

# Transforming data

INTRODUCTION TO POWER BI



**Iason Prassides**

Content Developer, DataCamp

# Transforming data

- Dataset may contain:
  - Columns you don't need
  - Inconvenient and inconsistent formatting
  - Extra characters
  - Blank rows
- Cleaning data

# Loading data

FactSale.csv

File Origin

65001: Unicode (UTF-8)

Delimiter

Comma

Data Type Detection

Based on first 200 rows

📄

Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key	Salesperson Key	Weight
49258	71135	0	0	194	10/22/2013	10/23/2013	86	
49265	41568	0	0	204	10/22/2013	10/23/2013	83	
49456	70409	0	0	202	10/22/2013	10/23/2013	74	
49372	48937	0	0	173	10/22/2013	10/23/2013	83	
49624	41981	0	0	168	10/24/2013	10/25/2013	85	
49635	70510	0	0	164	10/24/2013	10/25/2013	84	
49908	66274	0	0	198	10/25/2013	10/26/2013	70	
50034	44106	0	0	180	10/25/2013	10/26/2013	85	
50190	56014	0	0	195	10/26/2013	10/27/2013	74	
50487	79969	0	0	164	10/28/2013	10/29/2013	19	
50367	81342	0	0	180	10/28/2013	10/29/2013	85	
50379	91464	0	0	174	10/28/2013	10/29/2013	70	
50436	38583	0	0	192	10/28/2013	10/29/2013	19	
50715	85575	0	0	190	10/29/2013	10/30/2013	39	
50739	81481	0	0	168	10/29/2013	10/30/2013	83	
50914	75393	0	0	171	10/30/2013	10/31/2013	74	
51426	87371	0	0	163	11/4/2013	11/5/2013	84	
51623	47499	0	0	179	11/5/2013	11/6/2013	19	
51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples

Load

Transform Data

Cancel

# Loading data

FactSale.csv

File Origin

65001: Unicode (UTF-8)

Delimiter

Comma

Data Type Detection

Based on first 200 rows

Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key	Salesperson Key	WI
49258	71135	0	0	194	10/22/2013	10/23/2013	86	
49265	41568	0	0	204	10/22/2013	10/23/2013	83	
49456	70409	0	0	202	10/22/2013	10/23/2013	74	
49372	48937	0	0	173	10/22/2013	10/23/2013	83	
49624	41981	0	0	168	10/24/2013	10/25/2013	85	
49635	70510	0	0	164	10/24/2013	10/25/2013	84	
49908	66274	0	0	198	10/25/2013	10/26/2013	70	
50034	44106	0	0	180	10/25/2013	10/26/2013	85	
50190	56014	0	0	195	10/26/2013	10/27/2013	74	
50487	79969	0	0	164	10/28/2013	10/29/2013	19	
50367	81342	0	0	180	10/28/2013	10/29/2013	85	
50379	91464	0	0	174	10/28/2013	10/29/2013	70	
50436	38583	0	0	192	10/28/2013	10/29/2013	19	
50715	85575	0	0	190	10/29/2013	10/30/2013	39	
50739	81481	0	0	168	10/29/2013	10/30/2013	83	
50914	75393	0	0	171	10/30/2013	10/31/2013	74	
51426	87371	0	0	163	11/4/2013	11/5/2013	84	
51623	47499	0	0	179	11/5/2013	11/6/2013	19	
51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples

Load

Transform Data

Cancel

# Loading data

FactSale.csv

File Origin

65001: Unicode (UTF-8)

Delimiter

Comma

Data Type Detection

Based on first 200 rows

Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key	Salesperson Key	WI
49258	71135	0	0	194	10/22/2013	10/23/2013	86	
49265	41568	0	0	204	10/22/2013	10/23/2013	83	
49456	70409	0	0	202	10/22/2013	10/23/2013	74	
49372	48937	0	0	173	10/22/2013	10/23/2013	83	
49624	41981	0	0	168	10/24/2013	10/25/2013	85	
49635	70510	0	0	164	10/24/2013	10/25/2013	84	
49908	66274	0	0	198	10/25/2013	10/26/2013	70	
50034	44106	0	0	180	10/25/2013	10/26/2013	85	
50190	56014	0	0	195	10/26/2013	10/27/2013	74	
50487	79969	0	0	164	10/28/2013	10/29/2013	19	
50367	81342	0	0	180	10/28/2013	10/29/2013	85	
50379	91464	0	0	174	10/28/2013	10/29/2013	70	
50436	38583	0	0	192	10/28/2013	10/29/2013	19	
50715	85575	0	0	190	10/29/2013	10/30/2013	39	
50739	81481	0	0	168	10/29/2013	10/30/2013	83	
50914	75393	0	0	171	10/30/2013	10/31/2013	74	
51426	87371	0	0	163	11/4/2013	11/5/2013	84	
51623	47499	0	0	179	11/5/2013	11/6/2013	19	
51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples

