13 amabile front wheels; steering function; detailed interior; detailed ext... 1049 83.05 173.02 Table 14 very detailed 1970 Plymouth Cuda model in 1:12 scale. The Cuda is ge... 5663 31.92 79.8 Table 15 12 scale die-cast about 20" long Hood opens, Rubber wheels 8125 55.7 118.5 Table 16 detailed model of the 1969 Dodge Charger. This model includes finely ... 7223 58.73 115.16 Table 17 this model features soft rubber tires, working steering, rubber mud gu... 2613 58.33 216.67 Table 18 this model features; opening hood, opening doors, detailed engine, re... 3975 83.51 141.54 Table 19 features opening engine cover, doors, trunk, and fuel filler cap. Color... 8693 60.62 302.74 Table 20 this 1:18 scale replica is constructed of heavy die-cast metal and has ... 8635 24.26 53.81 Table 21 e-cast model of the silver 1985 Aston Martin DB5 in silver. This mod... 9042 65.96 224.44 Table 22 18 scale replica of actual Army's UH-60 BLACK HAWK Helicopter. 10... 5330 77.27 157.69 Table 23 this 1:18 scale replica of the 1917 Grand Touring car has all the featur... 2724 86.7 170 Table 24 this precision die-cast replica features opening doors, superb detail an... 8826 53.9 77 Table 25 this model features; opening hood, opening doors, detailed engine, re... 9772 93.89 242.25 Table 26 amabile front wheels; steering function; detailed interior; detailed ext... 4724 101.51 163.73 Table 27 features opening hood, opening doors, opening trunk, wide white wall... 1540 33.3 60.54 Table 28 exact replica, 100+ parts, working steering system, original logos 8258 74.86 122.73 Table 29 this model features grille-mounted chrome horn, lift-up louvered hood, ... 9351 58.48 127.13 Table 30 leaning red handsome appearance. Everything is here the fire hoses,... 2018 24.92 60.77 Table 31 no retractable wheels and comes with a stand 992 49 184.48 Table

Query Settings

Properties Name classmodel.products All Properties

Applied Steps Source Navigation

Visualizations

Filters

Search payments in CSV

amount

customerName

paymentDate

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

11 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 10:27

Untitled - Power BI Desktop

File Home Insert Modeling View Help

Power BI Desktop

Queries [4]

payments in CSV
classicmodels customers
classicmodels orders
classicmodels products

Custom Column

Add a column that is computed from the other columns.

New column name: Profit

Custom column formula: $= [\text{MSRP}] - [\text{buyPrice}]$

Available columns:

- productCategory
- productVendor
- productDescription
- quantityInStock
- buyPrice
- MSRP
- classicmodels.orderdetails
- classicmodels.products

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

11 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 1027

Yong Yu

Visualizations Fields

payments in CSV

- amount
- checkNum...
- customerN...
- paymentDate

Add data fields here

Drill through

Cross-report

Off On

Keep all filters

Add drill-through fields here

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Home Data

Transform Refresh

Queries

File Home Transform Add Column View Tools Help

Column Prism Custom Invoke Custom Function

Conditional Column Index Column Merge Columns

Format Extract

Trigonometry Statistics Standard Scientific Information

Date Time Duration

Lead Analytics

Vision Azure Machine Learning

AI Insights

There are pending changes in your queries that haven't been applied.

Queries [4]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products

	1.2 quantityInStock	1.2 buyPrice	1.2 MSRP	2. classicomodels.orderdetails	3. classicomodels.products	4. Profit
1	2933	48.81	85.7	Table	Value	46.89
2	7205	98.58	214.3	Table	Value	115.72
3	6625	68.99	118.94	Table	Value	49.95
4	1...	5582	91.02	193.66	Table	102.64
5	...	3252	85.68	1.26	Table	50.32
6	...	6791	103.42	147.74	Table	44.32
7	...	68	95.34	194.57	Table	99.23
8	...	3619	95.59	207.8	Table	112.22
9	...	1579	77.9	136.67	Table	58.77
10	...	9997	66.27	150.62	Table	84.35
11	...	6908	89.14	151.08	Table	61.94
12	...	9123	75.16	117.44	Table	42.28
13	...	1049	83.05	173.02	Table	89.97
14	...	5663	31.92	79.8	Table	47.88
15	...	6125	55.7	118.5	Table	62.8
16	...	7223	58.73	115.16	Table	56.42
17	...	2613	58.33	116.67	Table	58.34
18	...	3973	83.53	141.54	Table	58.03
19	...	8693	60.62	102.74	Table	42.12
20	...	8635	24.26	53.91	Table	29.65
21	...	9042	65.96	124.44	Table	58.48
22	...	5330	77.27	157.69	Table	80.42
23	...	2724	86.7	170	Table	88.8
24	...	8826	53.9	77	Table	23.1
25	...	9772	93.89	142.25	Table	49.36
26	...	4724	101.51	161.73	Table	60.22
27	...	540	33.8	60.54	Table	27.24
28	...	8258	74.86	122.73	Table	47.87
29	...	9354	58.48	127.13	Table	68.65
30	...	2018	24.92	60.77	Table	35.85
31	...	997	49	84.48	Table	35.48

12 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11/9/2020

Visualizations Fields

Search payments in CSV

- amount
- checkNum...
- customerN...
- paymentData

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

11/9/2020

Untitled - Power BI Desktop

Yong Lu

File Home Insert Modeling View Help

Power Copy External partner Data

Clipboard

There are pending changes in your queries that haven't been applied.

