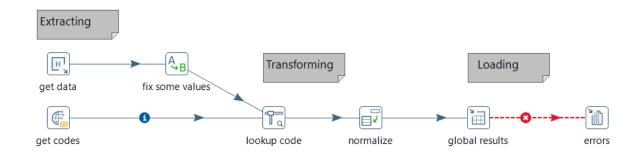
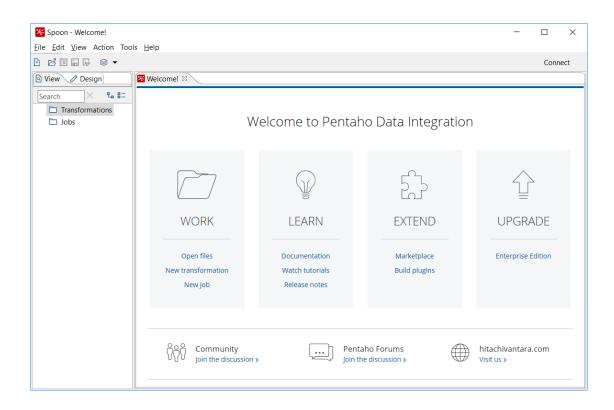
# **Chapter 1: Getting Started with PDI**

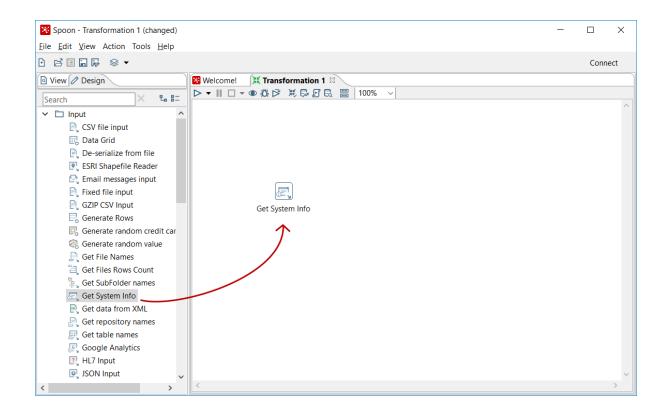


SOURCE FORGE		пу, кненд-ренкано, г	Articles		Storage	Business VolP	
Summary	Files	Reviews	Support	Wiki	News	Donate 🗹	
Download Lat		Get Updates				٣	
Home / Data Integratio	on 🤨						
Name 🖨			Modified 🖨	Size 🖨	Dowi	nloads / Week 🖨	
Parent folder	<b>`</b>						
<b>7.1</b>			2017-05-22	2		3,199 🔼	
7.0			2016-11-09	2		229	
<b>6.1</b>			2016-04-13	3		264	
<u>6.0</u>			2015-12-10	)		127	



Kettle Options		×
General Look & Feel		
Preview data batch size:	1000	
Max number of lines in the logging windows:	5000	-
Central log line store timeout in minutes:	720	
Max number of lines in the log history views:	50	
Show welcome page at startup:		
Use database cache:	2	
Open last file at startup:	2	
Autosave changed files:		
Only show the active file in the main tree:		
Only save used connections to XML:		
Replace existing objects on open/import:		
Ask before replacing objects:		
Show Save dialog:		
Automatically split hops:		
Show Copy or Distribute dialog:		
Show repository dialog at startup:		
Ask user when exiting:		
Clear custom parameters (steps/plugins):	O	
Auto collapse palette tree:		
Display tooltips:		
Show help tooltips:		
	<u>O</u> K <u>C</u> ancel	

Kettle Options			×
General Look & Feel			
Fixed width font:	Courier - 9	Ø	Q
Font on workspace:	Segoe UI - 9	0	C
Font for notes:	Segoe UI - 9	Ø	S
Background color:		Ø	C
Workspace background color:		Ø	C
Tab color:		0	C
Icon size in workspace:	32		
Line width on workspace:	1		
Shadow size on workspace:	0		
Dialog middle percentage:	35		
Canvas Grid Size:	16		
Show Canvas Grid:			
Canvas anti-aliasing:			
Show bottleneck transformation steps:			
Use look of OS: [			
Show branding graphics:			
Preferred Language:	English (US)		$\sim$
Alternative Language:			~
	<u>O</u> K <u>C</u> ancel		

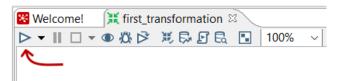


æ,	Get System Data			_	×
	Step na	me Get System In	fo		
Field	ds:				
#	Name	Туре			
1	pdi_version	Kettle version			
0	Help <u>O</u> K	<u>P</u> review	rows	<u>C</u> ancel	



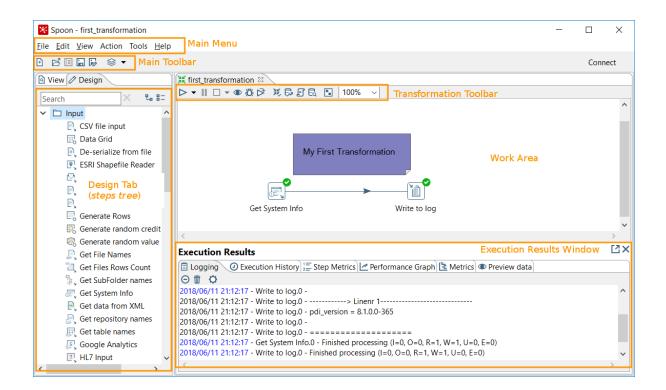


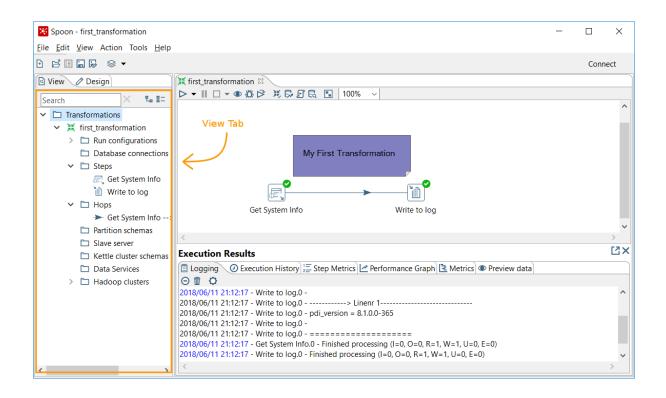
🔀 Spoon - Transformation 1 (	changed) —		×
<u>File Edit View</u> Action Too	is <u>H</u> elp		
		Conne	ect
🔄 View 🖉 Design	🔀 Welcome! 🛛 🗮 Transformation 1 🖾		
	▶ ▾    □ ▾ ● 炎 ▷ 淋 등 ☞ 昆 畾 100% ∨		
			^
<ul> <li>Output</li> <li>Streaming</li> </ul>	My First Transformation		
Transform			
> 🗅 Utility			
Scripting			
Pentaho Server	Get System Info Write to log		
Lookup			
🗅 Joins			
🗀 Data Warehouse			
Validation			
Statistics			× *
🗖 Big Data 💙	<		>



Execution Results	Ľ×
🔳 Logging 🕐 Execution History 🚛 Step Metrics 🗹 Performance Graph 🗈 Metrics 👁 Preview data	
2018/05/27 16:22:20 - Spoon - Launching transformation [sample_81]	^
2018/05/27 16:22:20 - Spoon - Started the transformation execution.	
2018/05/27 16:22:21 - sample_81 - Dispatching started for transformation [sample_81]	
2018/05/27 16:22:21 - Get System Info.0 - Finished processing (I=0, O=0, R=1, W=1, U=0, E=0)	
2018/05/27 16:22:21 - Write to log.0 -	
2018/05/27 16:22:21 - Write to log.0> Linenr 1>	
2018/05/27 16:22:21 - Write to log.0 - pdi_version = 8.1.0.0-365	
2018/05/27 16:22:21 - Write to log.0 -	
2018/05/27 16:22:21 - Write to log.0 - ===================================	
2018/05/27 16:22:21 - Write to log.0 - Finished processing (I=0, O=0, R=1, W=1, U=0, E=0)	
2018/05/27 16:22:21 - Spoon - The transformation has finished!!	~

# **Chapter 2: Getting Familiar with Spoon**





P,	CSV Input								_		×
		Ste	ep name c	ities							
			Filename C	:\Pentaho\p	odi_ce_8.1\san	nples\transfo	rmations\file	s∖Zipssorte	edbycitystate.cs	v	Browse
		I	Delimiter 🗍							٩	Insert <u>T</u> AB
		E	Enclosure "								\$
		NIO b	uffer size 5	0000							\$
		Lazy cor	nversion? 🗸								
		Header row	present? 🗸								
		Add filename	to result								
	The row r	number <mark>f</mark> ield name (c	optional)								\$
		Running in	parallel?								
		New line possible	in fields? 🗌								
		File e	ncoding								✓ ♦
÷	Name	Туре	Format	Length	Precision	Currency	Decimal	Group	Trim type		
1	CITY	String							none		
2	STATE	String							none		
3	POSTALCODE	String							none		
0	) Help		<u>O</u> K	<u>G</u> et	Fields <u>P</u>	review	<u>C</u> ancel				

	of step: cities (1000 rows)			
#^	CITY	STATE	POSTALCODE	^
1	ABBEVILLE	AL	36310	
2	ABBEVILLE	LA	70510	
3	ABBEVILLE	MS	38601	
4	ABBOT	ME	4406	
5	ABBOTT	TX	76621	
6	ABBYVILLE	KS	67510	
7	ABERCROMBIE	ND	58001	
8	ABERDEEN	KY	42201	
9	ABERDEEN	MS	39730	
10	ABERDEEN	OH	45101	
11	ABERDEEN	SD	57402	
12	ABERDEEN PROVING GROUND	MD	21005	~
<			>	



Filter rows	- 0	×
Step name	Filter NY	
Send 'true' data to step:		~
Send 'false' data to step:		~
The condition:		
STATE =		+
1 Help	<u>O</u> K <u>C</u> ancel	



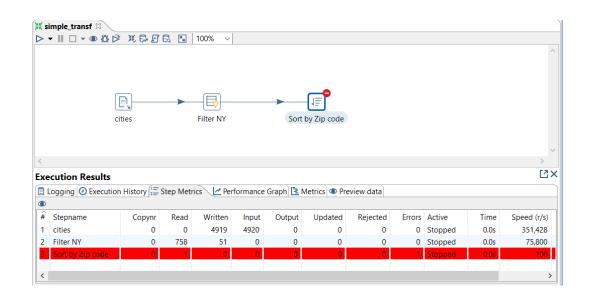
	Copynr	0	*	Examine preview dat	a	—	×
	Read	18708	Roy	ws of step: Filter NY (1	000 rows)		
	Written	1001	<del>-</del>			2007110025	^
	Input	0	#	CITY	STATE	POSTALCODE	
	Output	0	1	ACRA	NY	12405	
	Updated	0	2	ADAMS	NY	13605	
	Rejected	0	3	ADAMS CENTER	NY	13606	
	Errors	0	4	ADIRONDACK	NY	12808	
	Active	Paused	5	AKRON	NY	14001	
	Time	0.1s	6	ALABAMA	NY	14003	
	Speed (r/s)	147,307	7	ALBANY	NY	12201	
•	input/output	2671/0	8	ALBANY	NY	12203	
			9	ALBANY	NY	12205	
			1	ALBANY	NY	12207	~
cities	Filter N	Y					•
				Close	Stop	Get more row	5

