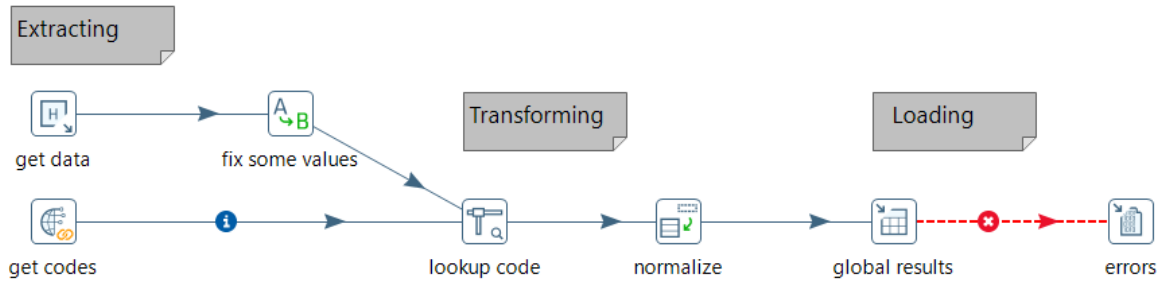


Chapter 1: Getting Started with PDI



SOURCEFORGE Articles Cloud Storage Business VoIP

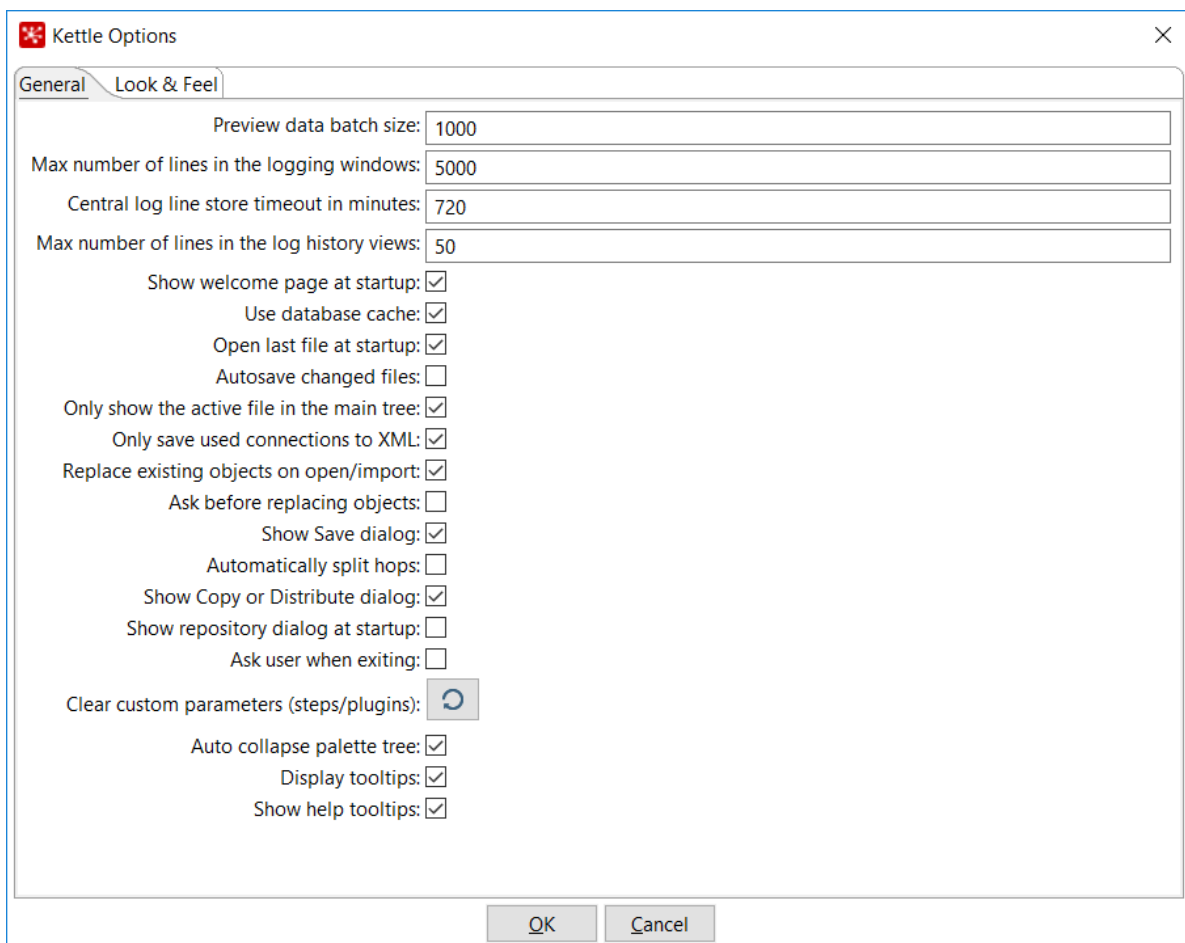
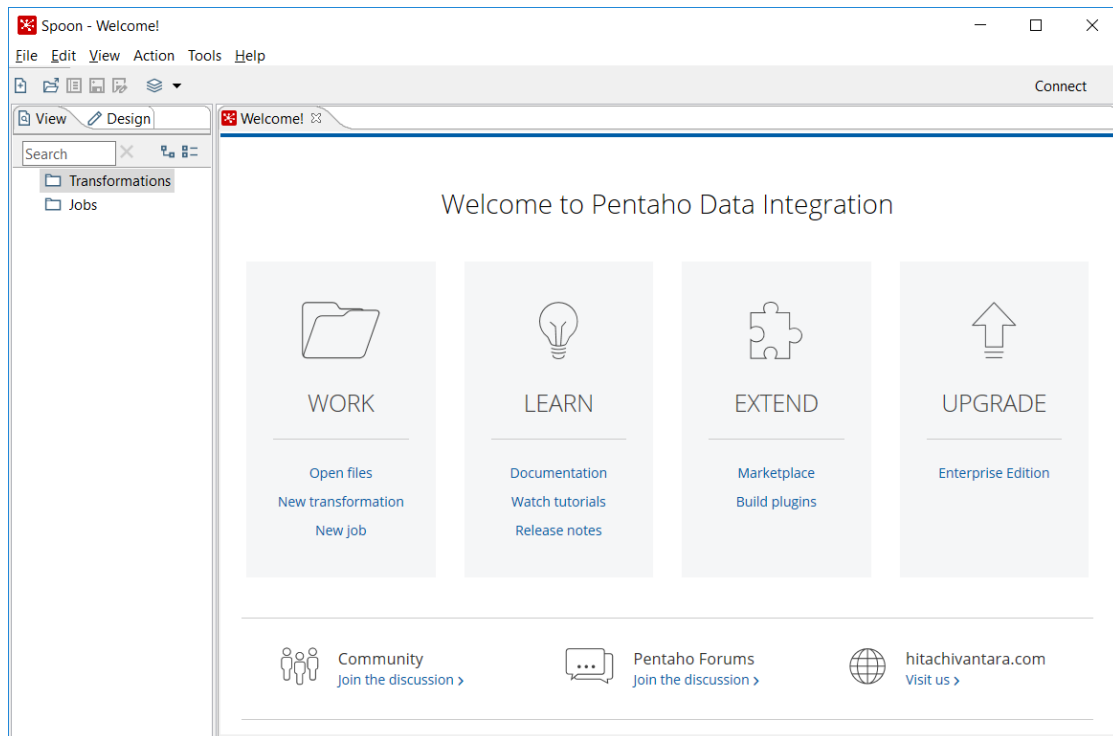
Brought to you by: beccany, ieheng-pentand, imbatchelor, pedrovtexera, pingaives

