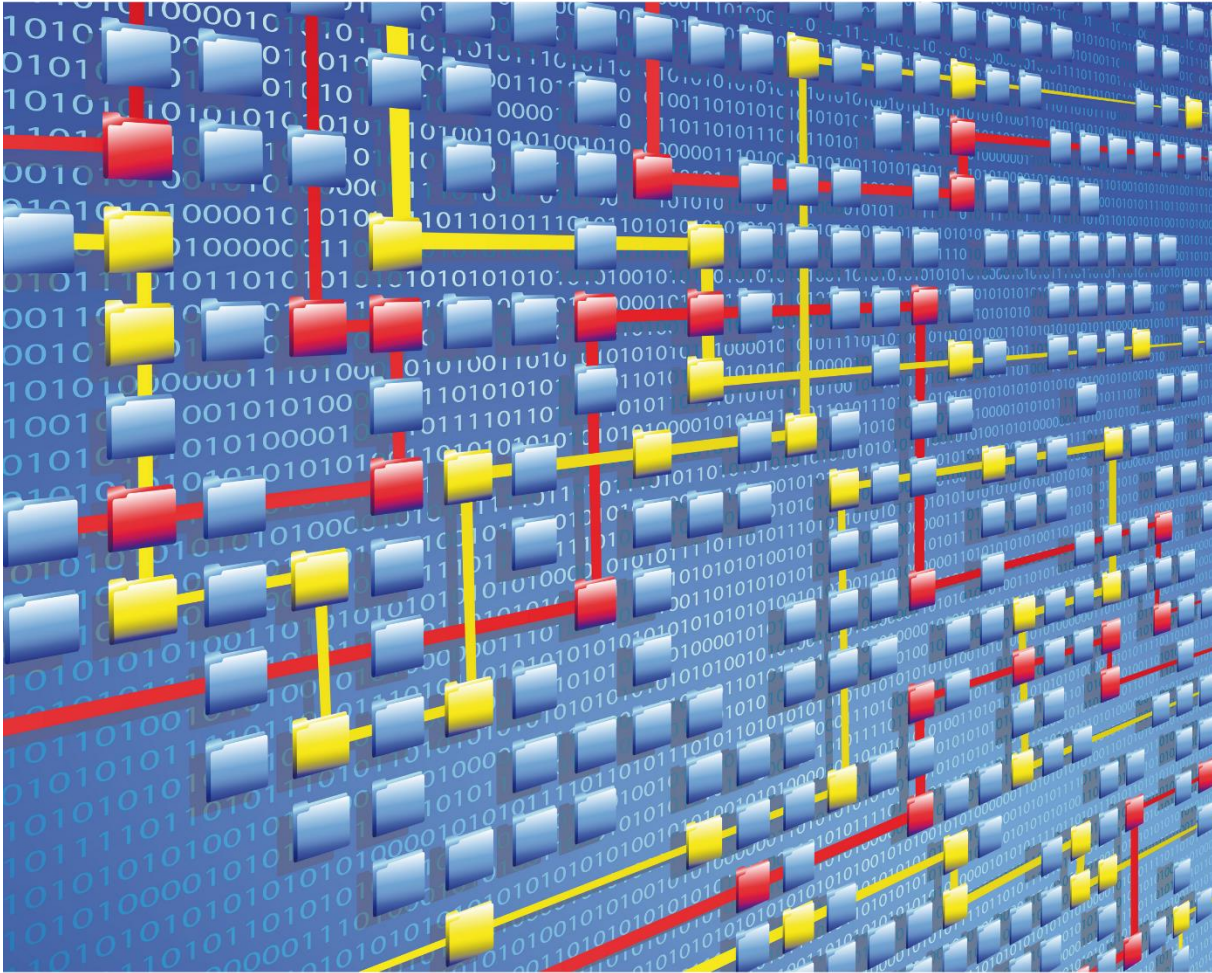


# IEEE Task Force on



# Process Mining

XES CERTIFICATION FOR  
CELONIS 4.2

# TABLE OF CONTENTS

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# TOOL

## Tool

### NAME

Celonis

### VENDOR

Celonis

### VERSION

4.2

### REQUESTED CERTIFICATION LEVELS

#### Import

Level A1, Level B1, Level C1, Level D1

#### Export

None. The export in Celonis is only possible in CPT format and not (YET!) in XES format.