Pentaho local	~					
Options						_
Clear log bef	ore running	Log level:	Basic		$\sim$	
Enable safe r Gather perfor			Nothing Error Minimal			
			Basic			
Parameters Var	iables		Detailed Debug		-	
Parameter	Default value	Value		(very detaile	d)	
				Arg	ument	ts (legacy

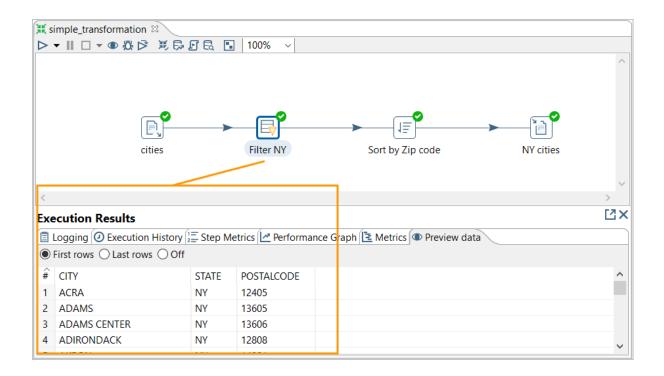
Exe	cution Resu	ults											[2]
Ē	Logging 🕗 Exe	ecution Histo	ory 🗄 Step	Metrics	Perform	ance Graph	Metrics	Preview da	ta				
۲													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	cities	0	0	21379	21380	0	0	0	0	Finished	0.0s	791,852	-
2	Filter NY	0	21379	1146	0	0	0	0	0	Finished	0.1s	305,414	-



11	Sort rows							×
		Step na	ame Sort	by Zip code				
		Sort direc	tory %%ja	ava.io.tmpdir%%			\$	Browse
		TMP-file p	refix out					
	Sort siz	ze (rows in mem	ory) 1000	000				٩
	Free men	nory threshold (i	in %)					\$
	C	Compress TMP Fi	les? 🛛					\$
Field	Only pass unique	e rows? (verifies	keys 🗌					
÷	Fieldname	Ascending	Case sens	itive compare?	Sort based on	current locale?	Collator	Strength
1	ZIPCODE	Y						_
L								
<								>
0	Help		<u>O</u> K	<u>C</u> ancel	<u>G</u> et Fields	]		



Execution Results	Ľ×
🗄 Logging 🕜 Execution History 🔚 Step Metrics 🗹 Performance Graph 🗈 Metrics 👁 Preview data	
O D Construction of the co	^
2018/06/11 22:08:14 - Sort by Zip code.0 - ERROP. (version 8: 1.0.0-365, build 8:1.0.0-365 from 2018-04-30 09:42:24 by buildguy) - org pentaho.di.core. 2018/06/11 22:08:14 - Sort by Zip code.0 - The field ZIPCODE specified in the "Sort by Zip code" step is not in the steps input stream. 2018/06/11 22:08:14 - Sort by Zip code.0 -	exce
2018/06/11 22:08:14 - Sont by Zip Code.0 - 2018/06/11 22:08:14 - Sont by Zip Code.0 - at org.pentaho.di.trans.steps.sort.SontRows.processRow(SontRows.java:426) 2018/06/11 22:08:14 - Sont by Zip Code.0 - at org.pentaho.di.trans.step.RumThread.nun(RumThread.java:62)	~
٢	>



🗎 Text file out	put		_	×
	Step name NY cities			
File Content	Fields			
	Filename C:/Pentaho/da	ta/ny_cities		owse
Pass	output to servlet			
Cre	ate Parent folder 🗹			
Do not o	reate file at start			
Accept file	ame from field? 🗌			
	File name field			~ 🛛
	Extension txt			٩
Include ste	pnr in filename? 🔝			
Include partitio	n nr in filename? 🗌			
Include of	date in filename? 🗌			
Include ti	me in filename? 🗌			
Specify I	Date time format 🗌			
[] [	Date time format			$\sim$
	<u>S</u> how filename	e(s)		
Add fi	enames to result 🗹			
1 Help	<u>O</u> K	<u>C</u> ancel		

entaho local 🗸			
Options			
🗹 Clear log before running	Log level: Basic	$\sim$	
Enable safe mode			
Gather performance metrics			
arameters Variables			
Variable	Value		^
Variable FILENAME	Value		^
	Value file:///C:/Pentaho/project		
FILENAME			
FILENAME Internal.Entry.Current.Directory	file:///C:/Pentaho/project		
FILENAME Internal.Entry.Current.Directory Internal.Job.Filename.Directory	file:///C:/Pentaho/project Parent Job File Directory		
FILENAME Internal.Entry.Current.Directory Internal.Job.Filename.Directory Internal.Job.Filename.Name	file:///C:/Pentaho/project Parent Job File Directory Parent Job Filename	V	^
FILENAME Internal.Entry.Current.Directory Internal.Job.Filename.Directory Internal.Job.Filename.Name Internal.Job.Name	file:///C:/Pentaho/project Parent Job File Directory Parent Job Filename Parent Job Name	y	
FILENAME Internal.Entry.Current.Directory Internal.Job.Filename.Directory Internal.Job.Filename.Name Internal.Job.Name Internal.Job.Repository.Directory	tile:///C:/Pentaho/project Parent Job File Directory Parent Job Filename Parent Job Name Parent Job Repository Director	v	

Variable	Value	^
FILENAME	ny_cities	
Internal.Entry.Current.Directory	file:///C:/Pentaho/project	
Internal.Job.Filename.Directory	Parent Job File Directory	
Internal.Job.Filename.Name	Parent Job Filename	
Internal.Job.Name	Parent Job Name	
Internal.Job.Repository.Directory	Parent Job Repository Directory	
		~

🗎 Text file output	_			
Step name	NY cities			]
File Content Fields				]
Filename			Browse	
Pass output to servlet Create Parent folder Do not create file at start	java.class.version java.endorsed.dirs	^		of variable 'java.home' is : C:\Java\jdk1.8.0_151\jre
Accept file name from field?	java.home			
File name field Extension	java.io.tmpdir java.library.path java.naming.factory.initial		\$	
Include stepnr in filename? Include partition nr in filename?	iava.runtime.name	~		
Include date in filename?				
Include time in filename?				
Specify Date time format				

# 💥 Transformation properties

—

Tran	sformation Param	eters Logging Dates Dependencies Miscellaneous M	lonitoring
Para	ameters :		
#	Parameter	Default Value	Description
1	SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/files	

OK	SQL	Cancel	

# 💥 Run Options

F	Run configuration:				
	Pentaho local 🗸				
	Options				
	Clear log before running	Log level:	Basic	~	
	Enable safe mode				
	Gather performance metrics				
	Options ✓ Clear log before running □ Enable safe mode	Log level:	Basic	~	

Parameter	Default value	Value
SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/files	
<		2
	A	rguments (legacy

Always show dialog on run

⑦ Help

Run Cancel

– 🗆 X

Parameters Varia	bles	
Parameter	Default value	Value
SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/file	s c:/samplefiles
<		>
		Arguments (legacy)

# Chapter 3: Extracting Data

C:\dat	a\tomslee_airbnb_amsterdam_0025_2014-05-24.csv - Sublime Text	-		×
le <u>E</u> dit	Selection Find View Goto Tools Project Preferences Help			
• /	tomslee_airbnb_amsterdam_0025_2014-05-24.csv ×			
	room_id,host_id,room_type,borough,neighborhood,reviews,overall_satisfaction,accommodates,bedrooms,price,minstay,latitude,longitude	,last_	modifie	d
	2818,3159,Private room,,Oostelijk Havengebied / Indische Buurt,77,5.0,2,1.0,90.0,3,52.365755,4.941419,2014-05-24 14:44:31.832			
	6243,3813,Private room,,Oostelijk Havengebied / Indische Buurt,116,4.5,4,1.0,75.0,2,52.379212,4.926324,2014-05-24 17:16:02.491			
	15061,59297,Private room,,Westerpark,53,5.0,4,1.0,66.0,2,52.382685,4.87613,2014-05-24 20:01:54.098			
	15865,59484,Private room,,Centrum 0ost,1,5.0,4,1.0,151.0,3,52.363786,4.893392,2014-05-24 21:52:07.540			
	20168,59484,Private room,,Centrum 0ost,4,4.0,2,1.0,90.0,3,52.365087,4.893541,2014-05-24 20:36:24.643			
	20522,77484,Entire home/apt,,De Pijp / Rivierenbuurt,139,4.5,2,1.0,92.0,2,52.354818,4.888065,2014-05-24 15:46:47.530			
	22315,10378458,Entire home/apt,,Oud Oost,6,4.0,6,2.0,153.0,3,52.357946,4.916384,2014-05-24 15:48:44.487			
	23651,9616,Private room,,De Pijp / Rivierenbuurt,36,5.0,3,1.0,122.0,6,52.345911,4.891983,2014-05-24 17:16:35.801			
	25488,106225,Entire home/apt,,Oostelijk Havengebied / Indische Buurt,46,4.5,6,3.0,229.0,3,52.36501,4.943572,2014-05-24 18:25:26.16	4		
	27573,119217,Private room,,Centrum Oost,53,4.5,2,1.0,174.0,3,52.364293,4.897716,2014-05-24 22:09:41.484			
	27886,97647,Entire home/apt,,Centrum West,4,5.0,2,1.0,222.0,2,52.386727,4.892078,2014-05-24 20:01:26.468			
	28658,123414,Private room,,De Baarsjes / Oud West,161,4.5,4,1.0,92.0,2,52.374452,4.85798,2014-05-24 21:02:09.018			
	28871,124245,Private room,,Centrum Oost,1,5.0,2,1.0,115.0,2,52.366101,4.889528,2014-05-24 20:58:18.583			
	29051,124245,Private room,,Centrum Oost,58,5.0,1,1.0,84.0,2,52.366072,4.890999,2014-05-24 17:51:03.075			
16	29217 125667 Private room Noord-West / Noord-Midden 110 4 5 4 1 0 138 0 1 52 350371 4 885696 2014-05-24 15-31-22 158			
🔲 Line	1, Column 1 Tab Size:	4	Plain Te	xt