Power BI Desktop

File Home Transform Add Column View Tools Help

Queries [4]

payments in CSV
classicmodels customers
classicmodels orders
classicmodels products

Custom Column

Add a column that is computed from the other columns.

New column name: total_expected_profit

Custom column formula: = [Profit]*[quantityInStock]

Available columns:

- productDescription
- productID
- quantityInStock
- buyPrice
- MSRP
- classicmodels.orderdetails
- classicmodels.productlines
- Profit

Learn about Power Query formulas

✓ No syntax errors have been detected.

OK Cancel

12 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:07

Visualizations Fields

Filters

Search

payments in CSV

amount

checkNum

customerNum

paymentDate

Values

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Queries [4]

payments in CSV
classicmodels customers
classicmodels orders
classicmodels products

1.2 buyPrice 1.2 MSRP classicmodels.orderdetails classicmodels.products Profit total_expected_profit

	1.2 buyPrice	1.2 MSRP	classicmodels.orderdetails	classicmodels.products	Profit	total_expected_profit
1	48.87	95.7	Table	Value	46.89	3719.0837
2	98.58	214.3	Table	Value	115.77	845.3866
3	68.99	118.94	Table	Value	49.95	330918.75
4	91.02	193.66	Table	Value	102.64	572936.48
5	85.68	136	Table	Value	50.32	163640.64
6	103.42	247.74	Table	Value	44.32	300977.12
7	95.34	194.57	Table	Value	99.23	8747.64
8	95.59	207.8	Table	Value	112.21	4066087.99
9	77.9	136.67	Table	Value	58.77	92797.83
10	66.27	150.62	Table	Value	84.35	843246.95
11	89.14	151.08	Table	Value	61.94	427757.64
12	75.16	117.44	Table	Value	42.28	385720.44
13	83.05	173.02	Table	Value	89.97	94378.53
14	31.92	79.8	Table	Value	47.88	271344.44
15	55.7	118.5	Table	Value	62.8	384650
16	58.73	115.16	Table	Value	56.42	413236.89
17	58.33	116.67	Table	Value	58.34	152442.42
18	83.51	141.54	Table	Value	58.03	230669.25
19	60.62	102.74	Table	Value	42.12	360149.16
20	24.26	53.91	Table	Value	29.65	258627.75
21	65.96	124.44	Table	Value	58.48	528776.16
22	77.77	157.69	Table	Value	80.47	428638.6
23	86.7	170	Table	Value	83.3	226909.2
24	53.9	77	Table	Value	23.1	203880.6
25	93.89	142.25	Table	Value	48.36	472573.92
26	101.51	163.73	Table	Value	62.27	704927.28
27	38.3	68.54	Table	Value	27.24	14705.6
28	71.85	122.73	Table	Value	47.87	385310.46
29	58.48	127.13	Table	Value	68.65	642152.1
30	24.92	60.77	Table	Value	35.85	72445.3
31	49	84.48	Table	Value	35.48	35196.76

13 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11/9/2020

Visualizations Fields

Filters

Search

payments in CSV

- amount
- checkNum...
- customerN...
- paymentDate

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Windows Taskbar

11/9/2020

Untitled - Power BI Desktop

Yong Lu

File Home Insert Modeling View Help

Clipboard Copy External sources Open

Get data Excel Power BI SQL Server Enter data Recent sources

Transform Refresh data Queries

Power BI Desktop

Power Query Editor

File Home Transform Add Column View Tools Help

Close Apply New Recent Enter Data Properties Advanced Editor Refresh Manage Preview Manage Columns Remove Columns Keep Rows Remove Rows Group By Replace Values Sort Split Column Combine All Insights

Queries

Close & Apply Close the Query Editor window and apply any pending changes.

classicmodels customers

classicmodels orders

classicmodels products

1.2 buyPrice 1.2 MSRP 1.2 classimodels.orderdetails 1.2 classimodels.products 1.2 Profit 1.2 total_expected_profit

	buyPrice	MSRP	orderdetails	products	Profit	total_expected_profit
1	48.81	95.71	Table	Value	46.89	371978.37
2	98.58	214.3	Table	Value	115.77	845334.6
3	68.99	118.94	Table	Value	49.95	330918.75
4	92.02	293.66	Table	Value	102.64	572935.48
5	85.68	1.86	Table	Value	50.32	163640.54
6	103.42	147.74	Table	Value	44.32	300977.12
7	95.34	294.57	Table	Value	99.23	6747.64
8	95.59	207.8	Table	Value	112.21	406607.99
9	77.9	136.67	Table	Value	58.77	92797.83
10	66.27	150.62	Table	Value	84.35	843246.95
11	89.14	151.08	Table	Value	61.94	427757.64
12	75.16	117.44	Table	Value	42.28	385720.44
13	83.05	173.02	Table	Value	89.97	94378.53
14	31.92	79.8	Table	Value	47.88	271344.44
15	55.7	118.5	Table	Value	62.8	384650
16	58.73	115.16	Table	Value	56.43	413236.89
17	58.33	216.67	Table	Value	58.34	152442.42
18	83.51	141.54	Table	Value	58.03	230669.23
19	60.62	102.74	Table	Value	42.12	366149.16
20	24.26	53.91	Table	Value	29.65	258027.75
21	65.96	124.44	Table	Value	58.48	528776.16
22	77.27	157.69	Table	Value	80.42	478638.6
23	86.7	370	Table	Value	83.3	276009.2
24	53.9	77	Table	Value	23.1	203880.6
25	93.89	142.25	Table	Value	48.26	472573.92
26	101.51	163.73	Table	Value	62.22	293977.28
27	33.3	60.94	Table	Value	27.24	14705.6
28	74.86	122.73	Table	Value	47.87	28510.46
29	58.48	127.13	Table	Value	68.65	642152.1
30	24.92	60.77	Table	Value	35.85	72345.8
31	49	84.48	Table	Value	35.48	35196.10

