

POWER QUERY RECIPES

Master Your Data in
Excel & Power BI





ABOUT POWER QUERY RECIPES

These cards are a set of ready-to-use Power Query Recipes to lead you step-by-step through a variety of data transformations and techniques. These cards are a useful reference where you can look up the exact steps needed for a particular data transformation pattern. We hope you find them as handy as we do ourselves!

USING THE RECIPE CARDS

The Table of Contents and the recipe cards are fully linked so you can easily navigate between them. Clicking on the recipe number or name on the Table of Contents will take you directly to that recipe. Likewise, if a recipe card references another recipe, clicking that reference will take you directly to the referenced recipe.

Many of the recipes are also linked to corresponding videos in our Power Query Academy course and are indicated with the video icon shown here:



If you are enrolled in the full Power Query Academy course (not in the free trial or any of our other courses), clicking the video icon will take you to that video on the course site. Please note that you will first need to login to the course site before being able to watch the video.

If you are on the ongoing subscription of these cards, we will let you know when new cards have been added to the set you so can download your updated copy.







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00. BEST PRACTICE ARCHITECTURES

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0.110.1902	Creating a Staging Query	n/a
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10. SPLITTING DATA

10.100.1809	Split Records into Columns	 Module 3, Video 3
10.105.1809	Split Records into Rows	 Module 3, Video 4

20. RESHAPING DATA

20.100.1809	Pivoting Data	 Module 3, Video 2
20.105.1809	Unpivoting Data	 Module 3, Video 1
20.110.1809	Transposing Data	 Module 7, Video 3
20.115.1809	Unpivot Subcategorized Data	 Module 7, Video 3
20.116.1809	Unpivot Subcategories – Big Data	 Module 7, Video 3
20.120.1809	Pivoting Stacked Data	 Module 7, Video 2

Look for the
Pattern
Difficulty scale:



No
Code



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Code



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Code

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30. COMBINING DATA

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30.105.1809	Exact Match	 Module 4, Video 7
30.110.1809	Left Outer Join	 Module 4, Video 8
30.111.1809	Right Outer Join	 Module 4, Video 8
30.112.1809	Full Outer Join	 Module 4, Video 8
30.113.1809	Inner Join	 Module 4, Video 8
30.114.1809	Left Anti Join	 Module 4, Video 8
30.115.1809	Right Anti Join	 Module 4, Video 8
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30.120.1809	Cartesian Product (Many to Many Join)	 Module 4, Video 9
30.125.1809	Approximate Match	 Module 4, Video 10

35. APPENDING DATA

35.400.1901	Appending Data Recipe Navigation	n/a
35.410.1811	Local/Network Drive “FilesList” Query	 Module 4, Video 4

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35.420.1901	Combine All “Flat” Files in a Folder	 Module 4, Video 4

40. CONDITIONAL LOGIC

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40.105.1809	Extract to New Column Based on Next Row	 Module 9, Video 6

50. RANKING

50.100.1809	Ordinal Ranking	n/a
50.105.1809	Standard Competition Ranking	n/a
50.110.1809	Modified Competition Ranking	n/a
50.115.1902	Dense Ranking	n/a
50.120.1809	Fractional Ranking	n/a
50.125.1809	Number Grouped Rows	n/a

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60. DATE & TIME TECHNIQUES

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60.105.1809	Dynamic Calendar: Start Date to End Date	 Module 13, Video 2
60.110.1809	Dynamic Calendar: Start Date + x Days	 Module 13, Video 3

70. MISCELLANEOUS

70.100.1809	Add a Random Number to all Table Rows	n/a
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SAMPLE RECIPES

Get the full set of Power Query Recipes at:
<https://powerquery.training/shop>

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Source Table

```

Transactions
2/28/2017
HOLIDAY INN VANCOUVER CENVANCOUVER BC
158.14

2/28/2017
BCF-RBI-ONLINE BOOKING VICTORIA BC
18.5

2/27/2017
BCF-HORSESHOE BAY VICTORIA BC
105.65

2/25/2017
WESTIN GRAND HOTEL VANCOUVER BC
117

2/23/2017
ORIGINAL JOES RESTAURANT VANCOUVER BC
57.96

2/22/2017
JOEY BENTALL ONE VANCOUVER BC
185.93
    
```