Load

Transform Data

Cancel

# Power Query Editor

FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyClose

New SourceNew Query

Recent Sources

Enter Data

Data source settingsData Sources

Manage ParametersParameters

Refresh PreviewQuery

PropertiesAdvanced EditorManage

Choose ColumnsManage Columns

Remove Columns

Keep RowsReduce Rows

Remove Rows

Sort

Split Column

Group By

Replace Values

Data Type: Whole NumberUse First Row as HeadersTransform

Merge QueriesAppend QueriesCombine

Combine Files

Text AnalyticsVisionAzure Machine LearningAI Insights

Queries [1]

FactSale

fx

= Table.TransformColumnTypes(#"Promoted Headers",{{"Sale Key", Int64.Type}, {"City Key", Int64.Type}, {"Customer Key", Int64.Type}, {"Bill To Customer

	Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key
1	49258	71135	0	0	194	10/22/2013	10/23/2013
2	49265	41568	0	0	204	10/22/2013	10/23/2013
3	49456	70409	0	0	202	10/22/2013	10/23/2013
4	49372	48937	0	0	173	10/22/2013	10/23/2013
5	49624	41981	0	0	168	10/24/2013	10/25/2013
6	49635	70510	0	0	164	10/24/2013	10/25/2013
7	49908	66274	0	0	198	10/25/2013	10/26/2013
8	50034	44106	0	0	180	10/25/2013	10/26/2013
9	50190	56014	0	0	195	10/26/2013	10/27/2013
10	50487	79969	0	0	164	10/28/2013	10/29/2013
11	50367	81342	0	0	180	10/28/2013	10/29/2013
12	50379	91464	0	0	174	10/28/2013	10/29/2013
13	50436	38583	0	0	192	10/28/2013	10/29/2013
14	50715	85575	0	0	190	10/29/2013	10/30/2013
15	50739	81481	0	0	168	10/29/2013	10/30/2013
16	50914	75393	0	0	171	10/30/2013	10/31/2013
17	51426	87371	0	0	163	11/4/2013	11/5/2013
18	51623	47499	0	0	179	11/5/2013	11/6/2013
19	51656	84269	0	0	187	11/5/2013	11/6/2013
20	51680	52627	0	0	184	11/5/2013	11/6/2013
21	51759	55733	0	0	177	11/6/2013	11/7/2013
22	51852	48937	0	0	171	11/6/2013	11/7/2013
23	52153	66303	0	0	164	11/7/2013	11/8/2013
24	52160	78508	0	0	199	11/7/2013	11/8/2013
25	52374	89925	0	0	203	11/8/2013	11/9/2013
26	52321	45165	0	0	171	11/8/2013	11/9/2013
27	52435	52639	0	0	186	11/9/2013	11/10/2013
28	52645	38886	0	0	170	11/12/2013	11/13/2013
29	52655	84036	0	0	198	11/12/2013	11/13/2013
30	52709	61426	0	0	202	11/12/2013	11/13/2013
31	52753	37981	0	0	173	11/12/2013	11/13/2013
32							