13 COLUMNS, 110 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:07

Visualizations Fields

payments in CSV

amount

checkNum...

customerN...

paymentData

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Page 1 of 1

Windows Taskbar

11:08 31/12/2023

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Get data Data Queries Insert Calculators Share

Transform Refresh data New visual Text box More visuals

Power BI Dataflows Server Recent data sources

Format painter Options

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Visualizations Fields

Search

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Home

Insert

Modeling

View

Help

Queries

Transform Refresh data

New visual

Bind box

More visuals

New measure

Quick measure

Calculations

Share

Power BI datasets

Excel

Power BI datasets

Power BI dataflows

SQL Server

Analysis Services

Text/CSV

Web

OData feed

Blank query

Power BI Template Apps

More...

Common data sources

Connect to data from multiple sources.

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Visualizations

Fields

Search

classicmodels cus...

classicmodels ord...

classicmodels pro...

payments in CSV

checkNum...

customerN...

paymentDate

revenue

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

11:09 01/12/2020

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Cut Copy Paste Cell data Power BI Data Refresh data Recent sources Transform data New visual Insert More visuals New measure Quick measure Share Publish

Clipboard

Get data Power BI Data Sources Enter data Refresh data Queries New visual Insert More visuals New measure Quick measure Calculations Share

Build Select or drag fields

Get Data

Search All

- All
- Excel
- Text/CSV
- XML
- JSON
- Folder
- PDF
- Parquet
- SharePoint folder
- SQL Server database
- Access database
- SQL Server Analysis Services database
- Oracle database
- IBM Db2 database
- IBM Informix database (Beta)
- IBM Netezza
- MySQL database

Certified Connectors | Template Apps

Open Cancel

Visualizations Fields

Filters

Search

values

Add data fields here

Drill through

Cross-report

Off On

Keep all filters

Add drill-through fields here

Page 1

Page 1 of 1

11:09 31/12/2020

The screenshot shows the Microsoft Power BI Desktop application. The main area displays a 'Build' workspace with a placeholder text 'Select or drag fields'. A 'Get Data' dialog box is open in the center, listing various data sources. The 'JSON' source is currently selected. To the right of the workspace, there are two panes: 'Visualizations' and 'Fields'. The 'Visualizations' pane contains a grid of visualization icons. The 'Fields' pane shows a hierarchical structure of data fields for three datasets: 'classicmodels', 'payments', and 'revenue'. The 'classicmodels' dataset has nodes for 'customers' (customerNumber), 'employees' (employeeNumber), and 'payments' (paymentDate). The 'payments' dataset has nodes for 'checkNumber', 'customerNumber', and 'revenue'. The 'revenue' dataset has a single node for 'revenue'. At the bottom of the screen, the Windows taskbar is visible with various pinned icons and the system clock showing 11:09 on 31/12/2020.

Untitled - Power BI Desktop

Yong Liu

Open

Search Power BI

Organize + New folder

Documents Name Date modified Type Size

This PC Sample.json file Expense.json 19/12/2020 13:40 JSON File

Share Publish

Build visuals with your data

select or drag fields from the Fields pane onto the report canvas.

File name: Open Cancel

JSON Files (*.json)

Visualizations Fields

Filters

Search

classicmodels.cus...
classicmodels.ord...
classicmodels.pro...
payments in CSV
checkNum...
customerN...
paymentDate
revenue

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

Page 1 of 1

11:09 31/12/2020

Untitled - Power Desktop

Yong Liu

File Home Insert Modeling View Help

Clipboard Data

Get data Power BI SGB Enter Recent data sources

Transform Refresh Queries

File Home Transform Add Column View Tools Help Untitled - Power Query Editor

Queries

Convert To Table List Record 2 Record 3 Record

Convert this list into a table.

payments in CSV

classicmodels customers

classicmodels orders

classicmodels products

Sample json file - Expense

Keep Remove Items * Manage Items Sort Numeric list

Query Settings

Properties Name Sample json file - Expense All Properties

Applied Steps Source

Visualizations Fields

Search

Filters

Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

3 ITEMS PREVIEW DOWNLOADED AT 11:39

Page 1

The screenshot shows the Microsoft Power Query Editor window. The title bar reads "Untitled - Power Query Editor". The ribbon tabs include File, Home, Transform, Add Column, View, Tools, and Help. The "Home" tab is selected. The main area displays a list of items from a JSON file, with a context menu open over the third item. The menu options are "Convert To Table", "List", "Record 2", and "Record 3". Below the list, there are buttons for "Keep", "Remove", "Items *", "Manage Items", "Sort", and "Numeric list". On the right side, there are sections for "Query Settings" (Properties and Applied Steps), "Visualizations", and "Fields". The "Fields" section lists various tables and columns from the "classicmodels" database, such as "classicmodels.customers", "classicmodels.orders", "classicmodels.products", and "payments in CSV". A preview at the bottom shows "3 ITEMS" and was "PREVIEW DOWNLOADED AT 11:39". The status bar at the bottom indicates "Page 1" and shows the Windows taskbar with various pinned icons.