P, Text file input		- 0	×
	Step name	me amsterdam 0025_2014-05-24	
File Content Error Handling Filters Fields Additional of	output fields		
	File or directory	ory	rowse
Re	gular Expression	ion 🔶	
Exclude Re	eqular Expression	sion	
	Selected files:	les: # File/Directory Wildcard (RegExp) Exclude wildcard Re	
		1 c:/samples/amsterdam/tomslee_airbnb_amsterdam_0025_2014-05-24.csv N	Delete
1			
			<u>E</u> dit
		< >	
Accept filenames from previous steps			
Accept filenames fr	om previous step	step	
Pass through fields fro	om previous step	tep	
Step to rea	id filenames from	rom	$\sim$
Field in the input t	o use as filename	ame	
		Show filename(s) Show file content Show content from first data line	
		Zuon menomethin and The content and Zonene new matigation	
⑦ Help		QK Preview rows Cancel	

🖳 Text file input	- 🗆 ×
Step name	amsterdam 0025_2014-05-24
File Content Error Handling Filters F	ields Additional output fields
Filetype	CSV 🗸
Separator	, Insert <u>I</u> AB
Enclosure	•
Allow breaks in enclosed fields?	
Escape	
	Vumber of header lines 1
	Number of footer lines
Wrapped lines?	Number of times wrapped 1
Paged layout (printout)?	Number of lines per page 80
	Document header lines 0
Compression	None
No empty rows	

		Step name an	nsterdam 0025_2014-05-24			
<u> </u>	Content Error Handlir		Additional output fields			
Ê.		-		<b>D</b> 111		
	Name	Туре	Format	Position	Length	Precision
	room_id	Integer	#		15	0
-	host_id	Integer	#		15	0
	room_type	String			15	
	borough	String			0	
	neighborhood	String			38	
	reviews	Integer	#		15	0
7	overall_satisfaction	Number	#.#		3	1
	accommodates	Integer	#		15	0
	bedrooms	Number	#.#		3	1
	price	Number	#.#		5	1
	minstay	Integer	#		15	0
	latitude	Number	#.#		9	6
	longitude	Number	#.#		8	6
	last_modified	Date	yyyy-MM-dd HH:mm:ss.SSS			
:						
			Get Fields Minimal width			

	Content Error Handlin		Additional output f	1		
#	Name	Туре	Format	Position	Length	Precision
1	room_id	Integer	#		15	0
2	host_id	Integer	#		15	0
3	room_type	String			15	
4	borough	String			0	
5	neighborhood	String			38	
6	reviews	Integer	#		15	0
7	overall_satisfaction	Number	#.#		3	1
8	accommodates	Integer	#		15	0
9	bedrooms	Integer	#		3	1
1	price	Number	#.#		5	1
1	minstay	Integer	#		15	0
1	latitude	Number	#.#		9	6
1	longitude	Number	# #		8	6
1	date_of_survey	Date	yyyy-MM-dd			
<						
		<u>G</u> et Fields	<u>M</u> inimal w	ridth		

	or step, and	teruam 002.	5_2014-05-24 (1000	TOWS)											
¥	room_id	host_id	room_type	borou	neighborhood	reviews	overall_sa	accomm	bedrooms	price	minstay	latitude	longitude	date_of_survey	
	2818	3159	Private room	<null></null>	Oostelijk Havengebied / Indis	77	5	2	1	90	3	52.4	4.9	2014-05-24	
2	6243	3813	Private room	<null></null>	Oostelijk Havengebied / Indis	116	4.5	4	1	75	2	52.4	4.9	2014-05-24	
	15061	59297	Private room	<null></null>	Westerpark	53	5	4	1	66	2	52.4	4.9	2014-05-24	
ŧ.	15865	59484	Private room	<null></null>	Centrum Oost	1	5	4	1	151	3	52.4	4.9	2014-05-24	
	20168	59484	Private room	<null></null>	Centrum Oost	4	4	2	1	90	3	52.4	4.9	2014-05-24	
5	20522	77484	Entire home/apt	<null></null>	De Pijp / Rivierenbuurt	139	4.5	2	1	92	2	52.4	4.9	2014-05-24	
7	22315	10378458	Entire home/apt	<null></null>	Oud Oost	6	4	6	2	153	3	52.4	4.9	2014-05-24	
	23651	9616	Private room	<null></null>	De Pijp / Rivierenbuurt	36	5	3	1	122	6	52.3	4.9	2014-05-24	
	25488	106225	Entire home/apt	<null></null>	Oostelijk Havengebied / Indis	46	4.5	6	3	229	3	52.4	4.9	2014-05-24	
0	27573	119217	Private room	<null></null>	Centrum Oost	53	4.5	2	1	174	3	52.4	4.9	2014-05-24	
1	27886	97647	Entire home/apt	<null></null>	Centrum West	4	5	2	1	222	2	52.4	4.9	2014-05-24	
2	28658	123414	Private room	<null></null>	De Baarsjes / Oud West	161	4.5	4	1	92	2	52.4	4.9	2014-05-24	

File or directory			♦ <u>A</u> dd	Browse
Regular Expression			\$	
Exclude Regular Expression			\$	
Selected files:	# File/Directory	Wildcard (RegExp)	Exclude wildcard	
	1 C:\samples\amsterdam\tomslee_airbnb_amsterdam_0080_2015-01-19.cs	v		Delete
	2 C:\samples\amsterdam\tomslee_airbnb_amsterdam_0106_2015-03-17.cs	V		Delete
	3 C:\samples\amsterdam\tomslee_airbnb_amsterdam_0244_2015-12-16.cs	V		<u>E</u> dit
	<		>	

#	File/Directory	Wildcard (RegExp)	Exclude wildcard
1	<pre>\${samplefiles}\amsterdam/</pre>	tomslee_airbnb_amsterdam*_2015.*\.csv	Delete
	🔀 Files re	ad	- 🗆 X
<			Filter: [] Q
	Files read		
	file:///C:/	Pentaho/sampledata/amsterdam/tomslee_airbnb_am Pentaho/sampledata/amsterdam/tomslee_airbnb_am Pentaho/sampledata/amsterdam/tomslee_airbnb_am	nsterdam_0106_2015-03-17.csv
			Close
	ow filename(s) Show file o	ontent Show content from first data line	

$\leftarrow$ $\rightarrow$ <b>C</b> $\triangleq$ Seguro   https://cor	nsole.developers.google.com/api	is/api/drive.googleapis.com/overview?project 🕼 🖈 🛿 🕄 :
Google APIs 🔹 Sample	Project 🔻	a 😰 🛛 🔺 E 😩
	)verview 🔳 DI	SABLE API PROVIDE FEEDBACK
API APIs & Services         Billing         * Support         IAM & admin	<ul> <li>IAM</li> <li>Identity &amp; Organization</li> <li>Quotas</li> <li>Service accounts</li> <li>Labels</li> <li>Settings</li> <li>Cryptographic keys</li> <li>Identity-Aware Proxy</li> </ul>	Traffic by response code Request/sec (2 hr average)
Google Cloud Platform	Roles Audit Logs	

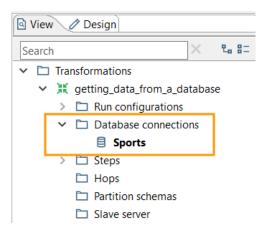
≡	Google APIs Sample	Project 🔻	۹	Ø	0	¢	:		
API	APIs & Services	Credentials							
¢	Dashboard	Credentials OAuth consent screen Domain verification							•
ш	Library	Create credentials - Delete							
0+	Credentials	API key Identifies your project using a simple API key to check guota and acc	2000	ition fo	or detail	s.			
		OAuth client ID Requests user consent so your app can access the user's data	.233						
		Service account key Enables server-to-server, app-level authentication using robot accour	nts	-					
		Help me choose Asks a few questions to help you decide which type of credential to u	use	rj3huc	hq2d6u	1rt45i.a	apps.go	ogleus	ć
<1					_				•

## Credentials

Credentials OAut	h consent screen Domair	verification		
Create credentials	▼ Delete			
Create credentials to	access your enabled APIs. R	efer to the API do	cumentation for details.	
OAuth 2.0 client IE	)s			$\sim$
Name	Creation date ~	Туре	Client ID	
other	Jun 17, 2018	Other	6	apps.googleusercontent.com 🖍 🗨

Database Connection				×	
General Advanced Options Pooling Clustering	Connection name: Sports Connection type:		Settings Host Name:		
	PostgreSQL Redshift Remedy Action Request System SAP ERP System SQLite SparkSQL Sybase Sybase SybaselQ Teradata UniVerse database Vertica	~	Iocalhost         Database Name:         sportsdb_sample         Port Number:         5432         Username:         postares		
	Access: Native (JDBC) ODBC JNDI Test Feature List Ex	cplore		ancel	

Database Explorer			×
			Ctions -
<ul> <li>Sports</li> <li>Schemas</li> <li>Tables</li> <li>addresses</li> <li>affiliation_phase</li> <li>affiliations</li> <li>affiliations_docu</li> <li>affiliations_even</li> <li>affiliations_med</li> <li>american_footb</li> <li>american_footb</li> <li>american_footb</li> </ul>	Preview first 100 Preview x Rows Row Count Show Layout DDL View SQL Truncate Table	>	^
american_footb	Data Profile		~
			<u>O</u> K



🖳 Table input					_		$\times$
Ste	p nar	ne Injuries					
Cor	nect	ion Sports		~	Edit	New	Wizard
SQL					Get SOL	select st	atement
<pre>SELECT full_name , injury_type , to_char(start_date_time, ' </pre>	Row	Examine preview data s of step: Injuries (53 i			_		× •
FROM injury_phases i JOIN display_names n ON i.person id = n.id	#	full_name	injury_type	injury_date			^
AND entity_type = 'persons'	1	Adam Jones	calf	2007-07-31			
AND start_date_time BETWEEN ORDER BY full_name	2	Adrian Beltre	shoulder	2007-07-29			
, injury_type	3	Adrian Gonzalez	hamstring	2007-07-28			
	4	Alex Lewis	pectoral	2007-07-31			
	5	Andy LaRoche	elbow	2007-07-21			
	6	Barry Bonds	lower-back	2007-07-15			
	7	Ben Eager	knee	2007-07-26			
	8	Brian Dawkins	knee	2007-07-31			
	9	Brian Giles	wrist	2007-07-08			
<	10	Chad Johnson	knee	2007-07-30			
Line 1 Column 0	11	Chad Qualls	lower-back	2007-07-29			-
Enable lazy co	12	Chase Headley	elbow	2007-07-05			
Replace variables i	13	CJ Wilson	hamstring	2007-07-19			<u> </u>
Insert data fr		·· ·					•
Execute for ea			Close	Show Log			
Lir	mit si	ze 0					•
Help		OK Pre	view Cancel				