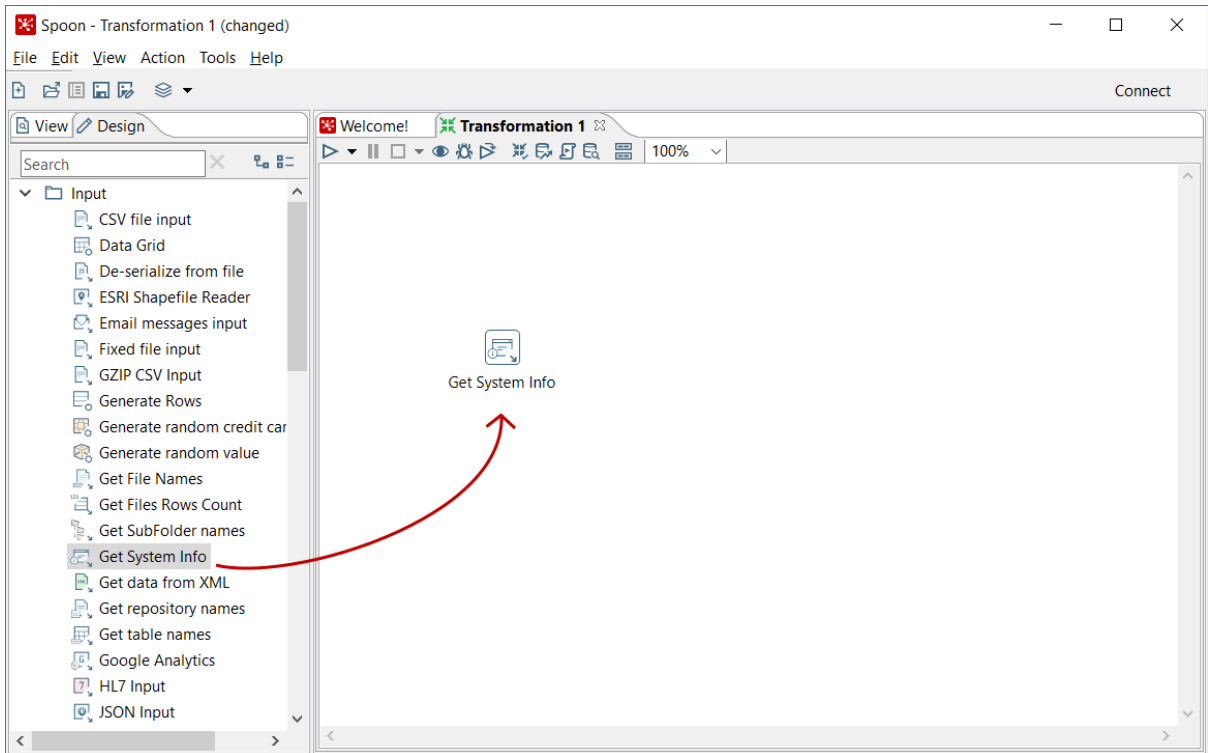
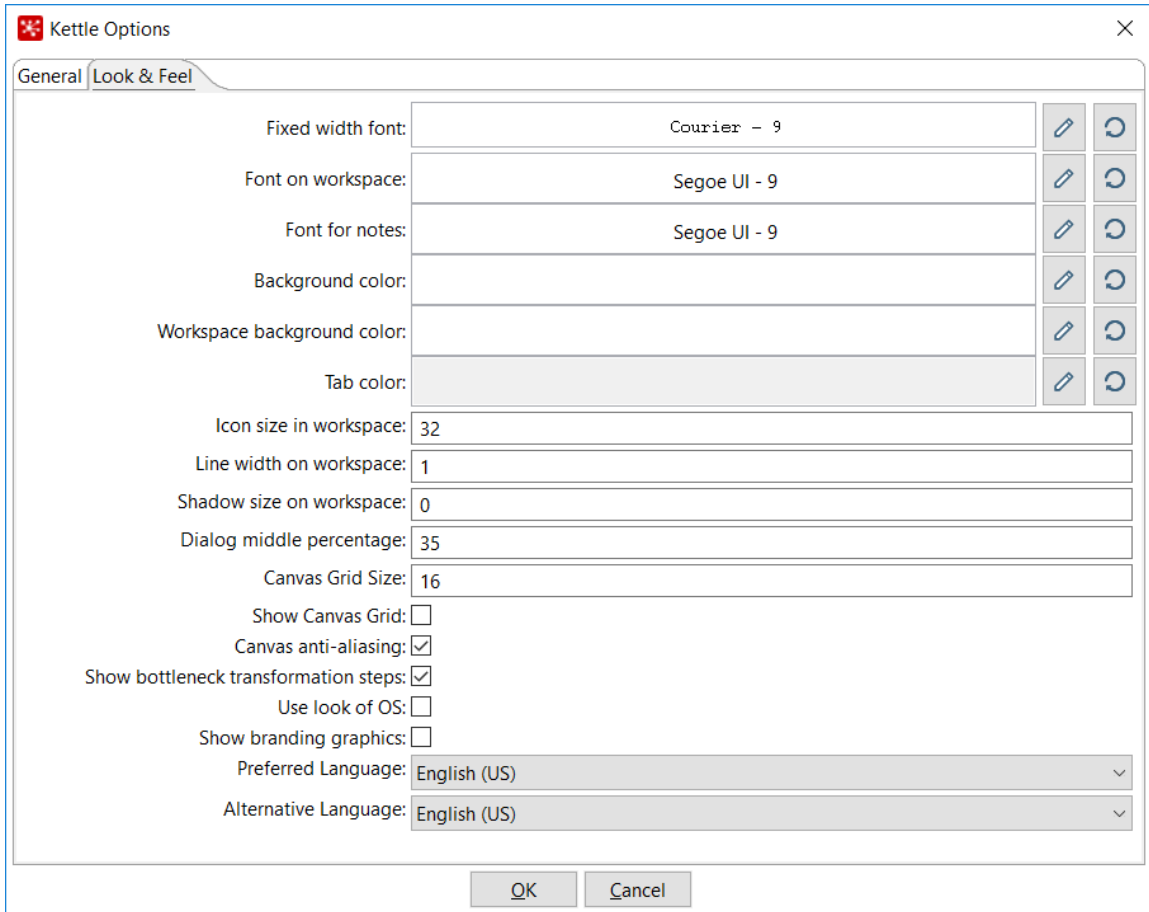
Summary **Files** Reviews Support Wiki News Donate

Download Latest Version
pdi-ce-8.1.0.0-365.zip (1.0 GB) [Get Updates](#)

[Home](#) / Data Integration

Name	Modified	Size	Downloads / Week
Parent folder			
7.1	2017-05-22		3,199
7.0	2016-11-09		229
6.1	2016-04-13		264
6.0	2015-12-10		127





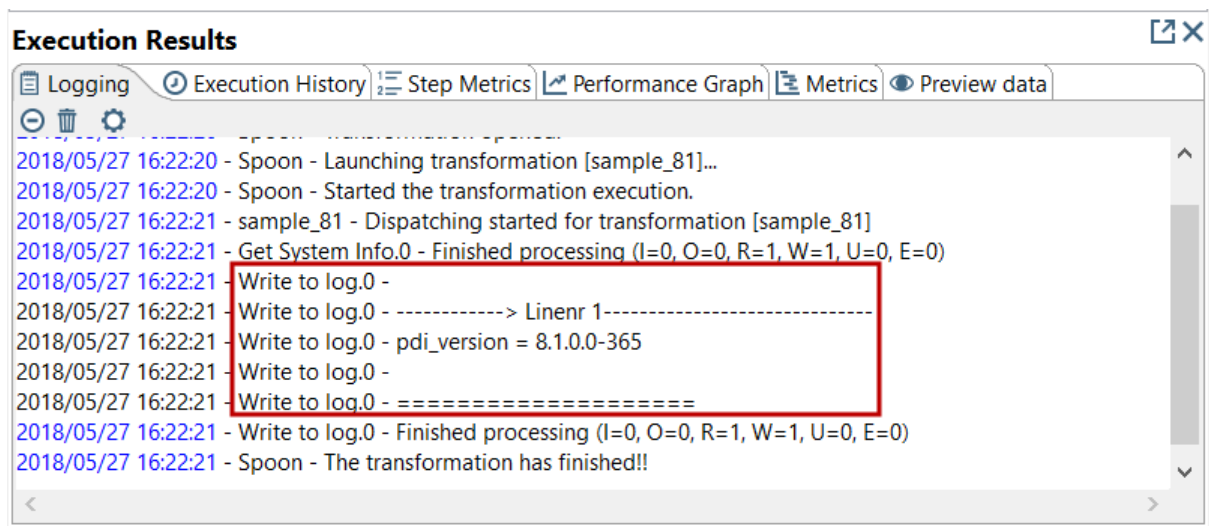
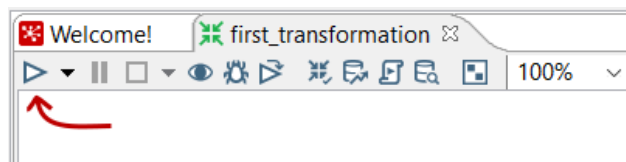
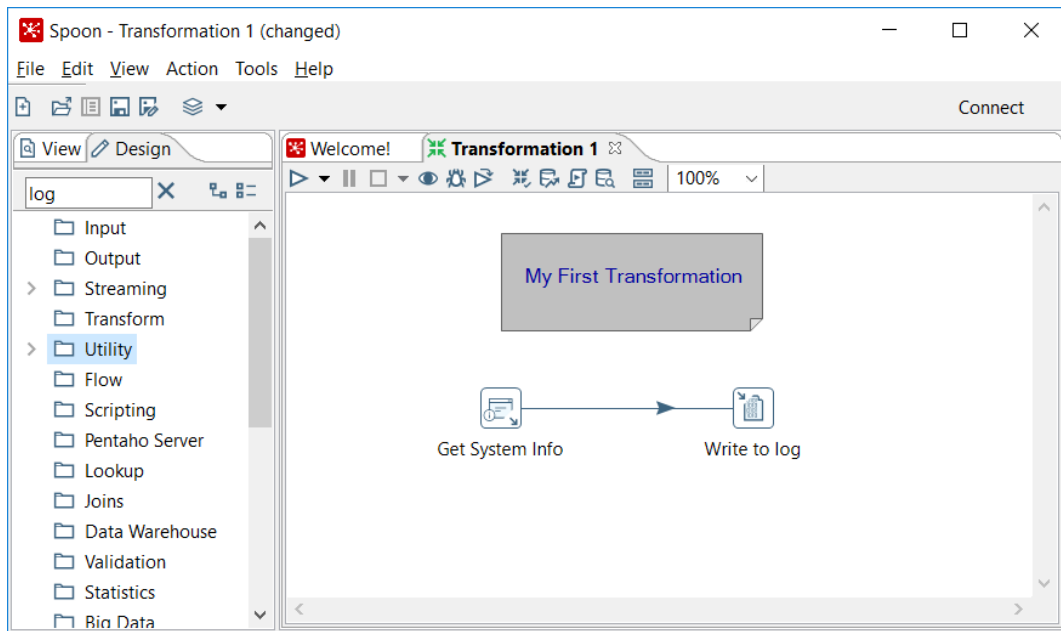
Get System Data

