

# Week 1 — Get and Transform (Power Query) — Part



Set and Transform is a new and powerful way to import and manipulate data in Excel. This week is just the beginning.

You access Get and Transform on the Data Ribbon (it looks slightly different in older versions of Excel). Under

Table in the current workbook, an Excel or CSV file, or a database. You can also your data. Common sources include a Get Data you can select the source of import all files in a folder.



# **CREATE A TABLE**

good practice to create the table yourself by going to file it will automatically be converted to a table. It is name will carry through to become the name of the When creating a query from data in the same Excel Insert > Table or Ctrl+T. Rename the table on the query. If you do not wish to convert the data to a Table Design ribbon, then create the query. The table, connect to it from a different workbook.

## **FORMULA BAR**

the M code for the current formula. Make it visible by Query Editor formula bar allows you to view and edit going to **View > Formula Bar**. You can use the  $f_x$ Like the Excel workbook formula bar, the Power button to add a new custom step.

#### **LOAD TO**

include it as a table in your workbook or just create a When you import data, you can choose whether to

Add this data to the Data Model also load the data directly to useful if the query is used as connection. A connection is input to other queries, but a PivotTable or PivotChart. you do not need to view it directly. In 0365 you can

OK Cancel

# Append

that the tables have the same column datasets on top of each other. Ensure Append queries allow you to stack otherwise Excel will not append names before appending them,

APPEND QUERIES

correctly. The columns do not need to be in the same order, but the names must match.

## **MERGE QUERIES**



values used to match between the tables, one table to another). When you Merge, you specify which columns contain the tables side-by-side (add columns from You use Merge when you want to add

often ID or Name. You can match multiple columns by holding down Ctrl.

# SPLIT AND MERGE COLUMNS

many ways to split the data, depending on how your information in 1 column. You can use Split Column to extract these into separate columns. There are Columns, where you can take the contents of 2 or separator of your choice. Like TEXTJOIN in Excel. more columns and join them together with the data is arranged. The opposite of this is Merge A common issue is having several pieces of

### **JOIN KINDS**

When merging tables, you can choose what to do versions of Excel, you need to edit the M code of when there are rows that do not match between the tables. This is called the Join Kind. In older the merge to choose the Join Kind.

# Left Outer

## **Right Outer**

matching rows from All rows from the second table and the first table. All rows from the first rows from the second

table and matching

table.

M: JoinKind.RightOuter

M: JoinKind.LeftOuter

**Full Outer** 

All rows from both tables. Only rows that match

M: JoinKind.FullOuter

M: JoinKind.Inner

in both tables.

Left Anti

All rows in the first table which do not

match the second

table.

Right Anti

All rows in the second match the first table. table which do not

M: JoinKind.RightAnti

## **RENAME A QUERY**

M: JoinKind.LeftAnti

your query a suitable name. You can change it in the Query Settings when you are creating it, or Just like with tables, it is good practice to give right-click > Rename in the Queries & Connections panel