Untitled - Power BI Desktop

Yong Liu

File Home Insert Modeling View Help

Power Query Editor

Untitled - Power Query Editor

Queries [5]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products
- Sample json file - Expense

To Table

Create a table from a list of values.

Select or enter delimiter:

None

How to handle extra columns:

Show as errors

Source

Query Settings

Properties

Name: Sample json file - Expense

All Properties

Applied Steps

Source

Visualizations

Fields

Search

classicmodels cus...

classicmodels ord...

classicmodels pro...

payments in CSV

checkNum...

customerN...

paymentDate

revenue

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

Page 1

3 ITEMS

PREVIEW DOWNLOADED AT 11:09

Windows Taskbar

Untitled - Power BI Desktop

Yong Lu

File Home Insert Modeling View Help

Home

Insert

Modeling

View

Help

Queries

Transform Refresh

Data

Close & Apply

New

Recent

Filter

Data source settings

Manage

Properties

Advanced Editor

Refresh

Preview

Manage

Choose Columns

Remove Columns

Keep Rows

Remove Rows

Sort

Split Column

Group By

Replace Values

Merge Queries

Append Queries

Combine Files

Test Analytics

Vision

Azure Machine Learning

Changes

Visualizations

Fields

Search

(Select All Columns)

WHO

WEEK

Use original column name as prefix

List may be incomplete.

Load more

Converted to Table

1 COLUMN, 3 ROWS Column profiling based on top 1000 rows

Page 1

Page 1 of 1

Untitled - Power BI Desktop

Yong Lu

File Home Insert Modeling View Help

Cut Copy Paste Power BI datasets Server Data Recent data sources

External source Clipboard

There are pending changes in your queries that haven't been applied.

Power Query Editor

File Home Transform Add Column View Tools Help

New Recent Enter Data Data Sources Parameters Refresh Advanced Editor

Properties Manage Preview Manage Columns Remove Rows Sort Group By Split Column Replace Values Merge Queries Append Queries Combine All Insights

Queries [5]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products
- Sample json file - Expense

Column1.WEEK

1. Jon
2. Beth
3. Janet

Expand to New Rows Extract Values...

Query Settings

PROPERTIES

- Name: Sample.json file - Expense
- All Properties

APPLIED STEPS

- Source
- Converted to Table
- Expanded Column1

Changes Visualizations Fields

Search

classicmodels cust... classicmodels ord... classicmodels pro... payments in CSV

Values

Add data fields here

Drill through

Cross-report

Off

Keep all filters

On

Add drill-through fields here

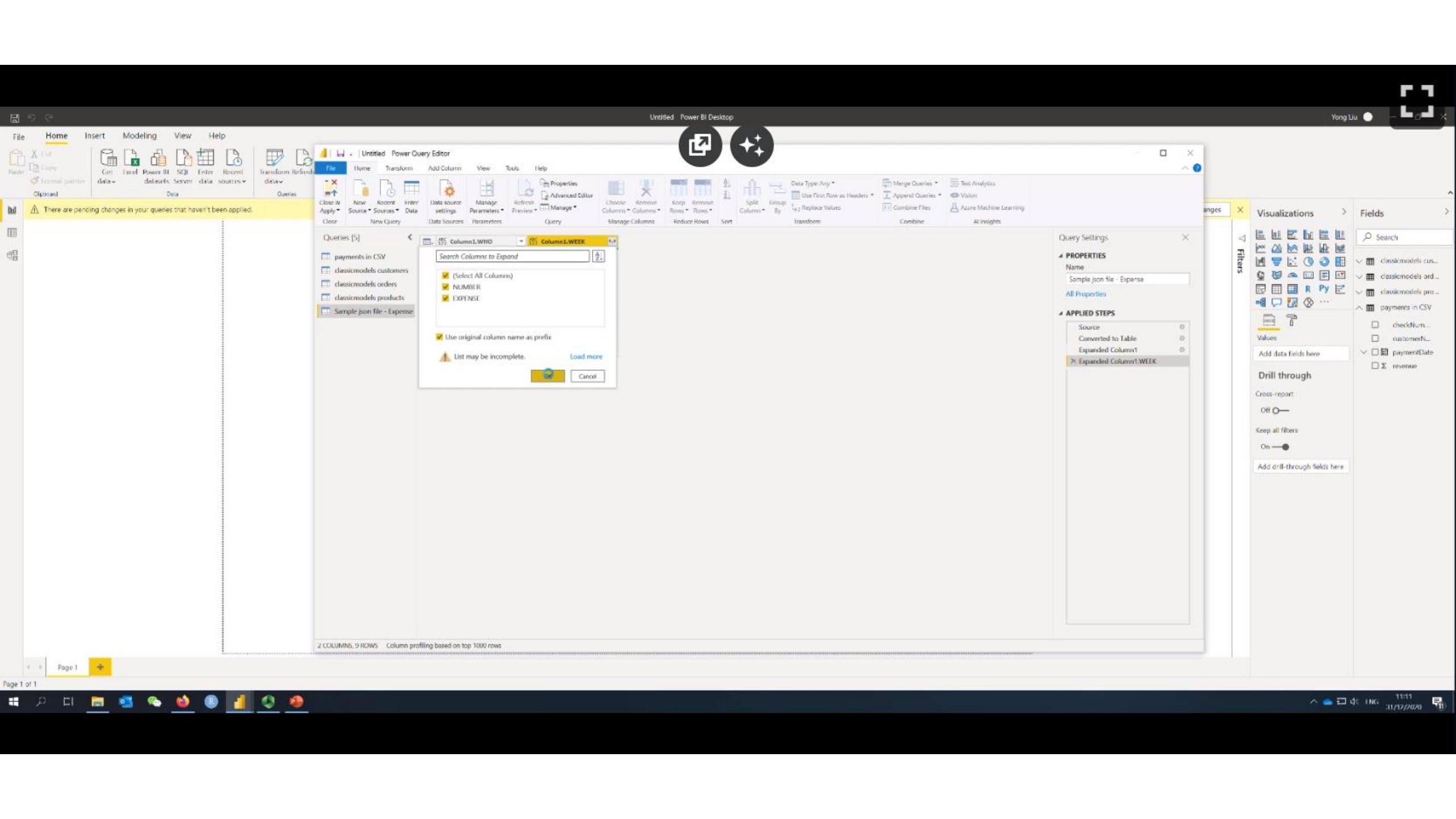
2 COLUMNS, 3 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:10