Step name

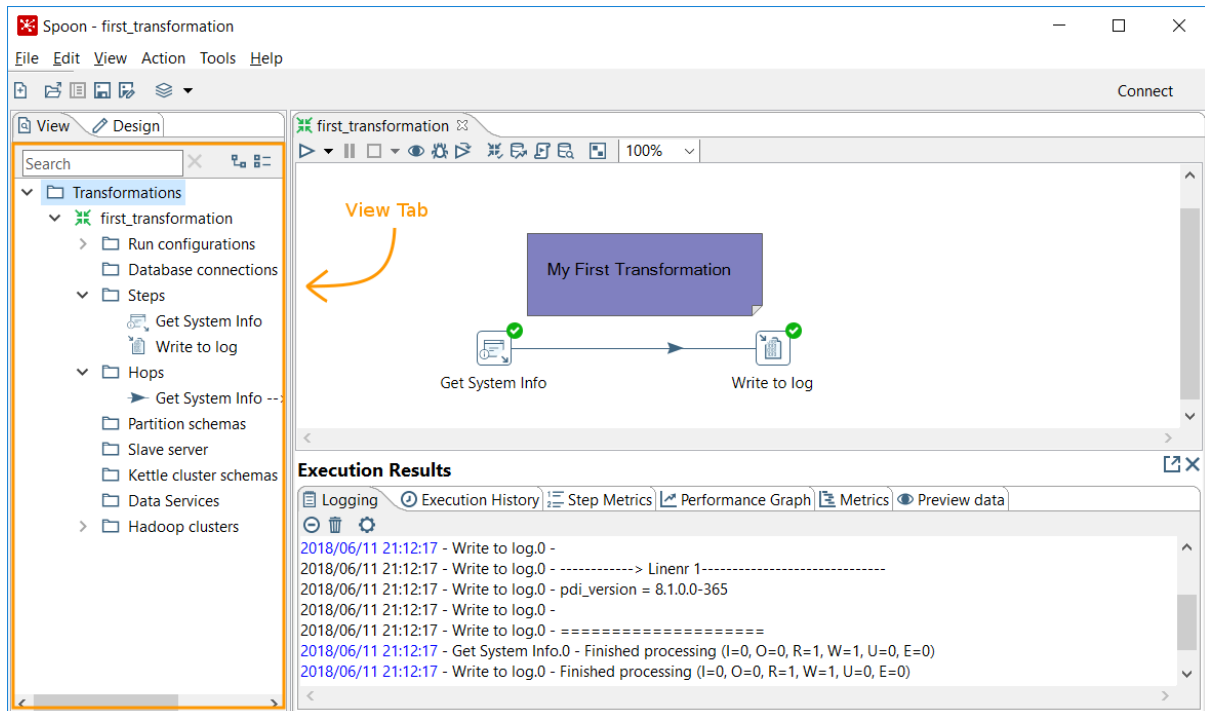
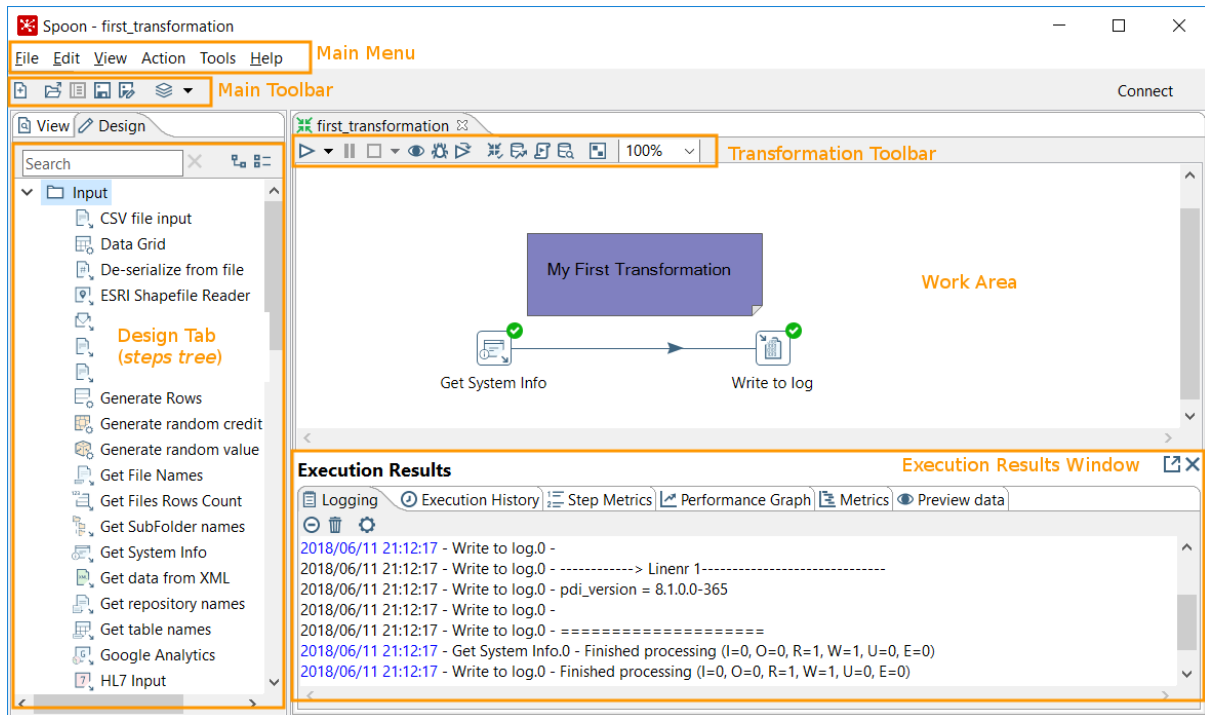
Fields:

#	Name	Type
1	pdi_version	Kettle version





Chapter 2: Getting Familiar with Spoon



CSV Input

Step name: cities

Filename: C:\Pentaho\pdi_ce_8.1\samples\transformations\files\Zipssortedbycitystate.csv Browse...

Delimiter: , Insert TAB

Enclosure: "

NIO buffer size: 50000

Lazy conversion?

Header row present?

Add filename to result

The row number field name (optional):

Running in parallel?

New line possible in fields?

File encoding:

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Trim type
1	CITY	String							none
2	STATE	String							none
3	POSTALCODE	String							none

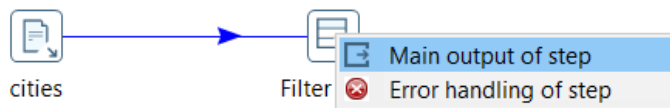
Help OK Get Fields Preview Cancel

Examine preview data

Rows 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

Close Show Log



Filter rows

Step name:

Send 'true' data to step:

Send 'false' data to step:

The condition:

= (String)

Help OK Cancel



cities

Copynr	0
Read	18708
Written	1001
Input	0
Output	0
Updated	0
Rejected	0
Errors	0
Active	Paused
Time	0.1s
Speed (r/s)	147,307
input/output	2671/0

Filter NY

Examine preview data

Rows of step: Filter NY (1000 rows)

#	CITY	STATE	POSTALCODE
1	ACRA	NY	12405
2	ADAMS	NY	13605
3	ADAMS CENTER	NY	13606
4	ADIRONDACK	NY	12808
5	AKRON	NY	14001
6	ALABAMA	NY	14003
7	ALBANY	NY	12201
8	ALBANY	NY	12203
9	ALBANY	NY	12205
1	ALBANY	NY	12207

Close Stop Get more rows

Run Options

Run configuration:
 Pentaho local

Options

Clear log before running
 Enable safe mode
 Gather performance metrics

Log level: Basic

- Nothing
- Error
- Minimal
- Basic
- Detailed
- Debug
- Row Level (very detailed)

Parameters Variables

Parameter	Default value	Value

Arguments (legacy)

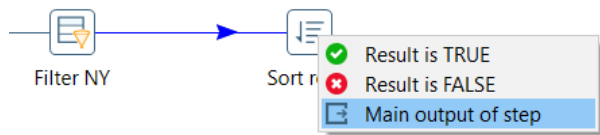
Always show dialog on run

Help Run Cancel

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

#	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	-



Sort rows

Step name: Sort by Zip code

Sort directory: %%java.io.tmpdir%% Browse...

TMP-file prefix: out

Sort size (rows in memory): 1000000

Free memory threshold (in %):

Compress TMP Files?

Only pass unique rows? (verifies keys)

Fields:

#	Fieldname	Ascending	Case sensitive compare?	Sort based on current locale?	Collator Strength
1	ZIPCODE	Y			

Help OK Cancel Get Fields

simple_transf

cities → Filter NY → Sort by Zip code

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
1	cities	0	0	4919	4920	0	0	0	0	Stopped	0.0s	351,428
2	Filter NY	0	758	51	0	0	0	0	0	Stopped	0.0s	75,800
3	Sort by Zip code	0	1	0	0	0	0	0	1	Stopped	0.0s	100

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

2018/06/11 22:08:14 - cities.0 - header row skipped in file C:\pentaho\opt_ce_0.1\samples\transformations\cities\zipssortedbycitystate.csv

2018/06/11 22:08:14 - Sort by Zip code.0 - ERROR (version 8.1.0.0-365, build 8.1.0.0-365 from 2018-04-30 09:42:24 by buildguy) : Unexpected error

2018/06/11 22:08:14 - Sort by Zip code.0 - ERROR (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.excep

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 -

2018/06/11 22:08:14 - Sort by Zip code.0 - at org.pentaho.di.trans.steps.sort.SortRows.processRow(SortRows.java:426)

2018/06/11 22:08:14 - Sort by Zip code.0 - at org.pentaho.di.trans.steps.RunThread.run(RunThread.java:62)

simple_transformation

100%

cities → Filter NY → Sort by Zip code → NY cities

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

First rows Last rows Off

#	CITY	STATE	POSTALCODE
1	ACRA	NY	12405
2	ADAMS	NY	13605
3	ADAMS CENTER	NY	13606
4	ADIRONDACK	NY	12808

Text file output

Step name NY cities

File Content Fields

Filename C:/Pentaho/data/ny_cities Browse...

