

Power BI : The Foundations of 'M'

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Class Information

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M

Basics of M

Data Cleansing with M

M Basics

What is M?

Why M?

Understanding M syntax

Using M Query Formulas

What is M Query?

'M' is for Mashup

M is easily made dynamic

Why M Query? Data Transformations

Pivot/Unpivot

Removing unwanted characters

Splitting columns

Query editor is just a UI that generates M



M Query Fundamentals

Where to Write M

Query Editor formula bar

View > Advanced Editor

M Query Results

Can produce a single value, list (array), table, function

Can be copied and pasted to other workbooks but not the best sharing method

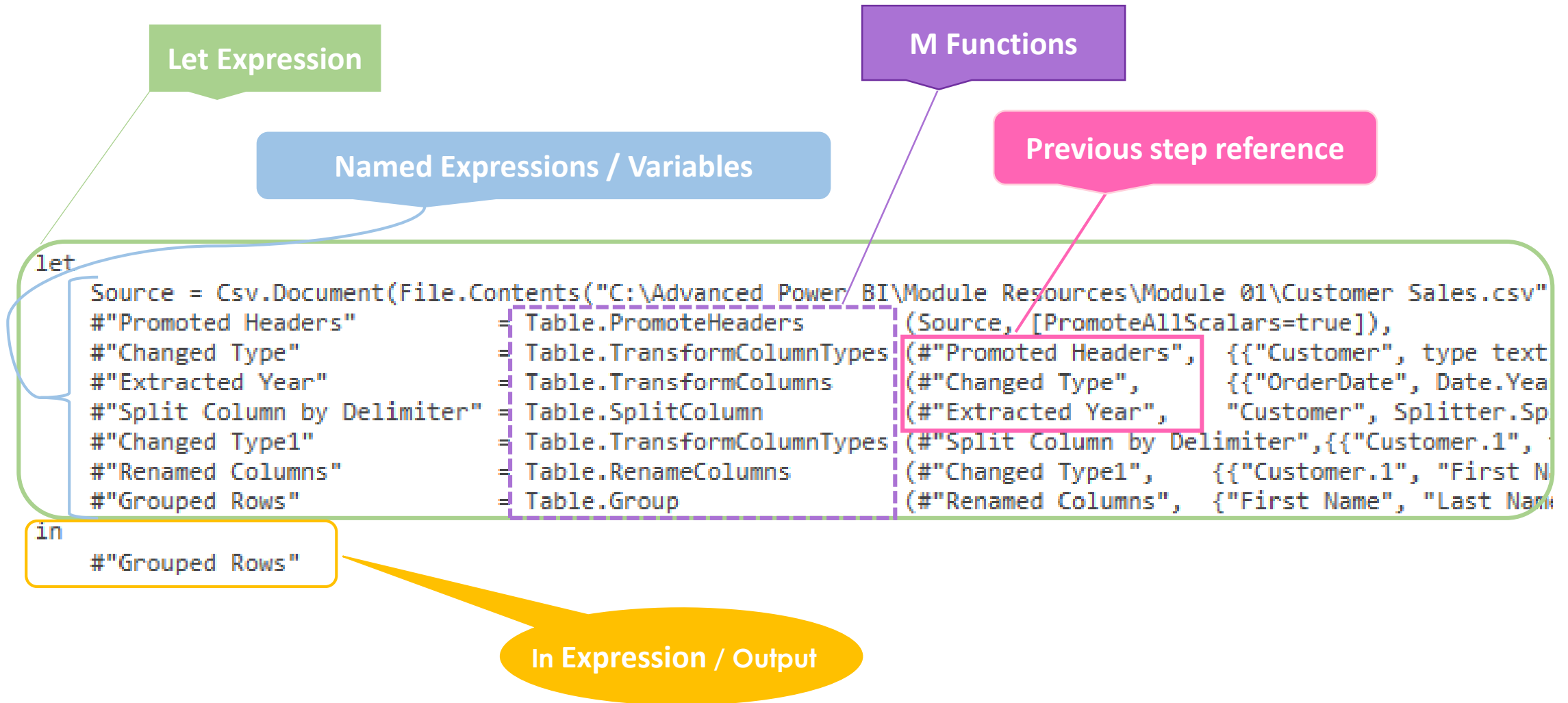
M Query Tips

Case sensitive!

Use #shared to return Library Functions



Taking a look at M code



DEMO

M Query Basics

#shared

Available M Functions

#shared

Get Data Recent Sources Enter Data

Most Common

- Excel
- SQL Server
- Analysis Services
- Text/CSV
- Web
- OData feed
- Blank Query**

More...

Queries [2]

ABC Query1

fx = Record.ToTable(Source)

ABC	Name	ABC	Value
1	Query1	123	Table
2	Customer Sales		Table
3	GoogleAnalytics.Accounts		Function
4	Value.ResourceExpression		Function
5	Resource.Access		Function
6	SapBusinessWarehouse.Cubes		Function
7	Web.Page		Function
8	appFigures.Tables		Function
9	appFigures.Content		Function
10	AzureEnterprise.Contents		Function
11	AzureEnterprise.Tables		Function
12	comScore.GetReport		Function
13	comScore.ReportItems		Function
14	comScore.NavTable		Function
15	CustomerInsights.Tables		Function
16	Github.Contents		Function
17	Github.PagedTable		Function

Github.Tables Function

DEMO

#shared

M Query Basics

M Query Basics

Type	Syntax	Description
Record	[X = 1] or [X =1, Y=2]	
List	{1,2,3} or {"A", "B"} or {1..10}	
Table	#table({"Col1", "Col2"}, {{1,2}, {2,1}})	#table({List of Columns}, {{List of Records}})
Function	(a) =>	
Duration	#duration(0,0,0,0)	#duration(days, hours, minutes, seconds)
Date	#date(2017, 8, 30)	#date(year, month, day)
Time	#time(12,18,0)	#time(hour, minute, second)

DEMO

M Query Basics