¥	Step fields and	l their orig	in		_	$\Box$ ×
Step	o name: Injurie	es				
Field	ds:					
#	Fieldname	Туре	Length	Precision	Step origin	Storage
1	full_name	String	100	-	Injuries	normal
2	injury_type	String	100	-	Injuries	normal
3	injury_date	String	2147483647	-	Injuries	normal
<						>
	amsterdam	0025_2014-0	lit origin step	Cancel		
	ar, Ge	t System Dat	ta		- 0	×
		Step	name today			
	Fields:		-1			
	₩ N	ame Type	e			

lov	/s of ste	ep: today (	1000 rows)													_
<b>#</b>	roo	host_id	room_type	bo	neighborhood	reviews	ov	acco	be	price	m	latit	longi	last_modified	today	٦
1	2818	3159	Private ro	<	Oostelijk Haven	77	5.0	2	1.0	90.0	3	52.3	4.94	2014-05-24 14:	2018/06/18 10:41:11.920	
2	6243	3813	Private ro	<	Oostelijk Haven	116	4.5	4	1.0	75.0	2	52.3	4.92	2014-05-24 17:	2018/06/18 10:41:11.920	
3	150	59297	Private ro	<	Westerpark	53	5.0	4	1.0	66.0	2	52.3	4.87	2014-05-24 20:	2018/06/18 10:41:11.920	
4	158	59484	Private ro	<	Centrum Oost	1	5.0	4	1.0	151.0	3	52.3	4.89	2014-05-24 21:	2018/06/18 10:41:11.920	
5	201	59484	Private ro	<	Centrum Oost	4	4.0	2	1.0	90.0	3	52.3	4.89	2014-05-24 20:	2018/06/18 10:41:11.920	
6	205	77484	Entire ho	<	De Pijp / Rivier	139	4.5	2	1.0	92.0	2	52.3	4.88	2014-05-24 15:	2018/06/18 10:41:11.920	
7	223	10378	Entire ho	<	Oud Oost	6	4.0	6	2.0	153.0	3	52.3	4.91	2014-05-24 15:	2018/06/18 10:41:11.920	
8	236	9616	Private ro	<	De Pijp / Rivier	36	5.0	3	1.0	122.0	6	52.3	4.89	2014-05-24 17:	2018/06/18 10:41:11.920	
9	254	106225	Entire ho	<	Oostelijk Haven	46	4.5	6	3.0	229.0	3	52.3	4.94	2014-05-24 18:	2018/06/18 10:41:11.920	
1	275	119217	Private ro	<	Centrum Oost	53	4.5	2	1.0	174.0	3	52.3	4.89	2014-05-24 22:	2018/06/18 10:41:11.920	

Preview rows

Cancel

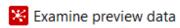
1 today

⑦ Help

system date (fixed)

ОК

\$	Get Variable						_		,
		Step name PDI in	nfo						
Fiel	ds:								
#	Name	Variable		Туре	Format	Length	Precision	Currency	
1	PDI_VERSION	\${Internal.Kettle.Version	}	String					
2	PDI_BUILD_VERSION	\${Internal.Kettle.Build.Ve	ersion}	String					
3	PDI_BUILD_DATE	\${Internal.Kettle.Build.D	ate}	String					
<									>
0		OK	Preview	Get variables	Cancel				
0	) Help	<u> </u>	7	2111000000	241100				



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Rows of step: PDI info (1 rows)

#	PDI_VERSION	PDI_BUILD_VERSION	PDI_BUILD_DATE	
1	8.1.0.0-365	8.1.0.0-365	2018-04-30 09.42.24	

Close

Show Log

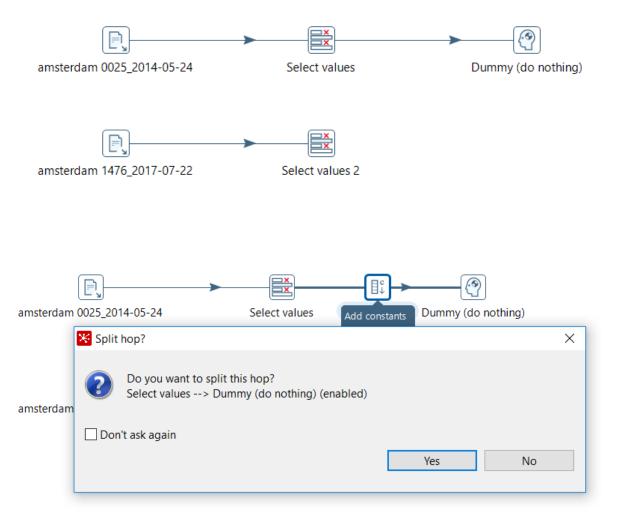
	Select / Rename values	5					_		×
		Step name	Select va	alues					
Sele	ct & Alter Remove	Meta-data							
Fiel	ds :								
#	Fieldname	Rename to	Length	Precision			Get	fields to	select
1	room_id	ID						Edit Ma	pping
2	room_type								
3	neighborhood								
4	accommodates								
5	overall_satisfaction								
6	price								
Incl	ude unspecified fields,	ordered by nam	e 🗌						
0	Help			<u>O</u> K	<u>C</u> ancel				

	o name: Select values ds:					
<b>#</b>	Fieldname	Туре	Length	Precision	Step origin	Storage
1	ID	String	-	-	Select values	normal
2	room_type	String	-	-	amsterdam 0025_2014-05-24	normal
3	neighborhood	String	-	-	amsterdam 0025_2014-05-24	normal
4	accommodates	String	-	-	amsterdam 0025_2014-05-24	normal
5	overall_satisfaction	String	-	-	amsterdam 0025_2014-05-24	normal
6	price	String	-	-	amsterdam 0025_2014-05-24	normal
<						

٥٧ 4	· ·		· · · · · ·				/
#	ID	room_type	neighborhood	accommodates	overall_satisfaction	price	í í
1	2818	Private room	Oostelijk Havengebied / Indische Buurt	2	5.0	90.0	
2	6243	Private room	Oostelijk Havengebied / Indische Buurt	4	4.5	75.0	
3	15061	Private room	Westerpark	4	5.0	66.0	
4	15865	Private room	Centrum Oost	4	5.0	151.0	
5	20168	Private room	Centrum Oost	2	4.0	90.0	
6	20522	Entire home/apt	De Pijp / Rivierenbuurt	2	4.5	92.0	
7	22315	Entire home/apt	Oud Oost	6	4.0	153.0	
8	23651	Private room	De Pijp / Rivierenbuurt	3	5.0	122.0	
9	25488	Entire home/apt	Oostelijk Havengebied / Indische Buurt	6	4.5	229.0	
1	27573	Private room	Centrum Oost	2	4.5	174.0	

	Step name	Select value	as 2	
		Select value		
elect & Alter Remove	e Meta-data			
ields :				
Fieldname	Rename to	Length	Precision	Get fields to sele
1 room_id	ID			Edit Mappir
2 room_type				
3 neighborhood				
4 accommodates				
5 overall_satisfaction				
6 price				
7 name	description			
nclude unspecified field	ds, ordered by name			

л	vs of step:	Select values (1000 ro	ows)				
ŧ	ID	room_type	neighborhood	accommodates	overall_satisfaction	price	1
	2818	Private room	Oostelijk Havengebied / Indische Buurt	2	5.0	90.0	
	6243	Private room	Oostelijk Havengebied / Indische Buurt	4	4.5	75.0	
	15061	Private room	Westerpark	4	5.0	66.0	
	15865	Private room	Centrum Oost	4	5.0	151.0	
	20168	Private room	Centrum Oost	2	4.0	90.0	
	20522	Entire home/apt	De Pijp / Rivierenbuurt	2	4.5	92.0	
	22315	Entire home/apt	Oud Oost	6	4.0	153.0	
	23651	Private room	De Pijp / Rivierenbuurt	3	5.0	122.0	
	25488	Entire home/apt	Oostelijk Havengebied / Indische Buurt	6	4.5	229.0	
	27573	Private room	Centrum Oost	2	4.5	174.0	



₿¢	Add constant v	values								_		×
			Step nam	e Add de	scription							
Fiel	ds :											
#	Name	Туре	Format	Length	Precision	Currency	Decimal	Group	Value	Set e	mpty strin	g?
1	description	String							not available			
					01/	<b>C</b>						
0	Help				<u>O</u> K	<u>C</u> ance						

lov	ws of step: D	ummy (do nothin	g) (1000 rows)					
#	ID	room_type	neighborhood	accom	overall_sat	price	description	
4	19856912	Entire home/a	Noord-West / Noord-Midden	4	0.0	348.0	Lovely apartment in the popular 'Oud-Zuid' area	
4	16141714	Entire home/a	Noord-West / Noord-Midden	5	5.0	330.0	Typical Amsterdam Apartment In Very Desirable Area	
4	17991138	Entire home/a	Noord-West / Noord-Midden	4	0.0	348.0	Designer Retreat	
4	17754722	Entire home/a	De Baarsjes / Oud West	6	0.0	488.0	Family Home in central Amsterdam	
4	16213448	Entire home/a	Noord-West / Noord-Midden	4	4.5	354.0	Museum Quarter residence (4p)	
5	19278851	Entire home/a	Noord-West / Noord-Midden	4	0.0	330.0	Elegant Modern Loft with Garden in Museum District	
5	2818	Private room	Oostelijk Havengebied / Indisch	2	5.0	90.0	not available	
5	6243	Private room	Oostelijk Havengebied / Indisch	4	4.5	75.0	not available	
5	15061	Private room	Westerpark	4	5.0	66.0	not available	
5	15865	Private room	Centrum Oost	4	5.0	151.0	not available	
<								>

# **Chapter 4: Transforming Data**

R	Field splitter											_		<
			S	tep name	Split Ci	ty								
			Fie	ld to split	City									$\sim$
				Delimite	r,									\$
				Enclosure	9									٩
Fiel	ds													_
÷	New field	ID	Remove ID?	Туре	Length	Precision	Format	Group	Decimal	Currency	Nullif	Default	Trim type	e
1	city_name		Ν	String									both	
2	country_name		Ν	String									both	
0	Help					<u>O</u> K	<u>C</u> ano	el.						