# META

## Meta

### AUTHORS

Patrick Kroyer

### DATE

04.10.2017

### HISTORY

#### CHANGES

AUTHOR(S)	DATE	DESCRIPTION
<b>Patrick Kroyer</b>	04.10.2017	Creation of this document



# IMPORT

## Import

### REAL-LIFE LOGS

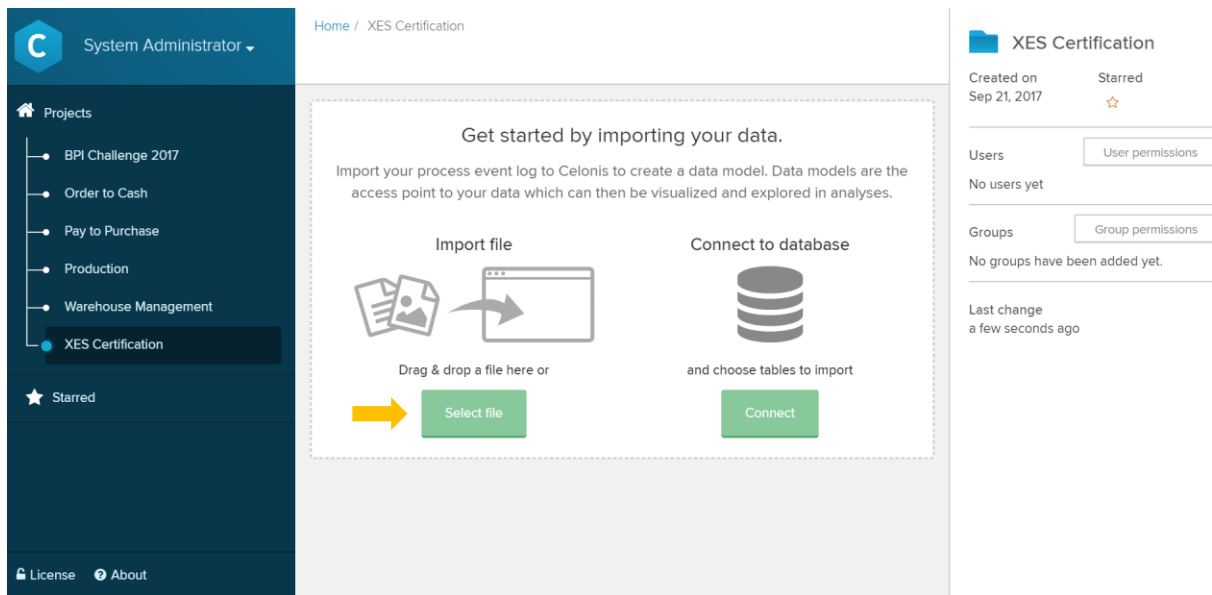
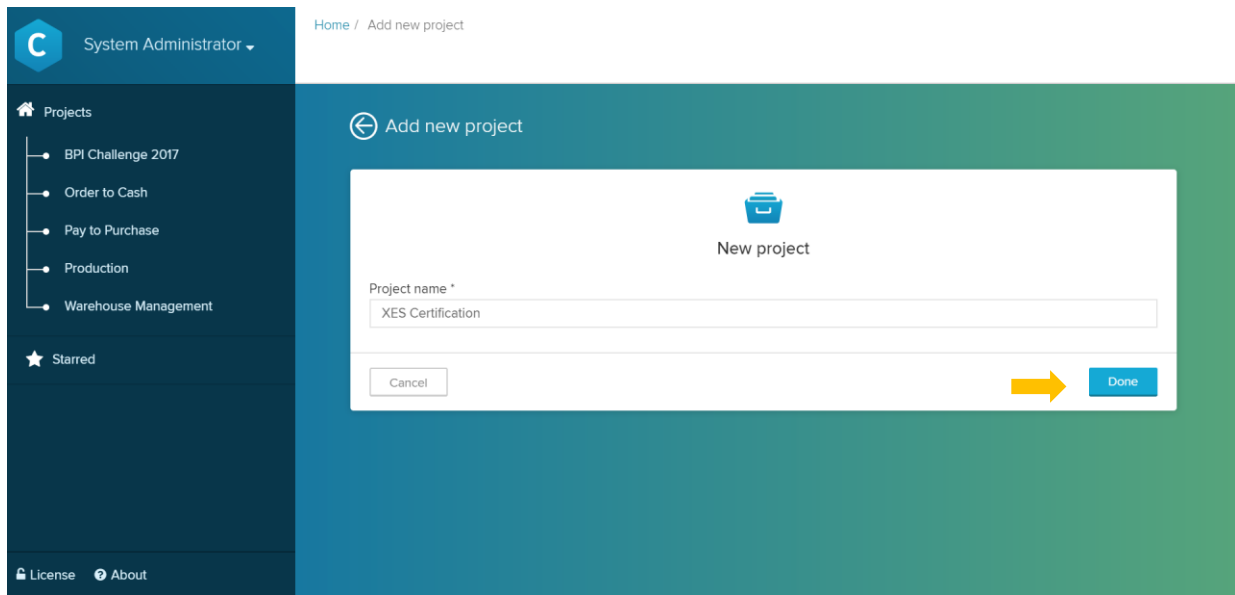
#### SANITIZED BPIC LOGS