Page 1

Page 1 of 1

11:10 11/12/2018



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Clipboard

Get Data Power BI Refresh data Recent sources

Queries

There are pending changes in your queries that haven't been applied.

Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply Close New Recent Enter Data source settings Parameters Refresh Advanced Editor

Choose Columns Remove Rows Group By Sort

Data Type: Any Use First Row as Headers Merge Queries Append Queries Text Analytics Vision Azure Machine Learning

Transform Combine All Insights

Queries [5]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products
- Sample.json file - Expense

Column1.WHO Column1.WEEK.NUMBER Column1.WEEK.EXPENSE

1	Jan	100
2	Jan	100
3	Joe	100
4	Beth	100
5	Beth	100
6	Janet	100
7	Janet	100
8	Janet	100
9	Janet	100

Expand To New Rows Edit Values...

Query Settings

Properties Name Sample.json file - Expense All Properties

Applied Steps

- Source
- Converted to Table
- Expanded Column1
- Expanded Column1.WEEK

Expanded Column1.WEEK

3 COLUMNS, 9 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 11:11

Visualizations Fields

Filters

Search

Values

Add data fields here

Drill through

Cross-report

Off On

Keep all filters

On

Add drill-through fields here

Page 1

11:11 31/12/2020

Windows Taskbar icons

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File Home Insert Modeling View Help

Clipboard

There are pending changes in your queries that haven't been applied.

Power Query Editor

Queries [5]

- payments in CSV
- classicmodels customers
- classicmodels orders
- classicmodels products
- Sample json file - Expense

Column1.WHO Column1.WEEK.NUMBERS Column1.WEEK.EXPENSE

Column1.WHO	Column1.WEEK.NUMBERS	Column1.WEEK.EXPENSE
1 Joe	3 Record	
2 Joe	3 Record	
3 Joe	3 Record	
4 Joe	3 Record	
5 Joe	4 Record	
6 Joe	4 Record	
7 Joe	4 Record	
8 Joe	4 Record	
9 Joe	4 Record	
10 Joe	5 Record	
11 Joe	5 Record	
12 Seth	3 Record	
13 Seth	4 Record	
14 Seth	4 Record	
15 Seth	5 Record	
16 Seth	5 Record	
17 Janet	3 Record	
18 Janet	3 Record	
19 Janet	3 Record	
20 Janet	4 Record	
21 Janet	5 Record	
22 Janet	5 Record	
23 Janet	5 Record	
24 Janet	5 Record	

Query Settings

Properties

Name: Sample.json file - Expense

All Properties

Applied Steps

Source: Converted to Table: Expanded Column1.WEEK: Expanded Column1.WEEK1: Expanded Column1.WEEKEXPENSE

Values

Add data fields here

Drill through

Cross-report: Off

Keep all filters

On

Add drill-through fields here

Visualizations

Fields

Search

classicmodels cus... classicmodels ord... classicmodels pro... payments in CSV

checkNum... customerN... paymentDate revenue

Page 1

3 COLUMNS, 24 ROWS - Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:11

11:11 31/12/2020

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File Home Insert Modeling View Help

Queries [5]

Column1.WHO

payments in CSV

classicmodels customers

classicmodels orders

classicmodels products

Sample json file - Expense

Column1.WEEK.NUMBER

Column1.WEEK.EXPENSE

1. Joe

2. Joe

3. Joe

4. Joe

5. Joe

6. Joe

7. Joe

8. Joe

9. Joe

10. Joe

11. Joe

12. Beth

13. Beth

14. Beth

15. Beth

16. Beth

17. Janet

18. Janet

19. Janet

20. Janet

21. Janet

22. Janet

23. Janet

24. Janet

(Select All Columns)

WHALE

AMOUNT

Use original column name as prefix

List may be incomplete.