Pass output to servlet

Create Parent folder

Do not create file at start

Accept file name from field?

File name field

Extension txt

Include stepnr in filename?

Include partition nr in filename?

Include date in filename?

Include time in filename?

Specify Date time format

Date time format

Show filename(s)...

Add filenames to result

Help OK Cancel

Run Options

Run configuration: **Pentaho local**

Options

Clear log before running Log level: **Basic**

Enable safe mode

Gather performance metrics

Parameters Variables

Variable	Value
FILENAME	
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
OUTPUT_FOLDER	C:/PDI/OUTPUT

Always show dialog on run

? Help **R**un **C**ancel

Parameters Variables

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
OUTPUT_FOLDER	C:/PDI/OUTPUT

Text file output

Step name NY cities

File Content Fields

Filename Browse...

Pass output to servlet java.class.path

Create Parent folder java.class.version

Do not create file at start java.endorsed.dirs

Accept file name from field? java.ext.dirs

File name field java.home

Extension java.io.tmpdir

Include stepnr in filename? java.library.path

Include partition nr in filename? java.naming.factory.initial

Include date in filename? java.runtime.name

Include time in filename?

Specify Date time format

The value of variable 'java.home' is :
C:\Java\jdk1.8.0_151\jre

Transformation properties

Transformation Parameters Logging Dates Dependencies Miscellaneous Monitoring

Parameters :

#	Parameter	Default Value	Description
1	SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/files	

OK SQL Cancel

Run Options



Run configuration:

Pentaho local

Options

Clear log before running

Log level: Basic

Enable safe mode

Gather performance metrics

Parameters Variables

Parameter	Default value	Value
SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/files	

Arguments (legacy)

Always show dialog on run

Help

Run

Cancel

Parameters Variables

Parameter	Default value	Value
SAMPLES_DIR	C:/Pentaho/pdi_ce_8.1/samples/transformations/files	c:/samplefiles

Arguments (legacy)

Chapter 3: Extracting Data

```
C:\data\tomslee_airbnb_amsterdam_0025_2014-05-24.csv - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help

tomslee_airbnb_amsterdam_0025_2014-05-24.csv x
1 room_id,host_id,room_type,borough,neighborhood,reviews,overall_satisfaction,accommodates,bedrooms,price,minstay,latitude,longitude,last_modified
2 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
3 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
4 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
5 15865,59484,Private room,,Centrum Oost,1,5.0,4,1.0,151.0,3,52.363786,4.893392,2014-05-24 21:52:07.540
6 20168,59484,Private room,,Centrum Oost,4,4.0,2,1.0,90.0,3,52.365087,4.893541,2014-05-24 20:36:24.643
7 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
8 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
9 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
10 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 18:25:26.164
11 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
12 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
13 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
14 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
15 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 Text
```

Text file input

Step name: amsterdam 0025_2014-05-24

File | Content | Error Handling | Filters | Fields | Additional output fields

File or directory: Add Browse...

Regular Expression:

Exclude Regular Expression:

Selected files:	#	File/Directory	Wildcard (RegExp)	Exclude wildcard	Re
	1	c:\samples\amsterdam\tomslee_airbnb_amsterdam_0025_2014-05-24.csv			N

Accept filenames from previous steps

Accept filenames from previous step

Pass through fields from previous step

Step to read filenames from:

Field in the input to use as filename:

Show filename(s)... Show file content Show content from first data line

Help OK Preview rows Cancel

Text file input

Step name: amsterdam 0025_2014-05-24

File | Content | Error Handling | Filters | Fields | Additional output fields

Filetype: CSV

Separator: , Insert TAB

Enclosure: "

Allow breaks in enclosed fields?

Escape:

Header Number of header lines: 1

Footer Number of footer lines: 1

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

Text file input

Step name: amsterdam 0025_2014-05-24

File | Content | Error Handling | Filters | Fields | Additional output fields

#	Name	Type	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	Number	##		3	1
1	price	Number	##		5	1
1	minstay	Integer	#		15	0
1	latitude	Number	##		9	6
1	longitude	Number	##		8	6
1	last_modified	Date	yyy-MM-dd HH:mm:ss.SSS			

< | >

Get Fields Minimal width

Help OK Preview rows Cancel

File | Content | Error Handling | Filters | Fields | Additional output fields

#	Name	Type	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	yyy-MM-dd			

< | >

Get Fields Minimal width

Examine preview data

Rows of step: amsterdam 0025_2014-05-24 (1000 rows)

#	room_id	host_id	room_type	borou	neighborhood	reviews	overall_sa...	accomm...	bedrooms	price	minstay	latitude	longitude	date_of_survey
1	2818	3159	Private room	<null>	Oostelijk Havengebied / Indis...	77	5	2	1	90	3	52.4	4.9	2014-05-24
2	6243	3813	Private room	<null>	Oostelijk Havengebied / Indis...	116	4.5	4	1	75	2	52.4	4.9	2014-05-24
3	15061	59297	Private room	<null>	Westerpark	53	5	4	1	66	2	52.4	4.9	2014-05-24
4	15865	59484	Private room	<null>	Centrum Oost	1	5	4	1	151	3	52.4	4.9	2014-05-24
5	20168	59484	Private room	<null>	Centrum Oost	4	4	2	1	90	3	52.4	4.9	2014-05-24
6	20522	77484	Entire home/apt	<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>	Oud Oost	6	4	6	2	153	3	52.4	4.9	2014-05-24
8	23651	9616	Private room	<null>	De Pijp / Rivierenbuurt	36	5	3	1	122	6	52.3	4.9	2014-05-24
9	25488	106225	Entire home/apt	<null>	Oostelijk Havengebied / Indis...	46	4.5	6	3	229	3	52.4	4.9	2014-05-24
10	27573	119217	Private room	<null>	Centrum Oost	53	4.5	2	1	174	3	52.4	4.9	2014-05-24
11	27886	97647	Entire home/apt	<null>	Centrum West	4	5	2	1	222	2	52.4	4.9	2014-05-24
12	28658	123414	Private room	<null>	De Baarsjes / Oud West	161	4.5	4	1	92	2	52.4	4.9	2014-05-24

Close Show Log

File or directory

Regular Expression

Exclude Regular Expression

Selected files:

#	File/Directory	Wildcard (RegExp)	Exclude wildcard
1	C:\samples\amsterdam\tomslee_airbnb_amsterdam_0080_2015-01-19.csv		
2	C:\samples\amsterdam\tomslee_airbnb_amsterdam_0106_2015-03-17.csv		
3	C:\samples\amsterdam\tomslee_airbnb_amsterdam_0244_2015-12-16.csv		

Delete Edit

#	File/Directory	Wildcard (RegExp)	Exclude wildcard
1	\$(samplefiles)\amsterdam/	tomslee_airbnb_amsterdam_*.2015.*.csv	

Delete

Files read

Filter:

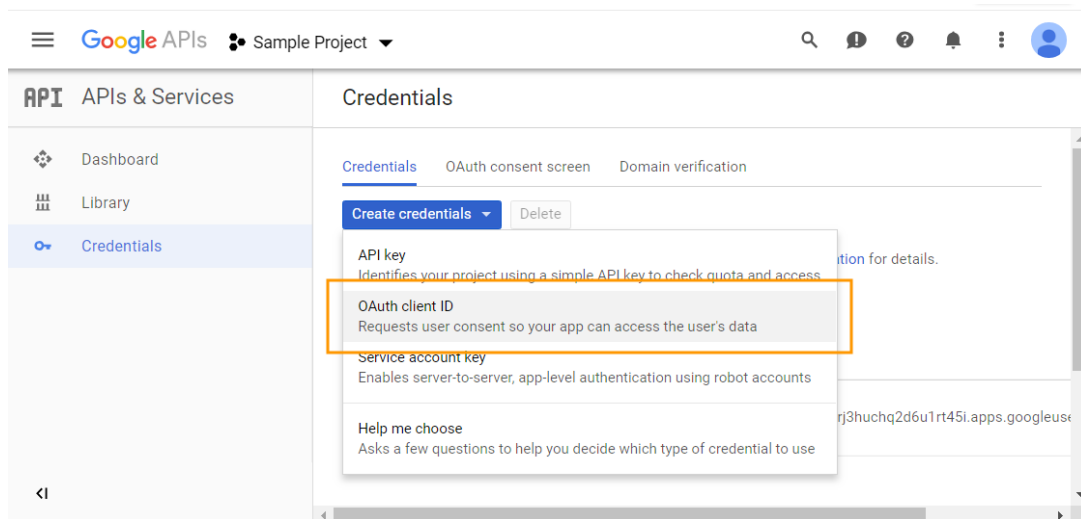
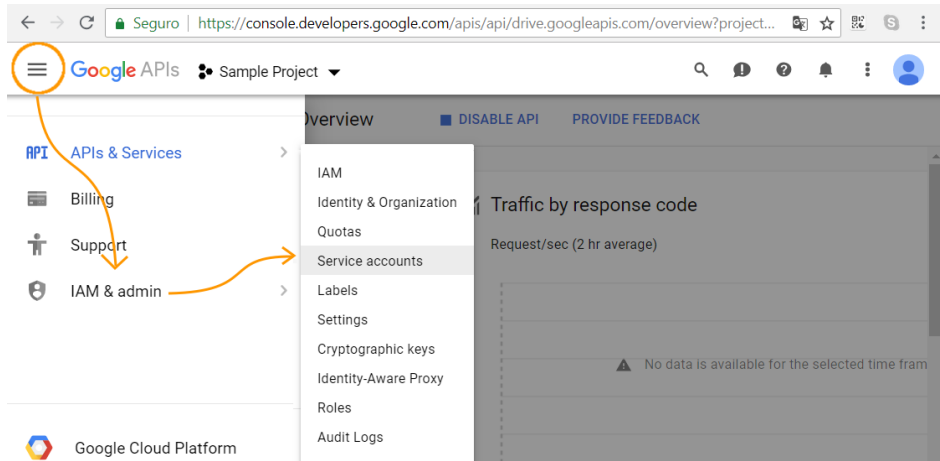
Files read:

```
file:///C:/Pentaho/sampledata/amsterdam/tomslee_airbnb_amsterdam_0080_2015-01-19.csv
file:///C:/Pentaho/sampledata/amsterdam/tomslee_airbnb_amsterdam_0106_2015-03-17.csv
file:///C:/Pentaho/sampledata/amsterdam/tomslee_airbnb_amsterdam_0244_2015-12-16.csv
```

