

POWER QUERY RECIPES

Master Your Data in
Excel & Power BI







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Look for the
Pattern
Difficulty scale:



No
Code



Lo
Code



Mo
Code

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Look for the
Pattern
Difficulty scale:



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SAMPLE RECIPES

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





Pivoted Data

Sales Category	2014-01-01	2014-01-02	2014-01-03	Total
Beer	103	243	101	447
Wine	175	223	138	536
Liquor	162	207	103	472
Total	440	673	342	1,455



Pivoted Data (Transposed)

Date	Beer	Wine	Liquor	Total
2014-01-01	103	175	162	440
2014-01-02	243	223	207	673
2014-01-03	101	138	103	342
Total	447	536	472	1455

Un-Pivoting Data Recipe

Prepare Source table

- Remove the Changed Type Step *
- Filter out Total and Subtotal rows
- Delete any Total and Subtotal columns

Unpivot the Data

- Select all columns to keep as is
- Right click → Unpivot Other Columns
- Rename the [Attribute] column
- Rename the [Value] column
- Set data types

* Only required if your source data's column names will change



Unpivoted Data

Sales Category	Date	Units
Beer	2014-01-01	103
Beer	2014-01-02	243
Beer	2014-01-03	101
Wine	2014-01-01	175
Wine	2014-01-02	223
Wine	2014-01-03	138
Liquor	2014-01-01	162
Liquor	2014-01-02	207
Liquor	2014-01-03	103



Watch this recipe in action in our Power Query Academy!

For more data patterns check out our Academy at:
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Recipe: 20.105.1809





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Full Anti Join:

Show only records that do not have matches in the other table

Source Table

Account	Dept	Amount
64010	150	8,975
64020	150	13,708
64030	150	32,555
64010	250	22,752
64015	150	34,147
64030	250	19,733
64040	250	33,438
64010	350	45,876

Key Columns

Key Columns

Account	Dept	Name
64010	150	Revenue - 18 Holes
64020	150	Revenue - 9 Holes
64030	150	Revenue - Twilight
64040	150	Revenue - Special
64010	250	Rentals - Power Cart
64020	250	Rentals - Pull Cart
64030	250	Rentals - Clubs
64040	250	Revenue - Golf Balls

Lookup Table

Only items where the Key column doesn't have a match will be displayed

Account	Amount	COA.Account	COA.Name
64015	33,118		
		64025	Revenue - Senior 9

This join is not available in the user interface and must be created manually!



Full Anti Join Recipe

Create **Left Anti-Join** query* (*Recipe 30.116.x*)

Create **Right Anti-Join** query* (*Recipe 30.117.x*)

Expand ***all fields*** from joined **[Key]** column†

Load as staging queries (Connection Only)

Reference **Left Anti-Join** query

Go to Home → Append → **Right Anti-Join** query

Load to your destination

* *Ensure names of columns are identical in both queries*

† *If both tables contain the same field names, rename the Join column then expand it with the Preface option checked*



Watch this recipe in action in our Power Query Academy!

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Recipe: 30.116.1809





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Pattern Difficulty



Dynamic Calendar Boundaries Recipe

Determine the StartDate

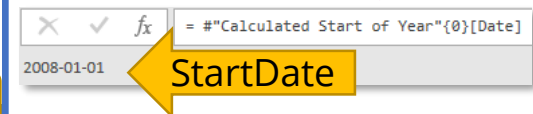
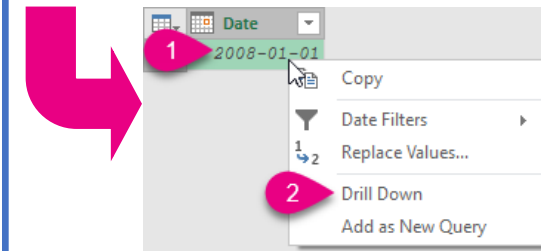
Reference table with earliest date
Right click [Date] → Remove Other Columns
Filter [Date] → Date Filters → Is **Earliest**
Right click [Date] → Remove duplicates
Change the data type to a Date*
Transform → Date → Year → **Start of Year**
Right click the date cell → Drill down†
Call query **StartDate** (no spaces)
Load as Connection Only

Determine the EndDate

Reference table with latest date
Right click [Date] → Remove Other Columns
Filter [Date] → Date Filters → Is **Latest**
Right click [Date] → Remove duplicates
Change the data type to a Date*
Transform → Date → Year → **End of Year**
Right click the date cell → Drill down†
Call query **EndDate** (no spaces)
Load as Connection Only

Continue with your preferred Dynamic Calendar Recipe

Month End	Category	Amount
2008-01-31	Beer	226.22
2008-01-31	Beer	1657.65
2008-01-31	Cider	10.55
2008-01-31	Liquor	473.05
2008-02-29	Beer	984.34
2008-02-29	Beer	2398.14
2008-02-29	Cider	64.04



* This step is important if you are not forcing to start/end of period

† Ensure that you click the cell to drill down, not the header of the table. You need your new formula to read as follows: =#"<previous step name>"{0}[Date Column Name]



Watch this recipe in action in our Power Query Academy!

For more data patterns check out our Academy at:
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Recipe: 60.100.1809





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Pattern Difficulty



Dynamic Calendar Recipe: From Start Date to End Date

Determine the Calendar boundaries

Create **StartDate** query (Recipe 60.100.x)

Create **EndDate** query (Recipe 60.100.x)

Create a Blank Query

Enter the following in the formula bar:

```
= {Number.From (StartDate) .. Number.From (EndDate) }
```

Go to List Tools → To Table → OK

Set [Column1] to a Date data type

Rename [Column1] to Date

Rename the table to Calendar

Add New Columns

1. Select the [Date] column
2. Go to Add Column → Date → <the format to add>
3. Repeat Steps 1-2 as many times as needed

Load the Calendar to the intended destination

Given only a
StartDate and
an **EndDate**...

	List
1	39448
2	39449
3	39450
4	39451
5	39452
6	39453

	Date
1	2008-01-01
2	2008-01-02
3	2008-01-03
4	2008-01-04
5	2008-01-05
6	2008-01-06

Fully Dynamic 'Calendar' Table

	Date	Year	Month	Month Name	Day
1	2008-01-01	2008	1	Jan	1
2	2008-01-02	2008	1	Jan	2
3	2008-01-03	2008	1	Jan	3
4	2008-01-04	2008	1	Jan	4
5	2008-01-05	2008	1	Jan	5
6	2008-01-06	2008	1	Jan	6

To shorten Month or Day names, go to
Transform → Extract → First Characters



Watch this recipe in
action in our Power
Query Academy!

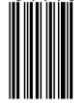
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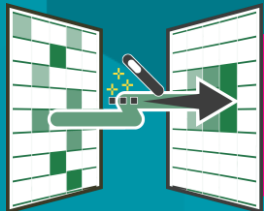


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