Load more

Cancel

3 COLUMNS, 24 ROWS - Column profiling based on top 1000 rows

File Home Transform Add Column View Tools Help

New Recent Data Sources Parameters

Properties Advanced Editor Refresh Manage Preview

Choose Columns Remove Rows Group By Split Column

Data Type: Any Use First Row as Headers Merge Queries Append Queries Combine Files Text Analytics Vision Azure Machine Learning

Transform Combine All Insights

Changes Visualizations Fields

Properties Name Sample.json file - Expense All Properties

Applied Steps Source Converted to Table Expanded Column1 Expanded Column1.WEEK Expanded Column1.WEEK EXPENSE

Values Add data fields here

Drill through Cross-report Off Keep all filters On Add drill-through fields here

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File Home Insert Modeling View Help

Clipboard

Get data ▾

- Get data
- Excel
- Power BI
- SSB
- Enter data
- Recent sources

Data

Transform Refresh data

Queries

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close Apply Source Sources Data Data source settings Manage Parameters Refresh Advanced Editor Properties Preview Manage Query

Choose Columns Remove Columns Keep Rows Remove Rows Split Columns Group By I_2 Replace Values Data Type: Any ▾ Merge Queries Append Queries Test Analytics Vision Azure Machine Learning

Column1.WHO Column1.WEEK.NUMBER Column1.WEEK.EXPENSE.WEEKLY Column1.WEEK.EXPENSE.AMOUNT

	Column1.WHO	Column1.WEEK.NUMBER	Column1.WEEK.EXPENSE.WEEKLY	Column1.WEEK.EXPENSE.AMOUNT
1	Joe	3	Beer	18
2	Joe	3	Food	17
3	Joe	3	Food	19
4	Joe	3	Car	20
5	Joe	4	Beer	19
6	Joe	4	Beer	16
7	Joe	4	Food	17
8	Joe	4	Food	17
9	Joe	4	Beer	14
10	Joe	5	Beer	14
11	Joe	5	Food	12
12	Beth	3	Beer	16
13	Beth	4	Food	17
14	Beth	4	Beer	15
15	Beth	5	Food	12
16	Beth	5	Beer	20
17	Janet	3	Car	19
18	Janet	3	Food	18
19	Janet	3	Beer	18
20	Janet	4	Car	17
21	Janet	5	Beer	14
22	Janet	5	Car	12
23	Janet	5	Beer	19
24	Janet	5	Food	12

Query Settings

Properties Name Sample.json file - Expense All Properties

Applied Steps

Source Converted to Table Expanded Column1¹ Expanded Column1.WEEK1 Expanded Column1.WEEKEXP... Expanded Column1.WEEKEXP...

Changes Visualizations Fields

Filter Values Add data fields here

Drill through

Cross-report Off

Keep all filters On

Add drill-through fields here

Page 1

4 COLUMNS, 24 ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 11:11

Page 1 of 1

Windows Taskbar icons

11:11 31/12/2020

Untitled Desktop

Yong Lu

File Home Insert Modeling View Help

Cut Copy Paste Data Get data from Power BI, SQL Server, Enter data from sources... Transform refresh data New visual Insert New measure New quick measure Publish

Queries Data Insert Calculations Share

Visualizations Fields

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Sample json file - Expense

Name: Sample json file - Expense
Storage mode: Import
Last refresh: 31/12/2020 11:11:30

Keep all filters
On Add drill-through fields here

Page 1 of 1

Page 1

11:11 31/12/2020

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File Home Insert Modeling View Help

Cut Copy Paste Cut data Excel Power BI datasets Server Enter data sources Refresh data Transform data New visual Feed box More visuals New Quick measure New measure Publish