Close

Show filename(s)... Show file content Show content from first data line

OK Preview rows Cancel






Credentials

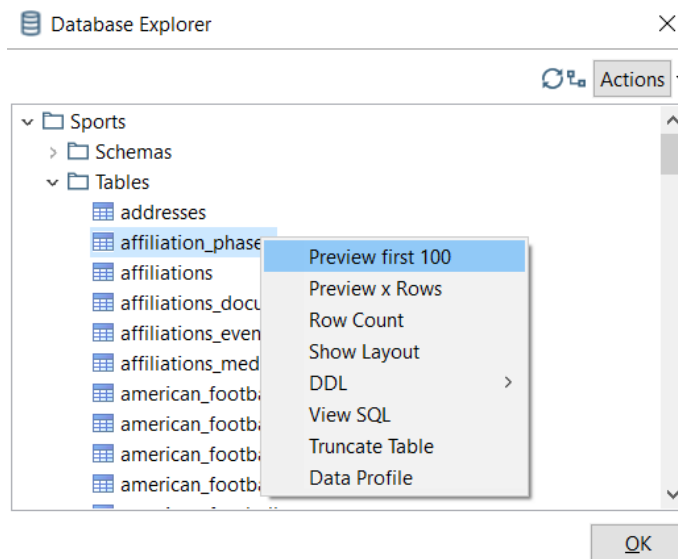
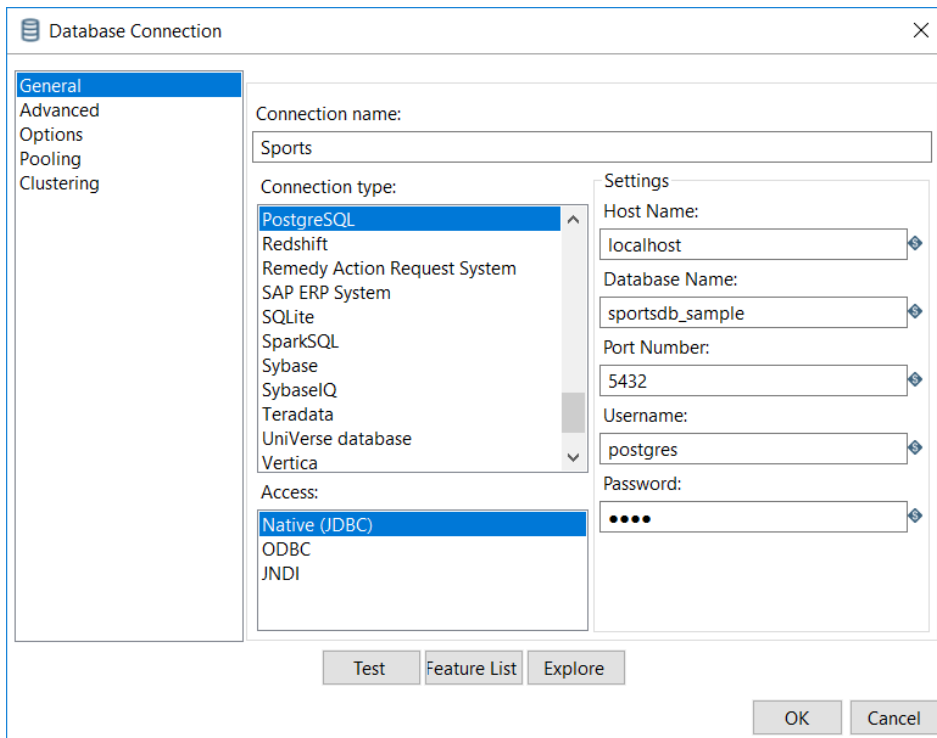
[Credentials](#) [OAuth consent screen](#) [Domain verification](#)

[Create credentials](#) [Delete](#)

Create credentials to access your enabled APIs. [Refer to the API documentation](#) for details.

OAuth 2.0 client IDs

<input type="checkbox"/>	Name	Creation date	Type	Client ID	
<input type="checkbox"/>	other	Jun 17, 2018	Other	[REDACTED]	  



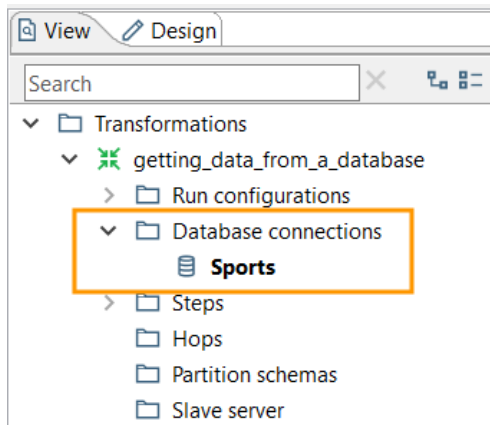


Table input

Step name Injuries

Connection Sports

Edit... New... Wizard...

SQL

```
SELECT
  full_name
  , injury_type
  , to_char(start_date_time,
FROM injury_phases i
JOIN display_names n
  ON i.person_id = n.id
  AND entity_type = 'persons'
  AND start_date_time BETWEEN
ORDER BY full_name
  , injury_type
```

Line 1 Column 0

Enable lazy co

Replace variables i

Insert data fr

Execute for ea

Examine preview data

Rows of step: Injuries (53 rows)

#	full_name	injury_type	injury_date
1	Adam Jones	calf	2007-07-31
2	Adrian Beltre	shoulder	2007-07-29
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
11	Chad Qualls	lower-back	2007-07-29
12	Chase Headley	elbow	2007-07-05
13	CJ Wilson	hamstring	2007-07-19

Close Show Log

Limit size 0

Help

OK Preview Cancel

✖ Step fields and their origin

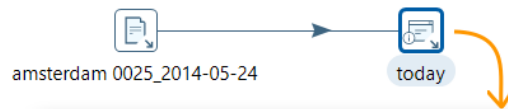
Step name: Injuries

Fields:

#	Fieldname	Type	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

Edit origin step

Cancel



Get System Data

Step name:

Fields:

#	Name	Type
1	today	system date (fixed)

Help OK Preview rows Cancel

Examine preview data

Rows of step: today (1000 rows)

#	roo...	host_id	room_type	bo...	neighborhood	reviews	ov...	acco...	be...	price	m...	latit	longi...	last_modified	today
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

Close Stop Get more rows

Get Variable

Step name: PDI info

Fields:

#	Name	Variable	Type	Format	Length	Precision	Currency
1	PDI_VERSION	\${Internal.Kettle.Version}	String				
2	PDI_BUILD_VERSION	\${Internal.Kettle.Build.Version}	String				
3	PDI_BUILD_DATE	\${Internal.Kettle.Build.Date}	String				

Buttons: Help, OK, Preview, Get variables, Cancel

Examine preview data

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

Buttons: Close, Show Log

Select / Rename values

Step name: Select values

Select & Alter Remove Meta-data

Fields:

#	Fieldname	Rename to	Length	Precision
1	room_id	ID		
2	room_type			
3	neighborhood			
4	accommodates			
5	overall_satisfaction			
6	price			

Buttons: Get fields to select, Edit Mapping

Include unspecified fields, ordered by name

Buttons: Help, OK, Cancel

Step fields and their origin

Step name: Select values

Fields:

#	Fieldname	Type	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

Examine preview data

Rows of step: Select values (1000 rows)

#	ID	room_type	neighborhood	accommodates	overall_satisfaction	price
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

Select / Rename values

Step name: Select values 2

Select & Alter Remove Meta-data

Fields:

#	Fieldname	Rename to	Length	Precision
1	room_id	ID		
2	room_type			
3	neighborhood			
4	accommodates			
5	overall_satisfaction			
6	price			
7	name	description		

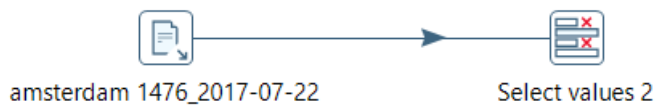
Include unspecified fields, ordered by name

Examine preview data

Rows of step: Select values (1000 rows)

#	ID	room_type	neighborhood	accommodates	overall_satisfaction	price
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

Close Stop Get more rows



amsterdam

Split hop?