## 🔀 Examine preview data

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Rows of step:	Split City (	193 row
---------------	--------------	---------

#	Rank	city_name	country_name	Cost_of_Li	Rent_Index	Cost_of_Livin	Groceries	Restaurant_P	Local_Purchas	
	1	Zurich	Switzerland	141.25	66.14	105.03	149.86	135.76	142.70	
2	2	Geneva	Switzerland	134.83	71.70	104.38	138.98	129.74	130.96	
8	3	Basel	Switzerland	130.68	49.68	91.61	127.54	127.22	139.01	
ŀ	4	Bern	Switzerland	128.03	43.57	87.30	132.70	119.48	112.71	
5	5	Lausanne	Switzerland	127.50	52.32	91.24	126.59	132.12	127.95	
	6	Reykjavik	Iceland	123.78	57.25	91.70	118.15	133.19	88.95	
	7	Stavanger	Norway	118.61	39.83	80.61	106.09	143.54	118.14	
3	8	Lugano	Switzerland	118.24	52.91	86.73	117.74	122.30	119.86	
)	9	Oslo	Norway	117.23	49.28	84.46	112.42	124.09	102.94	
	10	Trondheim	Norway	114.22	42.39	79.58	103.50	134.76	108.29	

## Regex Evaluation

Step name	Split Food
Settings Content	
Step settings	
Field to evaluate	e Food
Result field nam	e result
Replace previous fields	
Regular expression :	Test regEx
(.+)\(([0-9.]+)( liter  g  kg  head )	`).*
	~
<	>
Use variable substitution	
Capture Group Fields	

#	New field	Туре	Length	Precision	Format	Group	Decimal	Currency	Null If	Default	Trim
1	food_name	String									both
2	quantity	Number			#.#						both
3	unit	String								n/a	both

⑦ Help

<u>O</u>K <u>C</u>ancel

## 🔀 Examine preview data

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Rows of step: Split Food (14 rows)

#	Food	Price	result	food_name	quantity	unit	^
1	Milk (regular), (0.25 liter)	.19€	Υ	Milk (regular),	0.2	liter	
2	Loaf of Fresh White Bread (125.00 g)	.24 €	Υ	Loaf of Fresh White Bread	125	g	
3	Rice (white), (0.10 kg)	.09 €	Υ	Rice (white),	0.1	kg	
4	Eggs (regular) (2.40)	.33€	Υ	Eggs (regular)	2.4	n/a	
5	Local Cheese (0.10 kg)	.89 €	Υ	Local Cheese	0.1	kg	
6	Chicken Breasts (Boneless, Skinless), (0.15	.86 €	Υ	Chicken Breasts (Boneless, Skinless),	0.1	kg	
7	Beef Round (0.15 kg) (or Equivalent Back	1.52 €	Υ	Beef Round	0.1	kg	
8	Apples (0.30 kg)	.47 €	Υ	Apples	0.3	kg	~

#### Calculator

—  $\times$ 

	ds:								
#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove
1	two	Set field to constant value A	2			Integer			N
2	temp	A + B	Groceries_Index	Restaurant_Price_Index		Number			N
3	food_index	A / B	temp	two		Number			Ν
<									

🔀 Examine	preview	data
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<del>#</del>	Pank	city name	country name	Cost of L	Pont Index	Cost of Li	Groceries Index	Restaurant Price Index	Local Purc.	two	temp	food index
π.	Marik	city_name	country_name		-		_		-	two		-
1	1	Zurich	Switzerland	141.25	66.14	105.03	149.86	135.76	142.7	2	285.62	142.81
2	2	Geneva	Switzerland	134.83	71.7	104.38	138.98	129.74	130.96	2	268.72	134.36
3	3	Basel	Switzerland	130.68	49.68	91.61	127.54	127.22	139.01	2	254.76	127.38
4	4	Bern	Switzerland	128.03	43.57	87.3	132.7	119.48	112.71	2	252.18	126.09
5	5	Lausanne	Switzerland	127.5	52.32	91.24	126.59	132.12	127.95	2	258.71	129.355
6	6	Reykjavik	Iceland	123.78	57.25	91.7	118.15	133.19	88.95	2	251.34	125.67
7	7	Stavanger	Norway	118.61	39.83	80.61	106.09	143.54	118.14	2	249.63	124.815
8	8	Lugano	Switzerland	118.24	52.91	86.73	117.74	122.3	119.86	2	240.04	120.02

<u>C</u>lose

User Defined Java Expression \_  $\times$ Step name food\_index

Fields:											
1	₩ Ne	ew field	Java expression	Value type	Length	Precision	Replace value				
	1 fo	od_index	(Groceries_Index + Restaurant_Price_Index)/2	Number							

⑦ Help

<u>0</u>K <u>C</u>ancel

1Ē	Sort rows							-		×
		Step r	name So	rt rows						
		Sort dire	ctory %9	%java.io.tmpdir%	%				۹	Browse
		TMP-file p	orefix ou	t						
	Sort si	ze (rows in men	mory) 10	00000						Ś
		mory threshold								·
		-		 7						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Compress TMP Files? 🔶										
Fiel		,								
#	Fieldname	Ascending	Case ser	nsitive compare?	Sort	based on curre	ent locale?	Collator Strength	Pre	sorted?
1	neighborhood	Υ	N		Ν			0	Ν	
2	room_type	Υ	N		Ν			0	Ν	
3	reviews	N	N		N			0	Ν	
0	Help	E			ncel	<u>G</u> et Fields	Sel	ect values		
X	Select / Rename valu	ies Step n		lect values				_		×

_						
Sele	ect & Alter Remove	e Meta-data				
Fiel	ds :					
#	Fieldname	Rename to	Length	Precision		Get fields to select
1	neighborhood					Edit Mapping
2	room_type					11 5
3	reviews					
In	clude unspecified fiel	lds, ordered by na	ame 🗹 🗧 🗧			
0				<u>O</u> K	Cancel	
0	Help					

#### - $\Box$ $\times$

Rows of step: Select values (1000 rows)

#	neighborhood	room_type	reviews	accommodates	bedrooms	borough	host_id	^
1	Bijlmer Centrum	Entire home/apt	0	2	0	<null></null>	29106854	
2	Bijlmer Centrum	Private room	0	2	1	<null></null>	26258715	
3	Bijlmer Centrum	Private room	0	3	1	<null></null>	26258715	
4	Bos en Lommer	Entire home/apt	308	2	0	<null></null>	732783	
5	Bos en Lommer	Entire home/apt	265	2	0	<null></null>	732783	
6	Bos en Lommer	Entire home/apt	255	2	0	<null></null>	732783	
7	Bos en Lommer	Entire home/apt	243	2	0	<null></null>	732783	
8	Bos en Lommer	Entire home/apt	197	2	0	<null></null>	732783	~
<			1				>	

<u>C</u>lose <u>S</u>top Get <u>m</u>ore rows

🔀 Examine preview data

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Rows of step: Sort rows by neighborhood (21 rows)

#	room_id	host_id	room_type	borough	neighborhood	reviews	^
1	5084344	26258715	Private room	<null></null>	Bijlmer Centrum	0	
2	41075	178227	Entire home/apt	<null></null>	Bos en Lommer	26	
3	78188	415830	Entire home/apt	<null></null>	Buitenveldert / Zuidas	41	
4	20168	59484	Private room	<null></null>	Centrum Oost	13	
5	25428	56142	Entire home/apt	<null></null>	Centrum West	0	
6	107326	556149	Entire home/apt	<null></null>	De Aker / Nieuw Sloten	29	
7	8061	21669	Entire home/apt	<null></null>	De Baarsjes / Oud West	2	
8	23651	9616	Private room	<null></null>	De Pijp / Rivierenbuurt	36	
9	5679466	16387533	Entire home/apt	<null></null>	Gaasperdam / Driemond	0	
1	105546	538768	Private room	<null></null>	Geuzenveld / Slotermeer	48	~
<					1	3	>

BΣ	Group By					-		$\times$
		Step name	Group by o	country				
	Incl	ude all rows?						
	Temporary	files directory	%%java.io.	tmpdir%%			<b>()</b>	<u>B</u> rowse
	TI	VIP-file prefix	grp					
	Add line number, restart	in each group						
	Line numb	er field name						
The	Always give bac fields that make up the grou							
#	Group field						Ge	et Fields
1	country_name							
Ago	gregates :							
#	Name	Subject		Туре	Value	Ge	t looku	p fields
1	cities	ties city_name		Concatenate strings separated by ,				
2	avg_Cost_of_Living_Index	avg_Cost_of_Living_Index Cost_of_Livi		Average (Mean)				
0	Help			OK Cancel				

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Rows of step: Sort rows by country (193 rows)

#	Rank	city_name	country_name	Cost_of_Living_Index	Rent_Index	^
1	177	Tirana	Albania	39.33	9.96	
2	21	Linz	Austria	89.33	29.43	
3	55	Graz	Austria	80.59	24.94	
4	67	Vienna	Austria	78.64	35.04	
5	185	Minsk	Belarus	35.30	11.25	
6	24	Antwerp	Belgium	88.20	<mark>28.06</mark>	
7	33	Leuven	Belgium	85.31	<mark>29.48</mark>	
8	34	Gent	Belgium	85.16	<mark>26.92</mark>	
9	41	Brussels	Belgium	83.65	<mark>35.76</mark>	
1	162	Sarajevo	Bosnia And Herzegovina	42.50	10.13	~
<						>

Rows of step: Group by country (40 rows)

#	country_name	cities	avg_Cost_of_Living_Index	^
1	Albania	Tirana	39.33	
2	Austria	Linz, Graz, Vienna	82.8533333333	
3	Belarus	Minsk	35.3	
4	Belgium	Antwerp, Leuven, Gent, Brussels	85.58	
5	Bosnia And Herzegovina	Sarajevo, Barija Luka	41.175	-
6	Bulgaria	Sofia, Varna, Burgas, Plovdiv	41.6175	
7	Croatia	Split, Rijeka, Zagreb, Osijek	56.1575	
8	Czech Republic	Prague, Brno, Olomouc, Ostrava	48.725	
9	Denmark	Copenhagen, Arhus, Aalborg	93.5633333333	
1	Estonia	Tallinn, Tartu	58.0	
1	Finland	Helsinki, Tampere, Turku	85.7166666667	$\sim$

# <u>C</u>lose

∃ <sub>∑</sub> Group By		—		$\times$
Step name	Total			
Include all rows?				
Temporary files directory	%%java.io.tmpdir%%		E     E	rowse
TMP-file prefix	grp			
Add line number, restart in each group				
Line number field name				
Always give back a result row				
The fields that make up the group:				
# Crown field			Co	+ Fielde

#	Group field		<u>G</u> et Fields	
1		Leave this section empty		
		<u> </u>		
		•		

## Aggregates :

#	Name	Subject	Туре	Value	Get lookup fields
1	total	Price	Sum		
0	Help		<u>O</u> K <u>C</u> ancel		

Food	Split Food	Total	
	Rows of s	nine preview — step: Total (1 rows)	
	<del>ŵ</del>	total	
	1	6.07	
		Close	]

Filter rows		_		×
Step name	Filter bedrooms >3			
Send 'true' data to step:				~
Send 'false' data to step:				~
The condition:				
	<pre>fo edit a subcondition, simply</pre>	click	on it	+
bedrooms	> [3]			
1 Help	<u>O</u> K <u>C</u> ancel			