Queries Data Insert Calculations Share

Visualizations Fields

Search

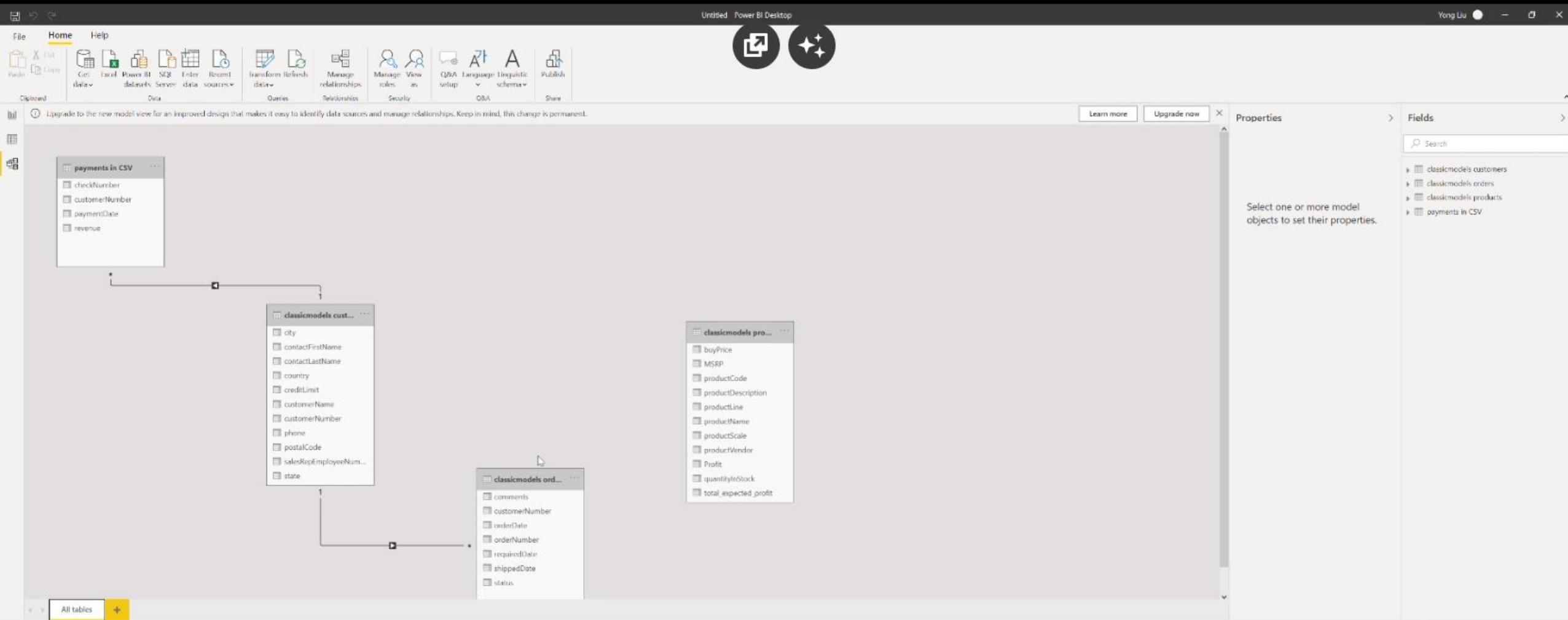
classicmodels.cus... classicmodels ord... classicmodels pro... payments in CSV checkNum... customerID... paymentDate revenue Sample json file ... New measure New column New quick measure Refresh data Edit query Incremental refresh Manage aggregations Rename Delete Hide View hidden Unhide all Collapse all Expand all

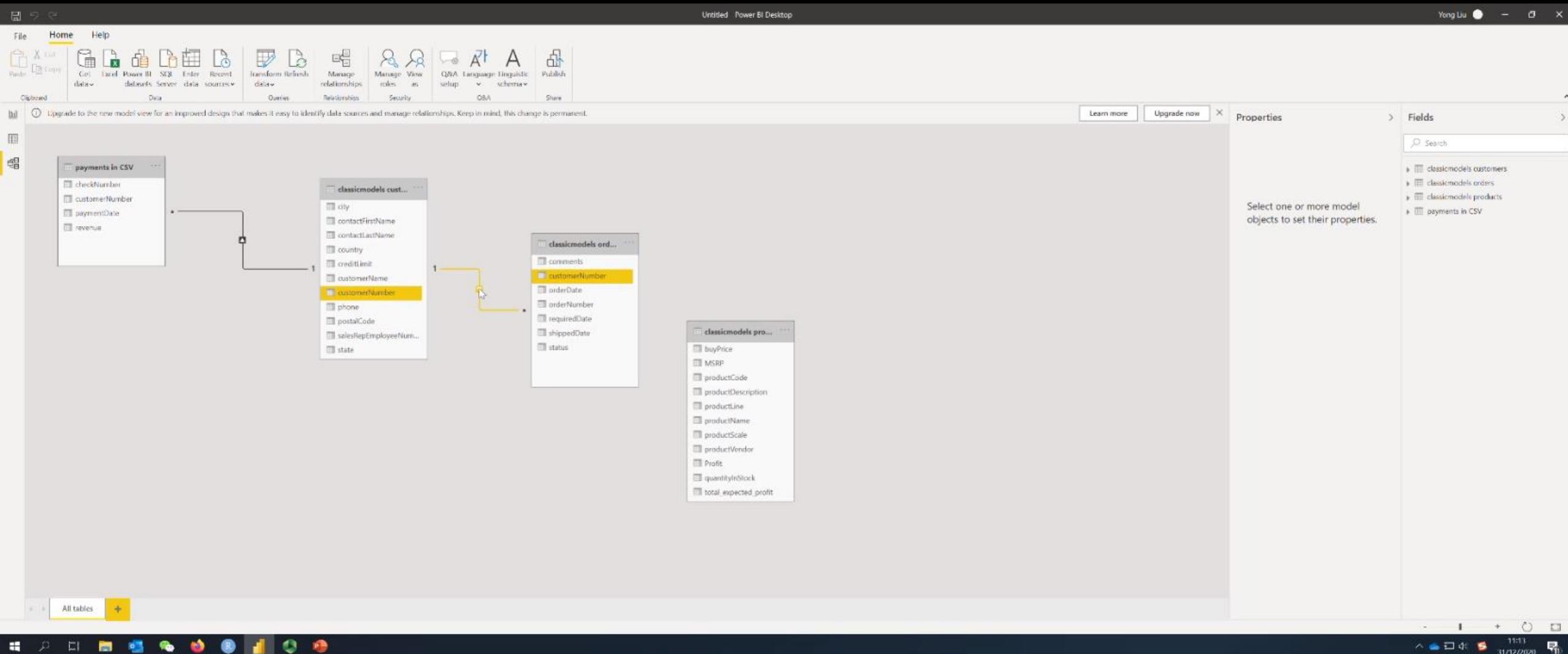
Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Page 1

11:11 01/07/2020





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File Home Help

Clean Copy Paste Get Data Power BI Schemas Data Refresh Data Transform Data Manage Relationships Queries Manage Roles Security Q&A Language Setup Q&A Share

Clipboard

Upgrade to the new model view for an improved design that makes it easy to identify data sources and manage relationships. Keep in mind, this change is permanent.