Query Settings

PROPERTIES

NameFactSale

All Properties

APPLIED STEPS

Source

Promoted Headers

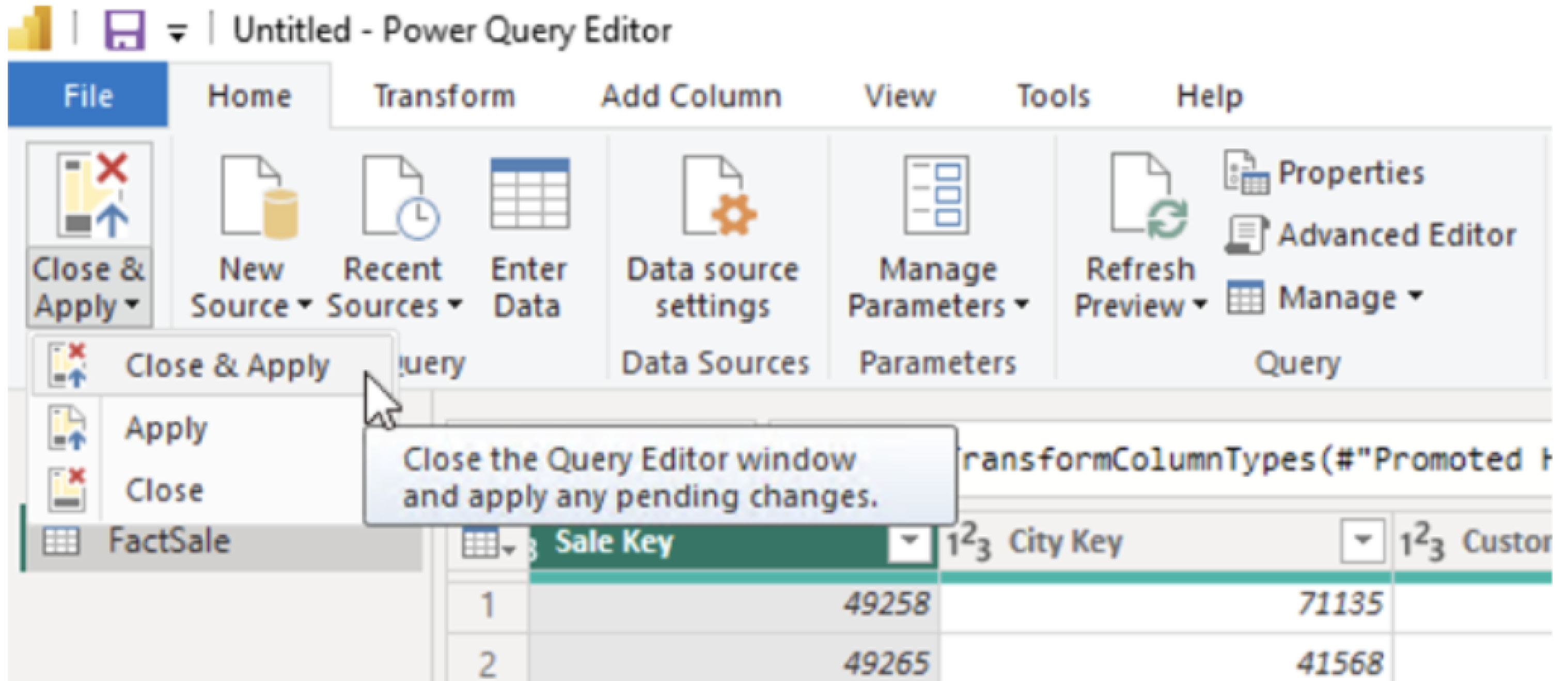
Changed Type

21 COLUMNS, 999+ ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:13 PM

# Don't forget to Close & Apply



The screenshot shows the Power Query Editor window titled "Untitled - Power Query Editor". The ribbon includes tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Home tab is active, displaying icons for Close & Apply, New Source, Recent Sources, Enter Data, Data source settings, Manage Parameters, Refresh Preview, Properties, Advanced Editor, and Manage. The 'Close & Apply' dropdown menu is open, showing three options: 'Close & Apply' (with a red X and blue up arrow), 'Apply' (with a blue up arrow), and 'Close' (with a red X). A tooltip points to the 'Close & Apply' option, stating: "Close the Query Editor window and apply any pending changes." Below the ribbon, a table is visible with columns 'Sale Key', 'City Key', and 'Custor'. The 'Sale Key' column is highlighted in green. The table contains two rows of data:

	Sale Key	City Key	Custor
1	49258	71135	
2	49265	41568	

# Let's practice!

INTRODUCTION TO POWER BI



# Power Query Editor

INTRODUCTION TO POWER BI



**Iason Prassides**

Content Developer, DataCamp

# Let's practice!

INTRODUCTION TO POWER BI

# Transforming and formatting columns

INTRODUCTION TO POWER BI



**Iason Prassides**

Content Developer, DataCamp

# Let's practice!

INTRODUCTION TO POWER BI