Rows	of step: prev	iew (644 row	is)					_			
#	room_id	host_id	room_type	borou	neighborhood	reviews	overall_satisfaction	accommodate	bedrooms	price	minsta ^
1	180424	864444	Entire home/apt	<null></null>	Centrum West	62	4.5	6	4	321	1
2	218994	888292	Entire home/apt	<null></null>	Noord-West / Noord-Midden	84	5	6	4	271	
3	256670	1350388	Entire home/apt	<null></null>	De Baarsjes / Oud West	3	4.5	5	4	178	
4	283170	1451657	Entire home/apt	<null></null>	Noord-West / Noord-Midden	41	4.5	16	5	357	1.1
5	356929	728160	Entire home/apt	<null></null>	Watergraafsmeer	29	5	4	5	250	1
6	438688	2178991	Entire home/apt	<null></null>	Buitenveldert / Zuidas	2	5	7	4	286	
7	510836	1826139	Entire home/apt	<null></null>	Centrum West	46	5	15	5	714	1.1
8	513743	2531171	Entire home/apt	<null></null>	Oostelijk Havengebied / Indi	12	5	g	5	500	1.0

Filter rows		—		×
Step name Filter	bedrooms >3			
Send 'true' data to step:				~
Send 'false' data to step:				~
The condition:				
				+
bedrooms > [3]			<u> </u>	
AND				
null = []				
O Help	<u>O</u> K <u>C</u> ancel			
🗟 Filter rows	-	- 🗆	$\times$	
Step name Filte	r bedrooms >3, accomoda	ates>4		
Send 'true' data to step:			~	
Send 'false' data to step:			$\sim$	
The condition:				
			+	
bedrooms	> [3]			
OR				
accommoda	tes > [4]			
() Help	<u>Cancel</u>			
		es with private	room	
amsterdam 2015 Filter r	ows 🙁 🔪			
		other		

## Rows of step: places with private room (1000 rows)

room_id	host_id	room_type	borough	neighborhood	reviews	c ^
2818	3159	Private room	<null></null>	Oostelijk Havengebied / Indische Buurt	102	
7231	18481	Private room	<null></null>	Watergraafsmeer	17	
15061	59297	Private room	<null></null>	Westerpark	58	
20168	59484	Private room	<null></null>	Centrum Oost	13	
23651	9616	Private room	<null></null>	De Pijp / Rivierenbuurt	36	
28658	123414	Private room	<null></null>	De Baarsjes / Oud West	207	
28871	124245	Private room	<null></null>	Centrum Oost	2	
29051	124245	Private room	<null></null>	Centrum Oost	85	~
						>
	2818 7231 15061 20168 23651 28658 28871	2818         3159           7231         18481           15061         59297           20168         59484           23651         9616           28658         123414           28871         124245	2818         3159         Private room           7231         18481         Private room           15061         59297         Private room           20168         59484         Private room           23651         9616         Private room           28658         123414         Private room           28871         124245         Private room	2818       3159       Private room <null>         7231       18481       Private room       <null>         15061       59297       Private room       <null>         20168       59484       Private room       <null>         23651       9616       Private room       <null>         28658       123414       Private room       <null>         28871       124245       Private room       <null></null></null></null></null></null></null></null>	28183159Private room <null>Oostelijk Havengebied / Indische Buurt723118481Private room<null>Watergraafsmeer1506159297Private room<null>Westerpark2016859484Private room<null>Centrum Oost236519616Private room<null>De Pijp / Rivierenbuurt28658123414Private room<null>De Baarsjes / Oud West28871124245Private room<null>Centrum Oost</null></null></null></null></null></null></null>	28183159Private room <null>Oostelijk Havengebied / Indische Buurt102723118481Private room<null>Watergraafsmeer171506159297Private room<null>Westerpark582016859484Private room<null>Centrum Oost13236519616Private room<null>De Pijp / Rivierenbuurt3628658123414Private room<null>De Baarsjes / Oud West20728871124245Private room<null>Centrum Oost2</null></null></null></null></null></null></null>

<u>S</u>top

<u>C</u>lose

Get more rows

#### **Execution Results**

xe	cution Results												[2
۵.	ogging 🕗 Execution History	∫ ⊒ Step N	letrics 🖉 🗠	Performance	e Graph 🖹	Metrics @	Preview data	1					
۲													
#	Stepname	Copyn	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	amsterdam 2015	c	0	25350	25353	0	3	0	0	Finished	0.4s	60,221	-
2	Filter rows	C	25350	25350	0	0	0	0	0	Finished	0.4s	59,368	-
3	other	C	20654	20654	0	0	0	0	0	Finished	0.5s	44,900	-
4	places with private room	C	4696	4696	0	0	0	0	0	Finished	0.5s	10,209	-
				1									

## 🔀 Examine preview data

Rows of step: cities in Europe (34 rows)

\_  $\Box$   $\times$ 

#	rank	City	Country	Official_popu	Date	2011_Eurostat_p	Image	Location	Ref.	^
1	1	lstanbul[a]	Turkey	15,029,231	31 December 20	<null></null>	Halic.png	41.013611°N 28.955°E	[4]	
2	2	Moscow[b]	Russia	13,197,596	1 January 2017	<null></null>	Moscow-City2015.jpg	55.75°N 37.616667°E	[5]	
3	3	London	United Kingdom	8,787,892	30 June 2016	8,173,941	London from a hot air balloon.jpg	51.507222°N 0.1275°W	[6]	
4	4	Saint Petersburg	Russia	5,323,300	1 January 2017	<null></null>	Saint Isaac's Square SPB (01).jpg	59.95°N 30.3°E	[7][8]	
5	5	Berlin	Germany	3,671,000	31 December 20	3,460,725	Siegessaeule Aussicht 10-13 img4 Tierg	52.516667°N 13.383333°E	[9]	
6	6	Madrid	Spain	3,182,981	1 January 2017	3,198,645	Ejército del Aire (25408739923).jpg	40.383333°N 3.716667°W	[10]	
7	7	Kiev	Ukraine	2,934,401	1 February 2018	<null></null>	Lavra Kyiv.JPG	50.45°N 30.523333°E	[11]	
8	8	Rome	Italy	2,879,038	19 October 2017	2,873,494	Roma dall'aereo.JPG	41.9°N 12.5°E	[12]	
9	9	Paris	France	2,241,346	1 January 2014	2,249,977	Sunset over Paris 5, France August 2013.j	48.8567°N 2.3508°E	[13]	
1	10	Bucharest	Romania	2,106,144	1 January 2016	1,903,299	Bucuresti de sus.jpg	44.4325°N 26.103889°E	[14] [15]	~

<u>C</u>lose Show Log

#### 🔀 Examine preview data

Rows of	step:	cities	in	Europe	(34	rows)	

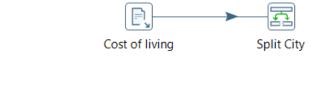
- 🗆 ×

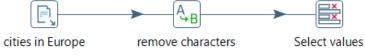
#	rank	City	Country	Official_popu	Date	2011_Eurostat_p	Image	Location	Ref.	^
1	1	lstanbul[a]	Turkey	15,029,231	31 December 20	<null></null>	Halic.png	41.013611°N 28.955°E	[4]	
2	2	Moscow[b]	Russia	13,197,596	1 January 2017	<null></null>	Moscow-City2015.jpg	55.75°N 37.616667°E	[5]	
3	3	London	United Kingdom	8,787,892	30 June 2016	8,173,941	London from a hot air balloon.jpg	51.507222°N 0.1275°W	[6]	
4	4	Saint Petersburg	Russia	5,323,300	1 January 2017	<null></null>	Saint Isaac's Square SPB (01).jpg	59.95°N 30.3°E	[7][8]	
5	5	Berlin	Germany	3,671,000	31 December 20	3,460,725	Siegessaeule Aussicht 10-13 img4 Tierg	52.516667°N 13.383333°E	[9]	
6	6	Madrid	Spain	3,182,981	1 January 2017	3,198,645	Ejército del Aire (25408739923).jpg	40.383333°N 3.716667°W	[10]	
7	7	Kiev	Ukraine	2,934,401	1 February 2018	<null></null>	Lavra Kyiv.JPG	50.45°N 30.523333°E	[11]	
8	8	Rome	Italy	2,879,038	19 October 2017	2,873,494	Roma dall'aereo.JPG	41.9°N 12.5°E	[12]	
9	9	Paris	France	2,241,346	1 January 2014	2,249,977	Sunset over Paris 5, France August 2013.j	48.8567°N 2.3508°E	[13]	
1	10	Bucharest	Romania	2,106,144	1 January 2016	1,903,299	Bucuresti de sus.jpg	44.4325°N 26.103889°E	[14] [15]	~

Close Show Log

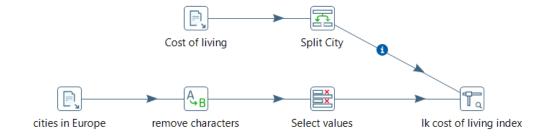
-  $\Box$   $\times$ 

Ą₀	Replace in string	)							_	$\Box$ ×			
			Step nam	e remove	e characters								
Fiel	Fields string												
#	In stream field	Out stream field	use RegEx	Search	Replace with	Set empty string?	Replace with	Whole Word	Case sensitive	Is Unicode			
1	City		γ	\[.+\]		Ν		Ν	Ν	Ν			
0	OHelp     OK     Get fields     Cancel												





٣.	Stream Va	lue Lookup				_	
		S	tep name	Ik cost of livin	g index		
		Lo	okup step	Split City			~
The	key(s) to lo	ook up the valu	ie(s):				
#	Field	LookupField	ł				
1	City	city_name					
2	Country	country_nan	ne				
	cify the fiel	ds to retrieve :					
#	Field		New nam	e Default	Туре		
1	Cost_of_Li	ving_Index			Number		
	Pres	erve memory (	costs CPU)				
K		e are exactly o		-			
		orted list (i.s.o.	_	-			
0	Help	<u>O</u> K		<u>C</u> ancel	<u>G</u> et Fields	Get <u>l</u> ookup field	ds



Rows of step: Ik cost of living index (34 rows)

#	rank	City	Country	Official_population	Cost_of_Living_Index	^
1	1	Istanbul	Turkey	15,029,231	<null></null>	
2	2	Moscow	Russia	13,197,596	51.82	
3	3	London	United Kingdom	8,787,892	88.69	
4	4	Saint Petersburg	Russia	5,323,300	46.41	
5	5	Berlin	Germany	3,671,000	74.32	
6	6	Madrid	Spain	3,182,981	67.63	
7	7	Kiev	Ukraine	2,934,401	27.52	
8	8	Rome	Italy	2,879,038	78.8	~

<u>C</u>lose

#### 💥 Step fields and their origin

\_

Step name: Ik cost of living index Fields:

-								
#	Fieldname	Туре	Length	Precision	Step origin	Storage	Mask	Currency
1	rank	Integer	-	0	cities in Europe	normal	0	\$
2	City	String	-	-	cities in Europe	normal		\$
3	Country	String	-	-	cities in Europe	normal		\$
4	Official_population	Number	-	-	cities in Europe	normal	#,##0.###	\$
5	Cost_of_Living_Index	Number	-	-	Ik cost of living index	normal	0.#####	\$
						-		
<								>
			<u>E</u> di	t origin step	<u>C</u> ancel			

