# POWER QUERY RECIPES

### Master Your Data in Excel & Power Bl





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# **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!

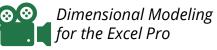
### **Using the Recipe Cards**

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:



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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.







#### **Course for Corresponding Video:**

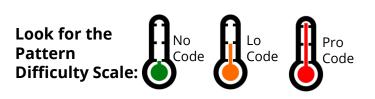
### **00. BEST PRACTICE ARCHITECTURES**

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
0.550.2203	Quickly Setting Data Type of All Columns

#### **10. SPLITTING DATA**

10.100.1910	Split Records into Columns
10.105.1910	Split Records into Rows

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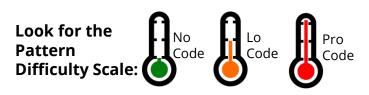
#### **Course for Corresponding Video:**

### **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
20.110.1910	Transposing Data
20.115.1910	Unpivot Subcategorized Data
20.116.1910	Unpivot Subcategories – Big Data
20.120.2112	Pivoting Stacked Data
20.130.2112	Pivoting Vertical Sets
20.140.2012	Pivoting Horizontal Pairs
20.150.2103	Remove Top x (Dynamic) Rows
20.160.2206	Shift Non-Aligned Columns Left

20.170.2209 Unfill in Power Query

Power Query Academy	Dimensional Modeling	
8.8	n/a	n/a
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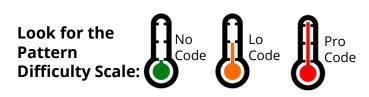


#### **30. COMBINING DATA**

- 30.100.1910 7 Ways to Join Your Data
- 30.105.2103 Exact Match
- 30.110.2103 Left Outer Join
- 30.111.2103 Right Outer Join
- 30.112.2103 Full Outer Join
- 30.113.2103 Inner Join
- 30.114.2103 Left Anti Join
- 30.115.2103 Right Anti Join
- 30.116.2103 Full Anti Join
- 30.120.2203 Cartesian Product (Many to Many Join)
- 30.125.1910 Approximate Match
- 30.130.2012 Fuzzy Matching

Power Query Academy	Dimensional Modeling	
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**Course for Corresponding Video:** 



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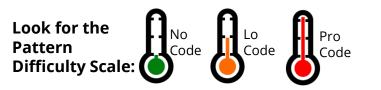


#### **35. APPENDING DATA**

35.100.1910	Basic Append
35.200.2303	Append all Tables in the Current Workbook
35.400.1908	Appending Data Recipe Navigation
35.410.1910	Local/Network Drive "FilesList" Query
35.412.1901	SharePoint/Office 365 Groups "FilesList" Query
35.414.1901	OneDrive for Business "FilesList" Query
35.420.1910	Combine All "Flat" Files in a Folder
35.500.1910	Appending a Named Worksheet or Table from Multiple Excel Files
35.510.1907	Appending Contents of x <sup>th</sup> Table or Worksheet from Multiple Excel Files
35.520.1907	Appending Contents and Name of $x^{th}$ Table

### **40. CONDITIONAL LOGIC**

40.100.1910	Extract to New Column Based on Prior Row
40.105.1910	Extract to New Column Based on Next Row



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88 1	n/a	n/a
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Power Query Academy	Dimensional Modeling	
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#### 50. RANKING

- 50.100.2001 Ordinal Ranking
- 50.105.2001 Standard Competition Ranking
- 50.110.2001 Modified Competition Ranking
- 50.115.2001 Dense Ranking
- 50.120.2004 Fractional Ranking
- 50.125.2010 Number Grouped Rows

### **60. DATE & TIME TECHNIQUES**

60.001.2010	Overview: Creating Dynamic Calendar Tables Part 1
60.002.2010	Overview: Creating Dynamic Calendar Tables Part 2
60.100.2010	Dynamic Calendar Boundaries: Standard Year Ends
60.105.2010	Dynamic Calendar Boundaries: Non-Standard Year Ends
60.110.2010	Helper Queries for Custom Calendars
60.120.2010	Year End Adjustment for Non-Standard Year Ends: 12-Month Calendars
60.130.2010	Year End Adjustment for Non-Standard Year Ends: 364-Day Calendars

Look for the Pattern Difficulty Scale:

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#### **Course for Corresponding Video:**

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# **Power Query Recipes – Table of Contents**

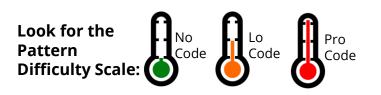
#### **Course for Corresponding Video:**

Dimensional

**Power Query** 

•	DATE & TIM	IE TECHNIQUES CONTINUED
	60.210.2010	Dynamic Calendar: Start Date to End Date
	60.220.2004	Dynamic Calendar: Start Date + x Days
	60.330.2010	Fiscal Periods for 12-Month Non-Standard Year Ends
	60.410.2010	PeriodID Column Recipes for 364-Day Calendars
	60.420.2010	MonthID Column Recipe for 364-Day Calendars
	60.430.2010	Fiscal Period Columns for 445/454/544 Calendars
	60.510.2010	PeriodID Column Formulae for 13 x 4-Week Calendars
	60.530.2303	Fiscal Period Columns for 13 x 4-Week Calendars
	60.800.2010	Replace null with Current Date
	60.850.2109	Creating a Custom GetMonthEnds Function
	60.855.2109	Creating a Custom GetYearEnds Function
	60.900.1903	Convert a Unix Timestamp to a Valid Date
	60.910.1903	Convert UTC DateTime to Local DateTime
	60.920.1903	Switching DateTimes Zones
	60.950.2303	Convert a Julian Date to a Gregorian Date

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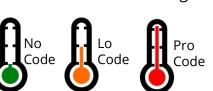
#### **65. ALLOCATING VALUES**

65.100.2109	Allocating Values Over Periods Between Two Dates
65.101.2109	Allocating Values Over x Periods From a Start Date
65.110.2109	Allocate Evenly to Each Day in Period
65.120.2109	Allocate to Month by Days in Period
65.130.2109	Allocate Evenly to each Month in Period
65.220.2109	Allocate to Year by Days in Period
65.230.2109	Allocate Evenly to each Year in Period
65.310.2109	Allocate Over x Months from Start Date
65.320.2112	Allocate Over x Years from Start Date
65.410.2109	Allocate Over x Consecutive Days from Start
65.420.2109	Allocate Over x Instances at y Intervals

### 70. MISCELLANEOUS

70.100.2112	Add a Random Number to all Table Rows
70.110.1908	Difference from Prior Row
70.120.1908	Import the Most Recent File in a Folder
70.130.2203	Choosing Columns vs Removing Columns

Look for the Pattern Difficulty Scale



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Power Query Academy	Dimensional Modeling	
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