Pivoting Stacked Data Recipe

Add a columns for transaction and line IDs

Add Column → Index Column → From 0

Select **[Index]** → Add Column → Standard → Integer-Divide*

Select **[Index]** → Transform → Standard → Modulo*

Pivot the data

Select **[Index]** → Transform → Pivot Column

Set the Values field to your data column

Go Advanced and "Don't Aggregate"

Right click the **[Integer-Divide]** column → Remove

Rename the newly created columns

Set your data types

Output Table

Date	Vendor	Amount
Tuesday, February 28, 2017	HOLIDAY INN VANCOUVER CENVANCOUVER BC	\$158.14
Tuesday, February 28, 2017	BCF-RBI-ONLINE BOOKING VICTORIA BC	\$18.5
Monday, February 27, 2017	BCF-HORSESHOE BAY VICTORIA BC	\$105.65
Saturday, February 25, 2017	WESTIN GRAND HOTEL VANCOUVER BC	\$117
Thursday, February 23, 2017	ORIGINAL JOES RESTAURANT VANCOUVER BC	\$57.96
Wednesday, February 22, 2017	JOEY BENTALL ONE VANCOUVER BC	\$185.93
Tuesday, February 21, 2017	SUTTON PLACE HOTEL VAN VANCOUVER BC	\$458.96
Monday, February 20, 2017	SPICY 6 FINE INDIAN CUISIVANCOUVER BC	\$27.72
Monday, February 20, 2017	BCF-RBI-ONLINE BOOKING VICTORIA BC	\$33.5
Monday, February 20, 2017	BCF- NANAIMO VICTORIA BC	\$71.75
Monday, February 20, 2017	"BCF-COWICHAN, QUEEN VICTORIA BC "	\$11.64
Tuesday, February 14, 2017	BCF-HORSESHOE BAY VICTORIA BC	\$88.7
Friday, February 10, 2017	SUTTON PLACE HOTEL VAN VANCOUVER BC	\$9.71
Friday, February 10, 2017	SUTTON PLACE HOTEL VAN VANCOUVER BC	\$233.16
Friday, February 10, 2017	BCF- NANAIMO VICTORIA BC	\$88.7

* Modulo and Integer Divide always target the number representing the 1st row of the 2nd transaction

	AB Transactions	1.2 Index
1	2/28/2017	0
2	HOLIDAY INN VANCOUVER CENVAN...	1
3	158.14	2
4		3
5	2/28/2017	4
6	BCF-RBI-ONLINE BOOKING VICTO...	5
7	18	6
8		7
9	2/27/2017	8
10	BCF-HORSESHOE BAY VICTORIA BC	9
11	105.65	10
12		11
13	2/25/2017	12

Power Query Academy
Subscribers: Click here to see this recipe in action!

For more data patterns check out our Academy at:
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Recipe: 20.120.1809





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Source Table

Order ID	Quantity
TX000987	75
TX000988	2,755
TX000989	5,919
TX000990	1,000
TX000991	14,169

Key Match

Match Return

Quantity	Price Per
1	5.95
250	5.85
1000	5.75
2500	5.65
5000	5.55
10000	5.45

Lookup Table

Approximate Match Recipe

Prepare **Source** table
Set data types

Prepare **Lookup** table
Rename **[Match]** column to match **Source** table
Set data types

Perform the match
Reference the **Source** table
Go to Home → Append → **Lookup** table
Filter the **[Match]** column → Sort Ascending
Filter the **[Key]** column → Sort Ascending
Right click the **[Return]** column → Fill → Down
Filter the **[Key]** column → uncheck *null*

Output Table

Order ID	Quantity	Price Per
TX000987	75	5.95
TX000990	1000	5.75
TX000988	2755	5.65
TX000989	5919	5.55
TX000992	10670	5.45
TX000991	14169	5.45

Key Match Return



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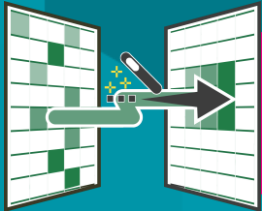


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MASTER YOUR DATA

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