#### II↓ Add constant values

 $\times$ 

—

Fiel	ds :		Step	name Ado	type_persons	3				
# 1	Name type_persons	Type String	Format	Length	Precision	Currency	Decimal	Group	Value persons	Set empty string? N
0	Help				<u>O</u> K	<u>C</u> ancel				

🔀 Examine preview data

 $\Box$   $\times$ \_

Rows of step: Add type\_persons (53 rows)

#	person_id	injury_type	injury_date	type_persons	^
1	153	elbow	2007-07-09	persons	
2	186	fingers	2007-07-15	persons	
3	198	shoulder	2007-07-15	persons	
4	213	elbow	2007-07-16	persons	
5	378	elbow	2007-07-24	persons	
6	391	lower-back	2007-07-29	persons	
7	400	elbow	2007-07-21	persons	
8	407	lower-back	2007-07-15	persons	~

R	Database Value	e Lookup							_		×
		Step na	me Ik name	е							
		Connect	tion Sports					~	<u>E</u> dit	<u>N</u> ew	Wizard
		Lookup sche	ma						_	•	Browse
		Lookup tal	ble display	nam	ec.						Browse
		Enable cac			00					*	<u>b</u> rowse
	Cache s	ize in rows (0=ca									
		d all data from ta									
The	key(s) to look u										
#	Table field	Comparator	Field1		Field2						
1	id	=	person_id								
2	entity_type	=	type_perso	ns							
	ies to return fro	m the lookup tab	le :								
#	Field	New name	Default	Тур	e						
1	language			Stri	ng						
2	full_name			Stri	-						
3	first_name			Stri	-						
4	middle_name			Stri	-						
5	last_name			Stri	ng						
Do	not pass the ro	w if the lookup fa	ails 🗌								
		I on multiple resu									
		Order	by								
0	Help	<u>O</u> K	Cance	4		<u>G</u> et Fi	elds	Get	lookup	fields	,
0	Ticip					<u>o</u> cc11	eras	<u>o</u> ct	lookup	nerus	

- 🗆 ×

Rows of step: Ik name (53 rows)

#	person_id	injury_type	injury_date	type_persons	language	full_name	first_name	middle_name	last_name	^
1	153	elbow	2007-07-09	persons	en-US	Victor Martinez	Victor	<null></null>	Martinez	
2	186	fingers	2007-07-15	persons	en-US	David Dellucci	David	<null></null>	Dellucci	
3	198	shoulder	2007-07-15	persons	en-US	Matt Miller	Matt	<null></null>	Miller	
4	213	elbow	2007-07-16	persons	en-US	Tony Clark	Tony	<null></null>	Clark	
5	378	elbow	2007-07-24	persons	en-US	Edwin Jackson	Edwin	<null></null>	Jackson	
6	391	lower-back	2007-07-29	persons	en-US	Chad Qualls	Chad	<null></null>	Qualls	
7	400	elbow	2007-07-21	persons	en-US	Andy LaRoche	Andy	<null></null>	LaRoche	
8	407	lower-back	2007-07-15	persons	en-US	Barry Bonds	Barry	<null></null>	Bonds	~

# **Chapter 5: Loading Data**

'e	Text file output								_		×
			Step name listing								
File	Content Fields										
#	Name	Туре	Format	Length	Precision	Currency	Decimal	Group	Trim Type	Null	
1	room_id	Integer	0						both		
2	room_type	String							both		
3	neighborhood	String							both		
4	price	Number	\$0.00						both		
5	minstay	Integer	0						both		
6	last_modified	Date	yyyy-MM-dd						both		
				<u>G</u> et Fields	<u>M</u> inim	al width					
0	Help			<u>O</u> K	<u>C</u> ance	ł					

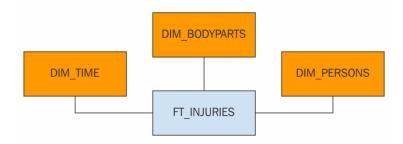
Exe	ecution Results												Ľ
	Logging 🕗 Executior	History 📳	Step Metric	s 🖉 Perfe	ormance G	iraph 達 Me	trics   Previ	ew data					
۲													
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	amsterdam 2015	0	0	25350	25353	0	3	0	0	Finished	1.3s	19,265	-
2	Java Filter	0	25350	1961	0	0	0	0	0	Finished	1.3s	19,219	-
3	listing	0	1961	1961	0	1962	0	0	0	Finished	1.3s	1,471	-
					L								
_													

🛅 Table output			_		×
Step	name injury_phas	es			
Conne	ection Sports	~	<u>E</u> dit	<u>N</u> ew	Wizard
Target sc	hema			٩	Browse
Target	table injury_phas	es		٩	Browse
Commi	t size 1000				•
Truncate	table 🗌				
Ignore insert	errors 🗌				
Specify database	fields 🗸				
Main options Database	e fields				
Fields to insert:					
<b>#</b> Table field	Stream field			G	et fields
1 person_id	person_id		<b>F</b> act	en Calala	
2 injury_type	injury_type		Ente	er field r	mapping
3 injury_side	injury_side				
4 start_date_time	injury_date				
Help	<u>O</u> K <u>C</u> a	incel <u>S</u> QL			

Exe	cution Result	s											[2
	Logging 🕗 Execu	tion History	E Step N	Metrics 🛃	Perform	ance Graph	🛓 Metrics 👁	Preview data	a				
٩							1						
#	Stepname	Copynr	Read	Written	Inpu	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	more injuries	0	0	8	9	0	1	0	0	Finished	0.1s	152	-
2	injury_phases	0	8	8	0	8	0	0	0	Finished	0.4s	20	-
_													

Ð	Update				- 🗆	×
	S	tep name Up	date injury details			
	C	Connection Spo	orts	∽ <u>E</u> d	lit <u>N</u> ew	Wizard
	Targ	et schema			•	Browse
	Ta	rget table ini	ury_phases			<u>B</u> rowse
		mmit size 10			· ·	<u>B</u> IOWSE
		n updates?	,			<b>`</b>
		kip lookup				
			lag field (key found	>		
The	key(s) to look up the	e value(s):				
#	Table field	Comparator	Stream field1	Stream field2		<u>G</u> et fields
1	person_id	=	person_id			
2	start_date_time	=	injury_date			
Upo #	late fields:					
	Table field	Stream field			Get <u>u</u> pd	ate fields
1	injury_comment	comment				
0	Help	<u>O</u> K	<u>C</u> ancel	<u>S</u> QL		
	<b></b>		►	⊗>	m	
r	more injuries with co	mment	Update injury def	tails	Write to	
			opento injury de			

Exe	cution Results												Ľ
	ogging 🕗 Execution History 📜	Step Metric	s 🖉 Pe	rformance G	raph 🖹 I	Metrics 👁	Preview data						
۲													
#	Stepname	Copynr	Read	Written	Input	Outpu	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	more injuries with comment	0	0	4	5	d	1	0	0	Finished	0.0s	454	-
2	Update injury details	0	4	3	4	c	3	1	0	Finished	0.3s	14	-
3	rejected lines	0	1	1	0	d	0	0	0	Finished	0.3s	4	-



5	Generate Ro	WS									_		×
			Step na	me	start_c	late							
	Limit												\$
		Neve	r stop generating i	ows [									
Interval in ms (delay)					5000								\$
	Current row time field name					now							\$
	Previous row time field name				FiveSecondsAgo						\$		
Fiel	ds :												
#	Name	Туре	Format	Len	ngth	Precision	Currency	Decimal	Group	Value	Set e	mpty strir	ng?
1	start_date	Date	yyyy-MM-dd							2018-01-01	Ν		

1 Help	<u>O</u> K	Preview	<u>C</u> ancel	

ecision Remove	Conversion mask
Ν	yyyyMMdd
r	

Ж	Examine preview data			$\times$
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 $\checkmark$ 

Rows	of step: date at	tributes (1	000 rows)	
#	start_date	delta	a_date	
1	2018-01-01	0	20180101	
2	2018-01-01	1	20180102	
3	2018-01-01	2	20180103	
4	2018-01-01	3	20180104	
5	2018-01-01	4	20180105	
6	2018-01-01	5	20180106	
7	2018-01-01	6	20180107	
8	2018-01-01	7	20180108	
9	2018-01-01	8	20180109	

<u>C</u> lose	<u>S</u> top	Get more rows
---------------	--------------	---------------

10 2018-01-01

9 20180110

elds			ep name dat	e attributes						
	s:									
₽́ I	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask
a	a_date	Date A + B Days	start_date	delta		Date			N	yyyyMMdd
2 )	year	Year of date A	a_date			Integer			N	
3 r	month	Month of date A	a_date			Integer			N	
4 0	day	Day of month of date A	a_date			Integer			N	
5 \	week_day	Day of week of date A	a_date			Integer			N	
C										



AB Value Mapper		_	$\times$
Step name :	week_day_desc		
Fieldname to use :	week_day		~
Target field name	week_day_desc		
Default upon non-matching			
Field values:			

#	Source value	Target value
1	1	Sunday
2	2	Monday
3	3	Tuesday
4	4	Wednesday
5	5	Thursday
6	6	Friday
7	7	Saturday

⑦ Help

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Rows of step: month\_desc (1000 rows)

#	start_date	delta	a_date	year	month	day	week_day	week_day_desc	month_desc	^
1	2018-01-01	0	20180101	2018	1	1	2	Monday	January	
2	2018-01-01	1	20180102	2018	1	2	3	Tuesday	January	
3	2018-01-01	2	20180103	2018	1	3	4	Wednesday	January	
4	2018-01-01	3	20180104	2018	1	4	5	Thursday	January	
5	2018-01-01	4	20180105	2018	1	5	6	Friday	January	
6	2018-01-01	5	20180106	2018	1	6	7	Saturday	January	
7	2018-01-01	6	20180107	2018	1	7	1	Sunday	January	
8	2018-01-01	7	20180108	2018	1	8	2	Monday	January	
9	2018-01-01	8	20180109	2018	1	9	3	Tuesday	January	
10	2018-01-01	9	20180110	2018	1	10	4	Wednesday	January	~

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Get more rows

Sele	ct & Alter Remove	Meta-data							
Fiel	ds to alter the meta	-data for :							
#	Fieldname	Rename to	Туре	Length	Precision	Binary to Normal?	Format	Date Format Lenient?	
1	a_date		String			N	yyyyMMdd	Ν	
									Get fields to change
<					1			>	1

Se	lect & Alter Rem	ove Meta-data							
Fi	elds to alter the m	neta-data for :							
Í	Fieldname	Rename to	Туре	Length	Precision	Binary to Normal?	Format	Date Format Lenient?	
1	a_date		Number			N	#	N	
									Get fields to change
<								)	