Do you want to split this hop?
Select values --> Dummy (do nothing) (enabled)

Don't ask again

Yes No

Add constant values

Step name:

Fields:

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	description	String							not available	

Examine preview data

Rows of step: Dummy (do nothing) (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

Field splitter

Step name: Split City

Field to split: City

Delimiter: ,

Enclosure:

Fields

#	New field	ID	Remove ID?	Type	Length	Precision	Format	Group	Decimal	Currency	Nullif	Default	Trim type
1	city_name		N	String									both
2	country_name		N	String									both

Help OK Cancel

Examine preview data

Rows of step: Split City (193 rows)

#	Rank	city_name	country_name	Cost_of_Li...	Rent_Index	Cost_of_Livin...	Groceries_...	Restaurant_P...	Local_Purchas...	
1	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	
3	3	Basel	Switzerland	130.68	49.68	91.61	127.54	127.22	139.01	
4	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	6	Reykjavik	Iceland	123.78	57.25	91.70	118.15	133.19	88.95	
7	7	Stavanger	Norway	118.61	39.83	80.61	106.09	143.54	118.14	
8	8	Lugano	Switzerland	118.24	52.91	86.73	117.74	122.30	119.86	
9	9	Oslo	Norway	117.23	49.28	84.46	112.42	124.09	102.94	
1	10	Trondheim	Norway	114.22	42.39	79.58	103.50	134.76	108.29	

Close

Step name **Split Food**

Settings Content

Step settings

Field to evaluate **Food**

Result field name **result**

→ Create fields for capture groups

Replace previous fields

Regular expression : Test regEx

```
(.+)\(([0-9.]+)( liter| g| kg| head|)\).*
```

Use variable substitution

Capture Group Fields

#	New field	Type	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

Help

OK Cancel

Rows of step: Split Food (14 rows)

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

Close

Calculator

— □ ×

Step name

Fields:

#	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			N

Help

OK

Cancel

Examine preview data

— □ ×

Rows of step: food_index (193 rows)

#	Rank	city_name	country_name	Cost_of_L...	Rent_Index	Cost_of_Li...	Groceries_Index	Restaurant_Price_Index	Local_Purc...	two	temp	food_index
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

Close

User Defined Java Expression

— □ ×

Step name

Fields:

#	New field	Java expression	Value type	Length	Precision	Replace value
1	food_index	(Groceries_Index + Restaurant_Price_Index)/2	Number			

Help

OK

Cancel

Sort rows

— □ ×

Step name

Sort directory

TMP-file prefix

Sort size (rows in memory)

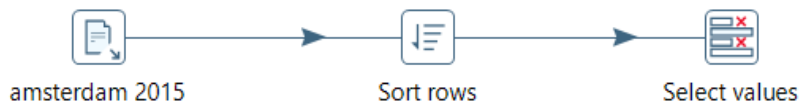
Free memory threshold (in %)

Compress TMP Files?

Only pass unique rows? (verifies keys only)

Fields :

#	Fieldname	Ascending	Case sensitive compare?	Sort based on current locale?	Collator Strength	Presorted?
1	neighborhood	Y	N	N	0	N
2	room_type	Y	N	N	0	N
3	reviews	N	N	N	0	N



Select / Rename values

— □ ×

Step name

Select & Alter Remove Meta-data

Fields :

#	Fieldname	Rename to	Length	Precision
1	neighborhood			
2	room_type			
3	reviews			

Include unspecified fields, ordered by name ←

Examine preview data



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>	29106854
2	Bijlmer Centrum	Private room	0	2	1	<null>	26258715
3	Bijlmer Centrum	Private room	0	3	1	<null>	26258715
4	Bos en Lommer	Entire home/apt	308	2	0	<null>	732783
5	Bos en Lommer	Entire home/apt	265	2	0	<null>	732783
6	Bos en Lommer	Entire home/apt	255	2	0	<null>	732783
7	Bos en Lommer	Entire home/apt	243	2	0	<null>	732783
8	Bos en Lommer	Entire home/apt	197	2	0	<null>	732783

Close Stop Get more rows

Examine preview data



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

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

Close

Group By

Step name:

Include all rows?

Temporary files directory:

TMP-file prefix:

Add line number, restart in each group

Line number field name:

Always give back a result row

The fields that make up the group:

#	Group field
1	country_name

Aggregates:

#	Name	Subject	Type	Value
1	cities	city_name	Concatenate strings separated by ,	
2	avg_Cost_of_Living_Index	Cost_of_Living_Index	Average (Mean)	

Examine preview data

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	28.06
7	33	Leuven	Belgium	85.31	29.48
8	34	Gent	Belgium	85.16	26.92
9	41	Brussels	Belgium	83.65	35.76
1	162	Sarajevo	Bosnia And Herzegovina	42.50	10.13

Examine preview data



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, Banja 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

Close

Group By



Step name

Include all rows?

Temporary files directory

TMP-file prefix

Add line number, restart in each group

Line number field name

Always give back a result row

The fields that make up the group:

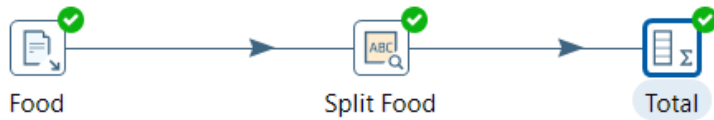
#	Group field
1	

Leave this section empty



Aggregates :

#	Name	Subject	Type	Value
1	total	Price	Sum	



Examine preview ...

Rows of step: Total (1 rows)

#	total
1	6.07

Close

Filter rows

Step name:

Send 'true' data to step:

Send 'false' data to step:

The condition:

To edit a subcondition, simply click on it +

Help OK Cancel

Examine preview data

Rows of step: preview (644 rows)

#	room_id	host_id	room_type	borou	neighborhood	reviews	overall_satisfaction	accommodates	bedrooms	price	minsta
1	180424	864444	Entire home/apt	<null>	Centrum West	62	4.5	6	4	321	
2	218994	888292	Entire home/apt	<null>	Noord-West / Noord-Midden	84	5	6	4	271	
3	256670	1350388	Entire home/apt	<null>	De Baarsjes / Oud West	3	4.5	5	4	178	
4	283170	1451657	Entire home/apt	<null>	Noord-West / Noord-Midden	41	4.5	16	5	357	
5	356929	728160	Entire home/apt	<null>	Watergraafsmeer	29	5	4	5	250	
6	438688	2178991	Entire home/apt	<null>	Buitenveldert / Zuidas	2	5	7	4	286	
7	510836	1826139	Entire home/apt	<null>	Centrum West	46	5	15	5	714	
8	513743	2531171	Entire home/apt	<null>	Oostelijk Havengebied / Indi...	12	5	9	5	500	

Close

Filter rows

Step name:

Send 'true' data to step:

Send 'false' data to step:

The condition:

bedrooms > [3]

AND

null = []

Help OK Cancel

Filter rows

Step name:

Send 'true' data to step:

Send 'false' data to step:

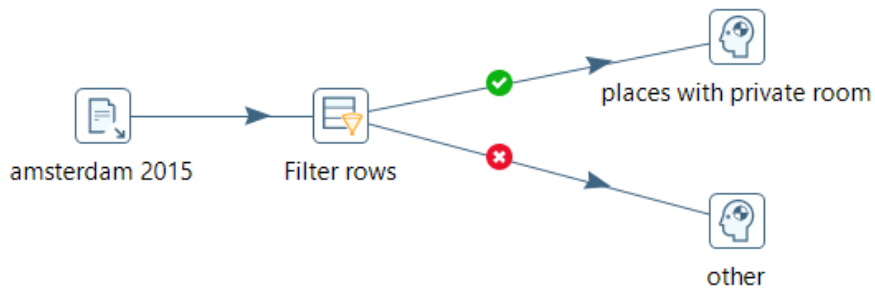
The condition:

bedrooms > [3]

OR

accommodates > [4]

Help OK Cancel



Examine preview data

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

#	room_id	host_id	room_type	borough	neighborhood	reviews
1	2818	3159	Private room	<null>	Oostelijk Havengebied / Indische Buurt	102
2	7231	18481	Private room	<null>	Watergraafsmeer	17
3	15061	59297	Private room	<null>	Westerpark	58
4	20168	59484	Private room	<null>	Centrum Oost	13
5	23651	9616	Private room	<null>	De Pijp / Rivierenbuurt	36
6	28658	123414	Private room	<null>	De Baarsjes / Oud West	207
7	28871	124245	Private room	<null>	Centrum Oost	2
8	29051	124245	Private room	<null>	Centrum Oost	85

Close Stop Get more rows

Execution Results

#	Stepname	Copyn	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	0.4s	60,221	-
2	Filter rows	0	25350	25350	0	0	0	0	0	Finished	0.4s	59,368	-
3	other	0	20654	20654	0	0	0	0	0	Finished	0.5s	44,900	-
4	places with private room	0	4696	4696	0	0	0	0	0	Finished	0.5s	10,209	-

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	Istanbul[a]	Turkey	15,029,231	31 December 20	<null>	Halic.png	41.013611°N 28.955°E	[4]
2	2	Moscow[b]	Russia	13,197,596	1 January 2017	<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>	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	Siegessauele 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>	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]
10	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

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	Istanbul[a]	Turkey	15,029,231	31 December 20	<null>	Halic.png	41.013611°N 28.955°E	[4]
2	2	Moscow[b]	Russia	13,197,596	1 January 2017	<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>	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	Siegessauele 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>	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]
10	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

Replace in string

Step name: remove characters

Fields string

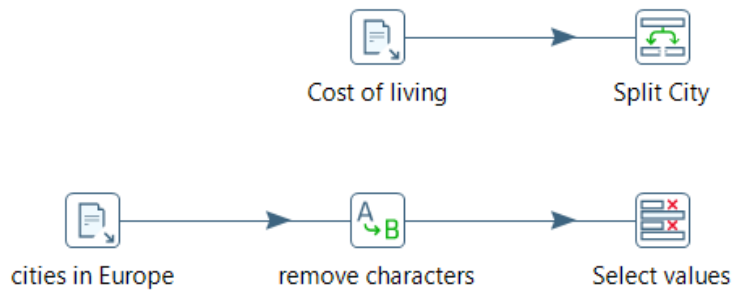
#	In stream field	Out stream field	use RegEx	Search	Replace with	Set empty string?	Replace with...	Whole Word	Case sensitive	Is Unicode
1	City		Y	\[.+\]		N		N	N	N

