

Transforming data

INTRODUCTION TO POWER BI



Lis Sulmont

Curriculum Manager, 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	

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	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	

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	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	

Load Transform Data Cancel

Power Query Editor

The screenshot displays the Power Query Editor window. The ribbon at the top includes tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Transform tab is active, showing various data manipulation options. The main area contains a table with the following columns: Sale Key, City Key, Customer Key, Bill To Customer Key, and Stock Item. The table has 22 rows of data. The right-hand pane shows the Query Settings for 'FactSale', including the Name and a list of applied steps: Source, Promoted Headers, and Changed Type. The status bar at the bottom indicates '21 COLUMNS, 999+ ROWS' and 'Column profiling based on top 1000 rows'.

	Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item
1	49258	71135	0	0	
2	49265	41568	0	0	
3	49456	70409	0	0	
4	49372	48937	0	0	
5	49624	41981	0	0	
6	49635	70510	0	0	
7	49908	66274	0	0	
8	50034	44106	0	0	
9	50190	56014	0	0	
10	50487	79969	0	0	
11	50367	81342	0	0	
12	50379	91464	0	0	
13	50436	38583	0	0	
14	50715	85575	0	0	
15	50739	81481	0	0	
16	50914	75393	0	0	
17	51426	87371	0	0	
18	51623	47499	0	0	
19	51656	84269	0	0	
20	51680	52627	0	0	
21	51759	55733	0	0	
22	51852	48937	0	0	

Don't forget to Close & Apply

Untitled - Power Query Editor

File Home Transform Add Column View Help

Close & Apply New Recent Enter Data Data source settings Manage Parameters Refresh Preview Properties Advanced Editor Manage Choose Columns

Close & Apply Apply Close

Close the Query Editor window and apply any pending changes.

= Table.TransformColumnTypes(#"Changed Type",

	Cost of living	Crime	Culture	Health
1	19	21	10	12
2	25	22	15	10
3	12	4	31	8

Let's practice!

INTRODUCTION TO POWER BI

Power Query Editor

INTRODUCTION TO POWER BI



Lis Sulmont

Curriculum Manager, DataCamp

Let's practice!
INTRODUCTION TO POWER BI

Transforming and formatting columns

INTRODUCTION TO POWER BI



Lis Sulmont

Curriculum Manager, DataCamp

Let's practice!
INTRODUCTION TO POWER BI