#### Specify database fields 🔽

el	ds to insert:		
ŧ	Table field	Stream field	<u>G</u> et fiel
	dateid	a_date	Enter field mapping
2	year	year	Enter neid mappi
3	month	month	
1	day	day	
5	week_day	week_day	
5	week_day_desc	week_day_desc	
7	month_desc	month_desc	

Ľ.	Combination Looku	ıp / Update							_		×
		Step name	dim_	bodyparts							
		Connection	sample_dw 🗸			<u> </u>	dit	<u>N</u> ew	Wizard		
	Та	arget schema								\$	Browse
		Target table	dim_	bodyparts						\$	Browse
		Commit size	1000				Cache	size	999	9	
Kau	fielde (te le els un ve	in tabla):				Pre-loa	ad the ca	che?			
æy	fields (to look up ro										
	Dimension field	Field in strea	am								
1	bodypart	injury_type									
	Techr	nical key field	id								
				tion of tech	nnica	l key					
			OU	se table ma	aximu	um + 1					
			ΟU	se sequenc	e						
			ΟU	se auto inc	reme	nt field					
	Remove lo	ookup fields?									
	U	se hashcode?									
	Hashcode	field in table									
D	ate of last update fie	eld (optional)									
0	) Help	<u>O</u> K	(	<u>C</u> ancel	<u>G</u> e	et Fields	<u>S</u> QI	-			
	_	_									

🔀 Examine preview data  $\times$ — Rows of step: SQL statement #1 (51 rows) #  $\overline{}$ id bodypart 1 1 abdomen 2 2 achilles-tendon 3 3 ankle 4 4 appendix 5 5 arm 6 6 back 7 7 biceps 8 8 calf 9 9 chest 1 10 collarbone  $\checkmark$ 

Keys Fields					
Key	fields (to look up re	ow in dimension):			
#	Dimension field	Field in stream			
1	entity_id	person_id			

0	kup/Update fields		
#	Dimension field	Stream field to compare with	Type of dimension update
1	first_name	first_name	Update
2	last_name	last_name	Update

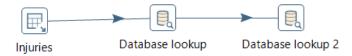
 $\Box$   $\times$ 

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Rows of step: dim\_persons (100 rows)

#	id	first_name	last_name	entity_id	version	date_from	date_to	^
1	0	N/A	N/A	0	1	<null></null>	<null></null>	
2	1	Jeff	Salazar	323	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
3	2	Robby	Hammock	326	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
4	3	Alberto	Callaspo	328	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
5	4	Brian	Barden	330	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
6	5	Donnie	Sadler	331	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
7	6	Randy	Choate	334	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
8	7	Mike	Schultz	335	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
9	8	Jailen	Peguero	336	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
1	9	Enrique	Gonzalez	333	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	
1	10	Dana	Eveland	332	1	1900/01/01 00:00:0	2199/12/31 23:59:59.999	~

> Version field	version		~
Stream Datefield			~
→ Date range start field	date_from V	Min. year	1900
Use an alternative start date?	<pre><select option=""></select></pre>	~	~
> Table date range end	date_to 🗸	Max. year	2199



#### The key(s) to look up the value(s):

#	Table field	Comparator	Field1	Field2	
1	entity_id	=	person_id		

Values to return from the lookup table :

#	Field	New name	Default	Туре	
1	id	id_person	0	Integer	

#### The key(s) to look up the value(s):

#	Table field	Comparator	Field1	Field2
1	bodypart	=	injury_type	

Values to return from the lookup table :

#	Field	New name	Default	Туре
1	id	id_bodypart	0	Integer

#### $\Box$ $\times$

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#### Rows of step: Ik bodypart (615 rows)

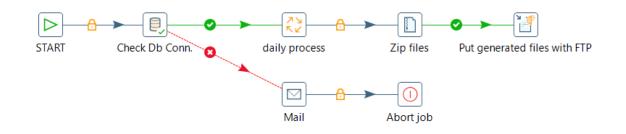
#	person_id	injury_type	injury_date	qty	id_person	id_bodypart	^
1	491	other-excused	20070803	1	31	33	
2	553	leg	20070803	1	615	28	
3	559	knee	20070803	1	975	27	
4	516	other-excused	20070803	1	939	33	
5	287	other-excused	20070803	1	869	33	
6	417	other-excused	20070803	1	53	33	
7	17	thumb	20070803	1	0	45	
8	297	other-excused	20070803	1	866	33	~

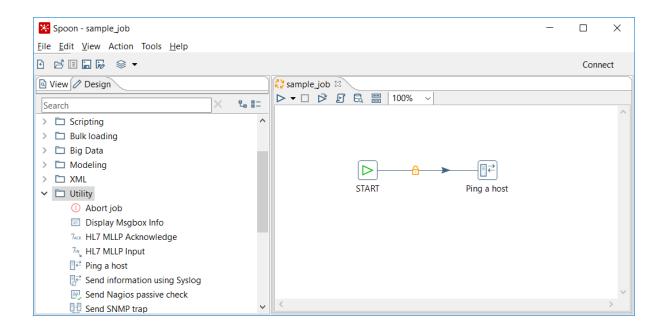
<u>C</u>lose

### Specify database fields $\checkmark$

e	ds to insert:		
ŧ	Table field	Stream field	<u>G</u> et field
1	id_person	id_person	Enter field mapping
2	id_bodypart	id_bodypart	Enter neid mapping
3	date	injury_date	
4	quantity	qty	

## **Chapter 6: Orchestrating Your Work**





🔀 Spoon - sample_job		— c	⊐ ×
<u>File Edit View Action Tools H</u> elp	Main Menu		
🗈 🖻 🖬 🐻 🛇 🔻 Main To	olbar		Connect
🖻 View 🖉 Design	🛟 sample_job 🕴		
Search X 🖫 🗄 🖛	▷ ▼ 🗆 🖻 🗟 🖪   100% ∨ 🛛 🔤 Job Toolbar		
<ul> <li>General</li> <li>Mail</li> <li>File management</li> <li>Conditions</li> <li>Scripting</li> <li>Bull</li> <li>Big (entries tree)</li> <li>Moc</li> <li>XML</li> <li>Utility</li> <li>Repository</li> </ul>	START Ping a host	Work Area	^
<ul> <li>File transfer</li> </ul>	<	<b>Execution Results Wind</b>	ow >
> D File encryption	Execution Results		Ľ×
Palo     Deprecated	□ Logging ② History ] □ Job metrics ≥ Metrics		
	2018/08/12 17:18:18 - sample_job - Start of job execution 2018/08/12 17:18:18 - sample_job - Starting entry [Ping a host] 2018/08/12 17:18:20 - sample_job - Finished job entry [Ping a host] (result=[true]) 2018/08/12 17:18:20 - sample_job - Job execution finished 2018/08/12 17:18:20 - Spoon - Job has ended.		<b>^</b>



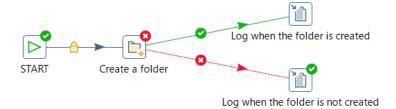
Logging 🕗 History 📜	Job metrics [ Metrics						
ob / Job Entry	Comment	Result	Reason	Filename	Nr	Log date	
sample_job							
Job: sample_job	Start of job execution		start			2018/08/12 17:04:44	
START	Start of job execution		start			2018/08/12 17:04:44	
START	Job execution finished	Success			0	2018/08/12 17:04:44	
Ping a host	Start of job execution		(2) Followed unconditional link			2018/08/12 17:04:44	(1)
Ping a host	Job execution finished	(4) Failure			0	2018/08/12 17:04:44	(3)
Job: sample_job	Job execution finished	Failure	finished		0	2018/08/12 17:04:44	



START Create a		Log when the	e folder is cre	
Run Options Run configuration: Pentaho local			— [	
Options	Log level:	Rasic	~	
	LUU IEVEI.	Dusic	•	
<ul> <li>Clear log before running</li> <li>Enable safe mode</li> <li>Gather performance metrics</li> </ul>	Start job at:		*	
✓ Clear log before running ☐ Enable safe mode	Start job at:		~	
Clear log before running Clear log before running Gather performance metrics	Start job at:		~	

Always show dialog on run

Help	<u>R</u> un <u>C</u> ancel	
START Create a folder	Log when the folder is created	
	Log when the folder is not created	



#### **Execution Results**

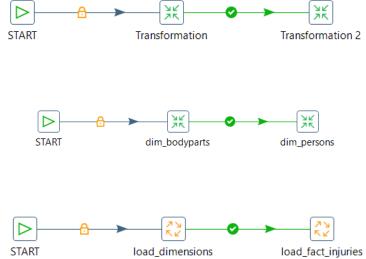
Logging 🕗 History 📴 Job metrics 🗈 Me	etrics			
Job / Job Entry	Comment	Result	Reason	Filename
<ul> <li>sample_job_run_upon_conditions</li> </ul>				
Job: sample_job_run_upon_conditions	Start of job execution		start	
START	Start of job execution		start	
START	Job execution finished	Success		
Create a folder	Start of job execution		Followed unconditional link	_
Create a folder	Job execution finished	Failure		
Log when the folder is not created	Start of job execution		Followed link after failure	
Log when the folder is not created	Job execution finished	Success		
Job: sample_job_run_upon_conditions	Job execution finished	Success	finished	
<				>

Job mail details		_	$\times$
Name of mail job entry:	Sample email		
Addresses Server EMail Message A	ttached Files		
SMTP Server			
SMTP Server:	smtp.gmail.com		 ٩
Port:	465		 ٩
Authentication Use authentication?			
Authentication user:	@gmail.com		 ٩
Authentication password:	•••••		 \$
Use secure authentication?	$\checkmark$		
Secure connection type	SSL		$\sim$
Help	<u>O</u> K <u>C</u> ancel		

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Addresses Server EMail Message	Attached Files	
Message Settings		
Include date in message?		
Only send comment in mail	☑ ←───	
Use HTML format in mail body?		
Encoding	UTF-8 🗸	
Manage priority		
Priority	Normal 🗸	
Importance	Normal	
Sensitivity	Normal V	
Message		
Subject:	Hello from Spoon	•
Comment:	This is the first email sent with PDI	
	•	'
	< > >	

\$	Set Environme	nt Variables			_		×
	S	tep name : Set \$	(MAXDATE)				
	Apply	formatting 🗹					
Field	d values:						
#	Field name	Variable name	Variable sco	pe type	Defau	lt value	
1	maxdate	MAXDATE	Valid in the root job				
							_
0	Help	<u>O</u> K	<u>C</u> ancel	<u>G</u> et Fields			
	Theip	<u> </u>			-		
					_		
			Nuz		5		



Options Logging Arguments Parameters
Specify logfile
Logfile
Name:
c:/pdi_logs/load_dimensions Srowse
Extension:
log
Log level:
Basic 🗸
Append logfile
Create parent folder
Include date in logfile
✓ Include time in logfile