Help

OK

Get fields

Cancel



Stream Value Lookup

Step name: lk cost of living index

Lookup step: Split City

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

#	Field	LookupField
1	City	city_name
2	Country	country_name

Specify the fields to retrieve :

#	Field	New name	Default	Type
1	Cost_of_Living_Index			Number

Preserve memory (costs CPU)

Key and value are exactly one integer

Use sorted list (i.s.o. hashtable)

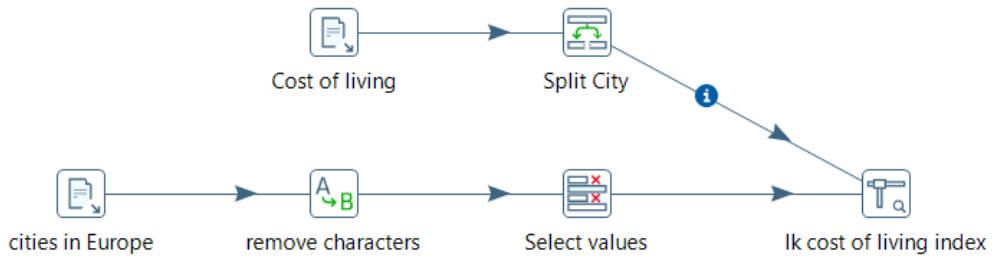
Help

OK

Cancel

Get Fields

Get lookup fields



Examine preview data

— □ ×

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

#	rank	City	Country	Official_population	Cost_of_Living_Index
1	1	Istanbul	Turkey	15,029,231	<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

Close

Step fields and their origin

— □ ×

Step name: lk cost of living index

Fields:

#	Fieldname	Type	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	-	-	lk cost of living index	normal	0.#####	\$

Edit origin step

Cancel

Add constant values



Step name

Fields :

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	type_persons	String							persons	N

Help

Examine preview data



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	

Database Value Lookup



Step name

Connection

Lookup schema

Lookup table

Enable cache?

Cache size in rows (0=cache)

Load all data from table

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

#	Table field	Comparator	Field1	Field2
1	id	=	person_id	
2	entity_type	=	type_persons	

Values to return from the lookup table :

#	Field	New name	Default	Type
1	language			String
2	full_name			String
3	first_name			String
4	middle_name			String
5	last_name			String

Do not pass the row if the lookup fails

Fail on multiple results?

Order by

Examine preview data



Rows of step: lk 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>	Martinez
2	186	fingers	2007-07-15	persons	en-US	David Dellucci	David	<null>	Dellucci
3	198	shoulder	2007-07-15	persons	en-US	Matt Miller	Matt	<null>	Miller
4	213	elbow	2007-07-16	persons	en-US	Tony Clark	Tony	<null>	Clark
5	378	elbow	2007-07-24	persons	en-US	Edwin Jackson	Edwin	<null>	Jackson
6	391	lower-back	2007-07-29	persons	en-US	Chad Qualls	Chad	<null>	Qualls
7	400	elbow	2007-07-21	persons	en-US	Andy LaRoche	Andy	<null>	LaRoche
8	407	lower-back	2007-07-15	persons	en-US	Barry Bonds	Barry	<null>	Bonds

Chapter 5: Loading Data

Text file output

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Step name listing

#	Name	Type	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	

Get Fields Minimal width

Help

OK

Cancel

Execution Results

🔍

Logging Execution History Step Metrics Performance Graph Metrics Preview data

#	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	-

Table output

Step name

Connection

Target schema

Target table

Commit size

Truncate table

Ignore insert errors

Specify database fields

Main options Database fields

Fields to insert:

#	Table field	Stream field
1	person_id	person_id
2	injury_type	injury_type
3	injury_side	injury_side
4	start_date_time	injury_date

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

#	Stepname	Copynr	Read	Written	Input	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	-

Update

Step name: Update injury details

Connection: Sports

Target schema:

Target table: injury_phases

Commit size: 100

Use batch updates?

Skip lookup

Ignore lookup failure? Flag field (key found)

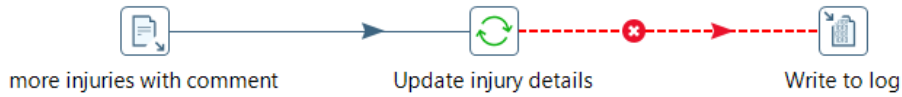
The key(s) to look up the value(s):

#	Table field	Comparator	Stream field1	Stream field2
1	person_id	=	person_id	
2	start_date_time	=	injury_date	

Update fields:

#	Table field	Stream field
1	injury_comment	comment

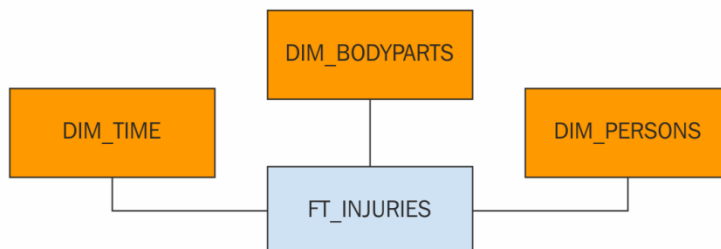
Buttons: Help, OK, Cancel, SQL



Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)	input/output
1	more injuries with comment	0	0	4	5	0	1	0	0	Finished	0.0s	454	-
2	Update injury details	0	4	3	4	0	3	1	0	Finished	0.3s	14	-
3	rejected lines	0	1	1	0	0	0	0	0	Finished	0.3s	4	-



Generate Rows

Step name: start_date

Limit: 1

Never stop generating rows:

Interval in ms (delay): 5000

Current row time field name: now

Previous row time field name: FiveSecondsAgo

Fields:

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	start_date	Date	yyyy-MM-dd						2018-01-01	N

Help OK Preview Cancel

Calculator

Step name: date attributes

Fields:

#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask
1	a_date	Date A + B Days	start_date	delta		Date			N	yyyyMMdd

Help OK Cancel

Examine preview data

Rows of step: date attributes (1000 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
10	2018-01-01	9	20180110

Close Stop Get more rows

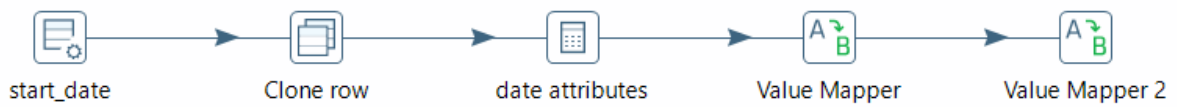
Calculator

Step name:

Fields:

#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask
1	a_date	Date A + B Days	start_date	delta		Date			N	yyyyMMdd
2	year	Year of date A	a_date			Integer			N	
3	month	Month of date A	a_date			Integer			N	
4	day	Day of month of date A	a_date			Integer			N	
5	week_day	Day of week of date A	a_date			Integer			N	

Help OK Cancel



Value Mapper

Step name:

Fieldname to use:

Target field name:

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

Help OK Cancel

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

Close Stop Get more rows

Select & Alter Remove Meta-data

Fields to alter the meta-data for :

#	Fieldname	Rename to	Type	Length	Precision	Binary to Normal?	Format	Date Format Lenient?
1	a_date		String			N	yyyyMMdd	N

Get fields to change

Select & Alter Remove Meta-data

Fields to alter the meta-data for :

#	Fieldname	Rename to	Type	Length	Precision	Binary to Normal?	Format	Date Format Lenient?
1	a_date		Number			N	#	N

Get fields to change

Specify database fields

Main options Database fields

Fields to insert:

#	Table field	Stream field
1	dateid	a_date
2	year	year
3	month	month
4	day	day
5	week_day	week_day
6	week_day_desc	week_day_desc
7	month_desc	month_desc

Get fields

Enter field mapping

Combination Lookup / Update

Step name:

Connection:

Target schema:

Target table:

Commit size: Cache size:

Pre-load the cache?

Key fields (to look up row in table):

#	Dimension field	Field in stream
1	bodypart	injury_type

Technical key field:

Creation of technical key

Use table maximum + 1

Use sequence

Use auto increment field

Remove lookup fields?

Use hashcode?

Hashcode field in table

Date of last update field (optional)

Examine preview data

Rows of step: SQL statement #1 (51 rows)

#	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

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

Keys		Fields	
Lookup/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

✖ Examine preview data

— □ ×

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>	^
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...	∨

Close

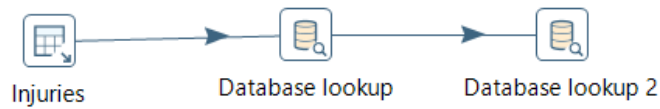
→ Version field

Stream Datefield

→ Date range start field Min. year

Use an alternative start date?