Learn more Upgrade now

Properties

Fields

Search

Select one or more model objects to set their properties.

payments in CSV

- checkNumber
- customerNumber
- paymentDate
- revenue

classicmodels customers

- city
- contactFirstName
- contactLastName
- country
- creditLimit
- customerName
- customerNumber
- phone
- postalCode
- salesRepEmployeeNumber
- state

classicmodels orders

- comments
- customerNumber
- orderDate
- orderNumber
- requiredDate
- shippedDate
- status

classicmodels products

- buyPrice
- MSRP
- productCode
- productDescription
- productLine
- productName
- productScale
- productVendor
- Profit
- quantityInStock
- total_expected_profit

All tables +

```
graph LR; subgraph Payments ["payments in CSV"]; direction TB; P1[checkNumber] --- P2[customerNumber]; P1 --- P3[paymentDate]; P1 --- P4[revenue]; end; subgraph Customers ["classicmodels customers"]; direction TB; C1[city] --- C2[contactFirstName]; C1 --- C3[contactLastName]; C1 --- C4[country]; C1 --- C5[creditLimit]; C1 --- C6[customerName]; C1 --- C7[customerNumber]; C1 --- C8[phone]; C1 --- C9[postalCode]; C1 --- C10[salesRepEmployeeNumber]; C1 --- C11[state]; end; subgraph Orders ["classicmodels orders"]; direction TB; O1[comments] --- O2[customerNumber]; O1 --- O3[orderDate]; O1 --- O4[orderNumber]; O1 --- O5[requiredDate]; O1 --- O6[shippedDate]; O1 --- O7[status]; end; subgraph Products ["classicmodels products"]; direction TB; P11[buyPrice] --- P12[MSRP]; P11 --- P13[productCode]; P11 --- P14[productDescription]; P11 --- P15[productLine]; P11 --- P16[productName]; P11 --- P17[productScale]; P11 --- P18[productVendor]; P11 --- P19[Profit]; P11 --- P20[quantityInStock]; P11 --- P21[total_expected_profit]; end; Payments -->|Relationship| Customers;
```

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File Home Help

Recent sources

Transform refresh data

Manage relationships

Q&A

Language & linguistic setup

Security

Q&A

Properties

Fields

Search

payments in CSV

classicmodels cust...

classicmodels ord...

classicmodels pro...

Select one or more model objects to set their properties.

1

All tables +

The screenshot shows the Power BI Desktop Data Model View. At the top, there's a banner with a message about upgrading to the new model view. Below the ribbon, there are four circular icons: a refresh, a star, a plus sign, and a minus sign. The main area displays four tables: 'payments in CSV', 'classicmodels cust...', 'classicmodels ord...', and 'classicmodels pro...'. A relationship is visible between 'classicmodels cust...' and 'classicmodels ord...', indicated by a line connecting them with a '1' at the start of the line and a square at the end. The 'classicmodels cust...' table contains fields like checkNumber, customerNumber, paymentDate, and revenue. The 'classicmodels ord...' table contains fields like comments, customerNumber, orderDate, orderNumber, requiredDate, shippedDate, and status. The 'classicmodels pro...' table contains fields like buyPrice, MSRP, productCode, productDescription, productLine, productName, productScale, productVendor, Profit, quantityInStock, and total_expected_profit. On the right side, there's a 'Properties' pane where users can select one or more model objects to set their properties. The bottom of the screen shows the Windows taskbar with various pinned icons and the system clock indicating it's 11:14 on 31/12/2018.

Untitled - Power BI Desktop

Yong Liu

File Home Help

Get data... Power BI Server Enter data Recent sources Data Transform data Refresh data Manage relationships Relationships Security Q&A Language setup Q&A Publish

Dashboard

Upgrade to the new model view for an improved design that makes it easy to identify data sources and manage relationships. Keep in mind, this change is permanent.

Learn more Upgrade now

Properties

Search

Select one or more model objects to set their properties.

All tables +

The screenshot shows the Power BI Desktop Data Model View. On the left, there are three tables listed: 'payments in CSV', 'classicmodels cust...', and 'classicmodels ord...'. The 'classicmodels cust...' table is currently selected, as indicated by its expanded state and the highlighted 'customerNumber' field. A relationship is visible between the 'classicmodels cust...' table and the 'classicmodels ord...' table, represented by a line connecting the two tables with a small square at the connection point. The 'classicmodels ord...' table is also expanded, showing fields like 'customerNumber', 'orderDate', and 'orderNumber'. The 'classicmodels pro...' table is shown below, but it is not expanded. The bottom navigation bar includes icons for Windows, search, file, and other application functions. The status bar at the bottom right shows the date and time: 11:14 31/12/2020.

