

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 one or more of our Skillwave Training courses, and are indicated with the video icons shown here:



*Power Query
Academy*



*Dimensional Modeling
for the Excel Pro*



*Dimensional Modeling
for the Power BI Pro*

If you are enrolled in the corresponding course(s) indicated on the recipe card, 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. *You will not be able to watch the video if you are not enrolled in the corresponding course.*

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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Course for Corresponding Video:

00. BEST PRACTICE ARCHITECTURES

- 0.100.1902 Files as a Data Source
- 0.110.2010 Creating a Staging Query
- 0.120.2010 Modifying Query Load Destinations
- 0.410.2010 Creating Fact Tables
- 0.510.2010 Creating Dimension Tables
- 0.520.2010 Creating Bridge Tables
- 0.530.2010 Creating Composite Keys
- 0.540.2010 Flattening Snowflaked Dimensions

10. SPLITTING DATA

- 10.100.1910 Split Records into Columns
- 10.105.1910 Split Records into Rows

20. RESHAPING DATA

- 20.100.1910 Pivoting Data
- 20.105.1910 Unpivoting Data
- 20.106.1906 Keep *nulls* During Unpivot
- 20.107.1910 Prevent Errors During Unpivot

Power Query Academy	Dimensional Modeling	
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Power Query Academy	Dimensional Modeling	
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Look for the Pattern Difficulty Scale:



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20. RESHAPING DATA

- 20.110.1910 Transposing Data
- 20.115.1910 Unpivot Subcategorized Data
- 20.116.1910 Unpivot Subcategories – Big Data
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30. COMBINING DATA

- 30.100.1910 7 Ways to Join Your Data
- 30.105.1910 Exact Match
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- 30.111.1910 Right Outer Join
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- 30.114.1910 Left Anti Join
- 30.115.1910 Right Anti Join
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- 30.120.1910 Cartesian Product (Many to Many Join)
- 30.125.1910 Approximate Match

Course for Corresponding Video:

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Course for Corresponding Video:

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Power Query Academy	Dimensional Modeling	
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- 60.002.2010 Overview: Creating Dynamic Calendar Tables Part 2
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Course for Corresponding Video:

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Power Query Academy	Dimensional Modeling	
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Sample Recipes

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

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Pattern Difficulty



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

	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

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



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

For more data patterns check out our courses at:
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Recipe: 20.120.1910

US\$19.95

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Pattern Difficulty



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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