→ Table date range end Max. year



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	Type
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	Type
1	id	id_bodypart	0	Integer

Examine preview data



Rows of step: lk 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

Close

Specify database fields

Main options Database fields

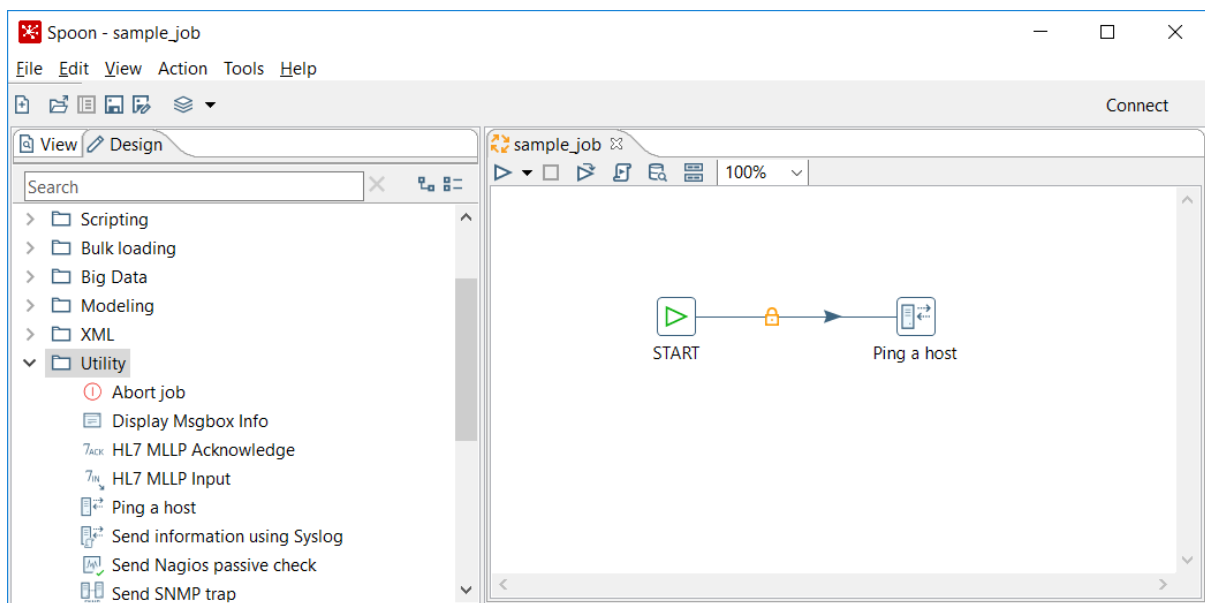
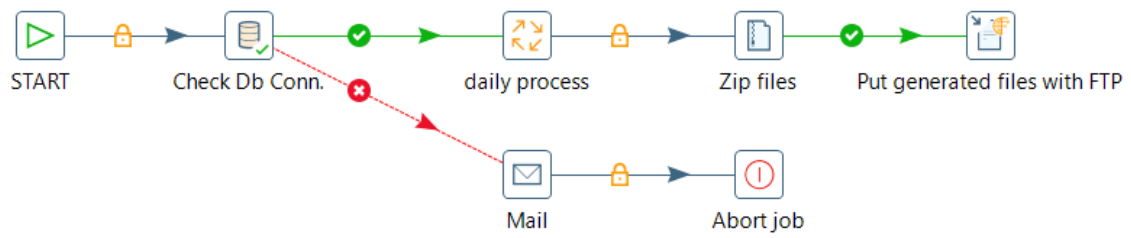
Fields to insert:

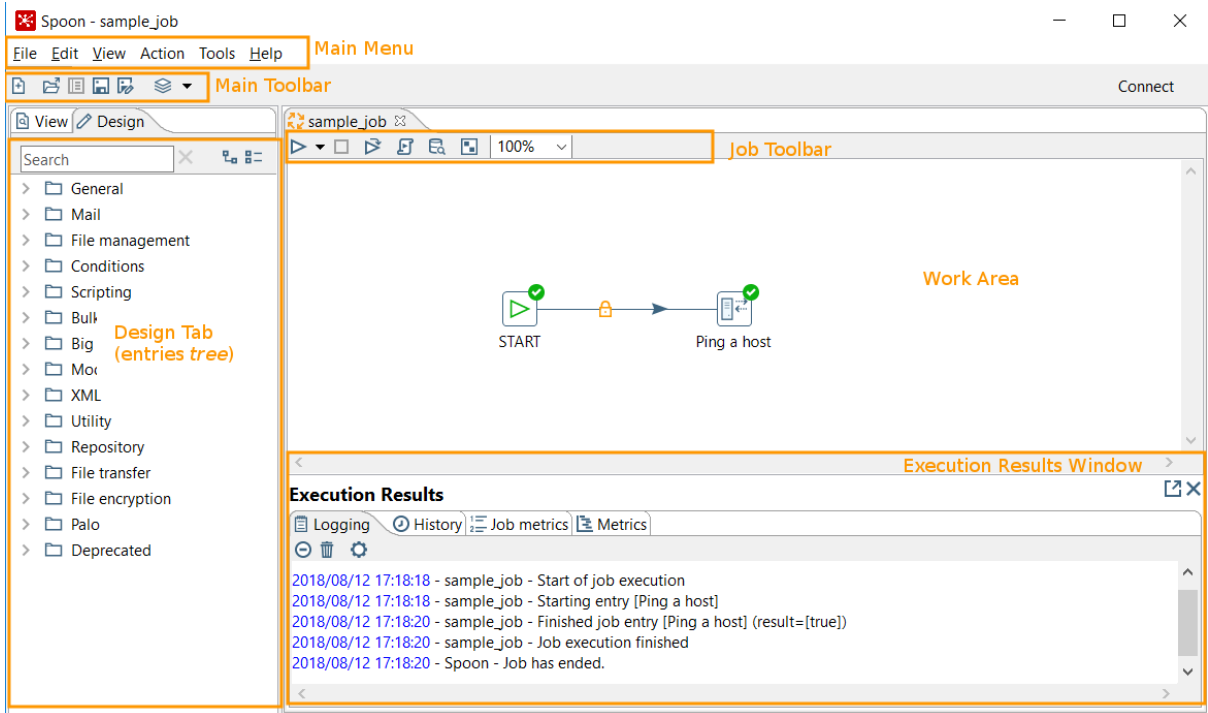
#	Table field	Stream field
1	id_person	id_person
2	id_bodypart	id_bodypart
3	date	injury_date
4	quantity	qty

Get fields

Enter field mapping

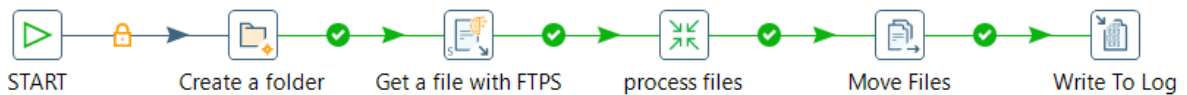
Chapter 6: Orchestrating Your Work

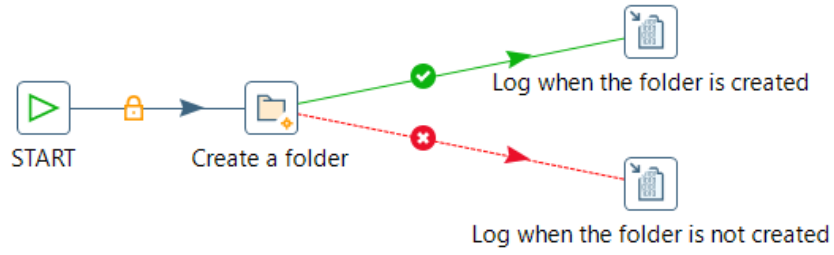




Execution Results

Job / Job Entry	Comment	Result	Reason	Filename	Nr	Log date
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





Run Options

Run configuration: Pentaho local

Options

Expand remote job Log level: Basic

Clear log before running Start job at:

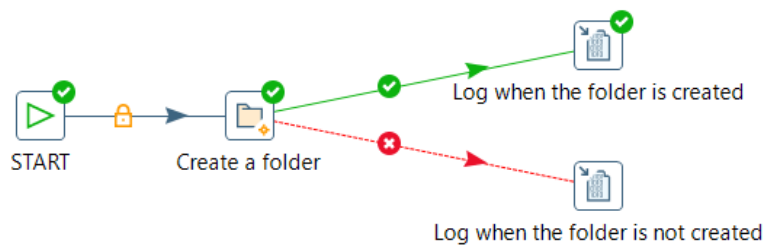
Enable safe mode

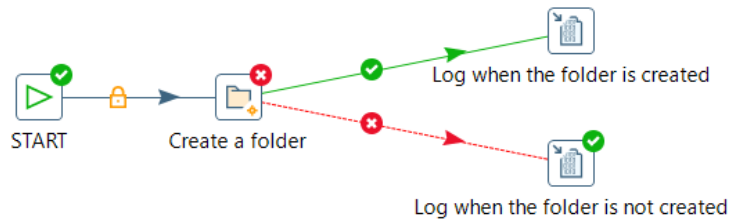
Gather performance metrics

Variable	Value
NEW_FOLDER	c:/pdi_logs

Always show dialog on run

Help Run Cancel





Execution Results

Job / Job Entry	Comment	Result	Reason	Filename
sample_job_run_upon_conditions				
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

Name of mail job entry:

Addresses Server **Email Message** Attached Files

SMTP Server

SMTP Server:

Port:

Authentication

Use authentication?

Authentication user:

Authentication password:

Use secure authentication?

Secure connection type:

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

Message

Subject: Hello from Spoon

Comment: This is the first email sent with PDI

Set Environment Variables

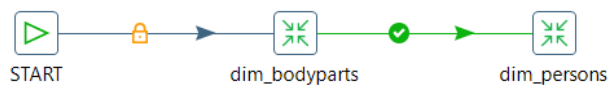
Step name: Set \${MAXDATE}

Apply formatting

Field values:

#	Field name	Variable name	Variable scope type	Default value
1	maxdate	MAXDATE	Valid in the root job	

Help OK Cancel Get Fields



Options Logging Arguments Parameters

Specify logfile

Logfile

Name:
 Browse...

Extension:

Log level:

Append logfile

Create parent folder

Include date in logfile

Include time in logfile