	NAME	TRACES	EVENTS	SIZE IN KB
	<b>BPIC12</b>	13,087	262,200	72,363
	<b>BPIC13_closed_problems</b>	1,487	6,660	4,090
	<b>BPIC13_incidents</b>	7,554	65,533	38,627
	<b>BPIC13_open_problems</b>	819	2,351	1,370
	<b>BPIC15_1</b>	1,199	52,217	40,261
	<b>BPIC15_2</b>	832	44,354	33,616
	<b>BPIC15_3</b>	1,409	59,681	45,673
	<b>BPIC15_4</b>	1,053	47,293	36,131
	<b>BPIC15_5</b>	1,156	59,083	44,961
	<b>BPIC17 - Offer log</b>	42,995	193,849	107,557
	<b>BPIC17</b>	31,509	1,202,267	565,373

### BPIC12

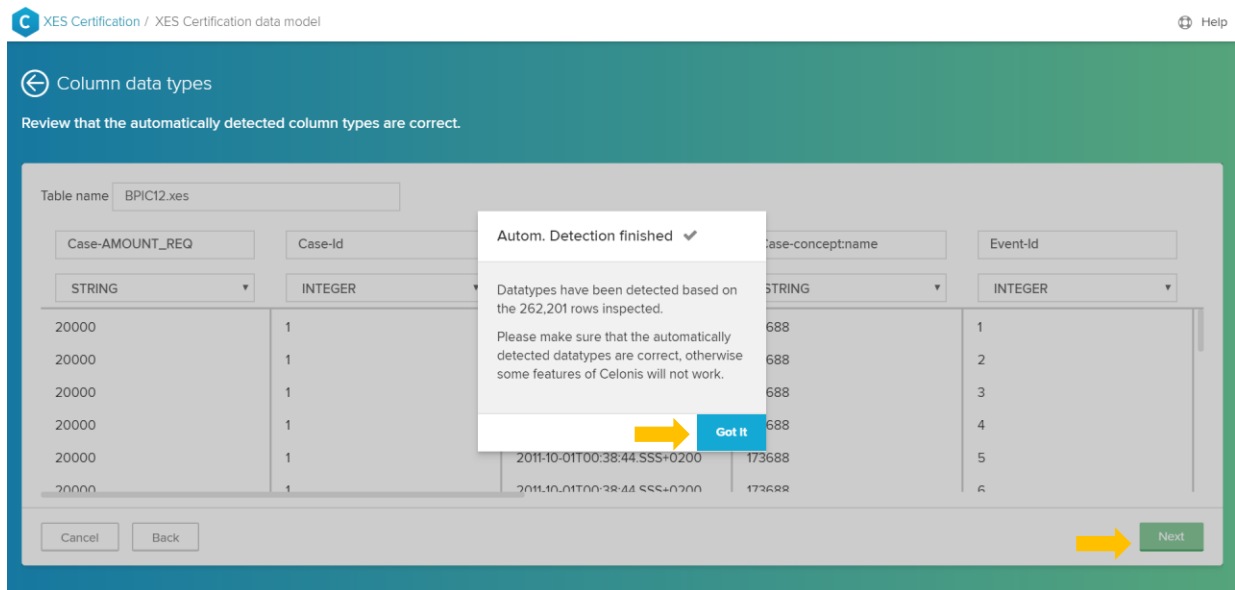
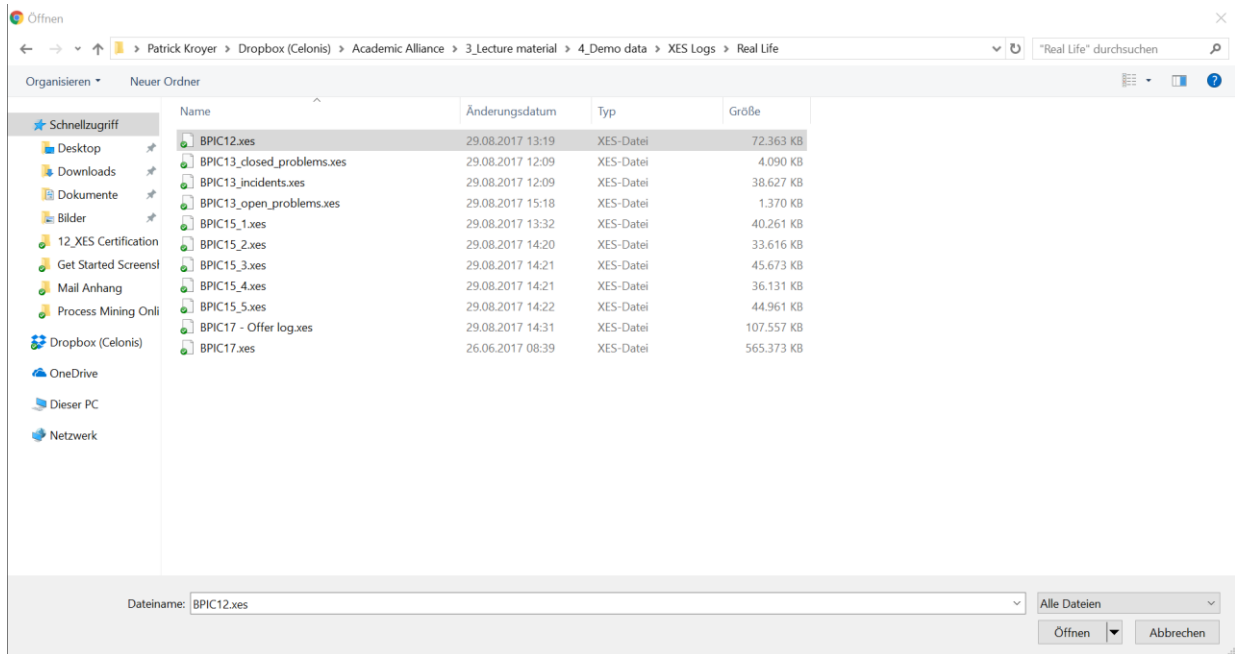
The screenshot displays the 'System Administrator' interface. On the left is a dark sidebar with a navigation menu containing items like 'BPI Challenge 2017', 'EXPORTED LOGS', 'Order to Cash', 'Play to Purchase', 'Production', 'SAP UCC', 'TEST1', 'Warehouse Management', 'XES Certification', 'AT-X2', and 'BPIC'. The main area is titled 'Projects' and features a search bar with the placeholder text 'Search for analyses, data models, folders. Use \* as search wildcard.' Below the search bar, a grid of project icons is shown, including 'BPI Challenge 2017', 'EXPORTED LOGS', 'Order to Cash', 'Play to Purchase', 'Production', 'SAP UCC', 'TEST1', 'Warehouse Management', and 'XES Certification'. A yellow arrow points to a 'New project +' button in the top right corner. At the bottom left of the interface, there are 'License' and 'About' links.

# IMPORT

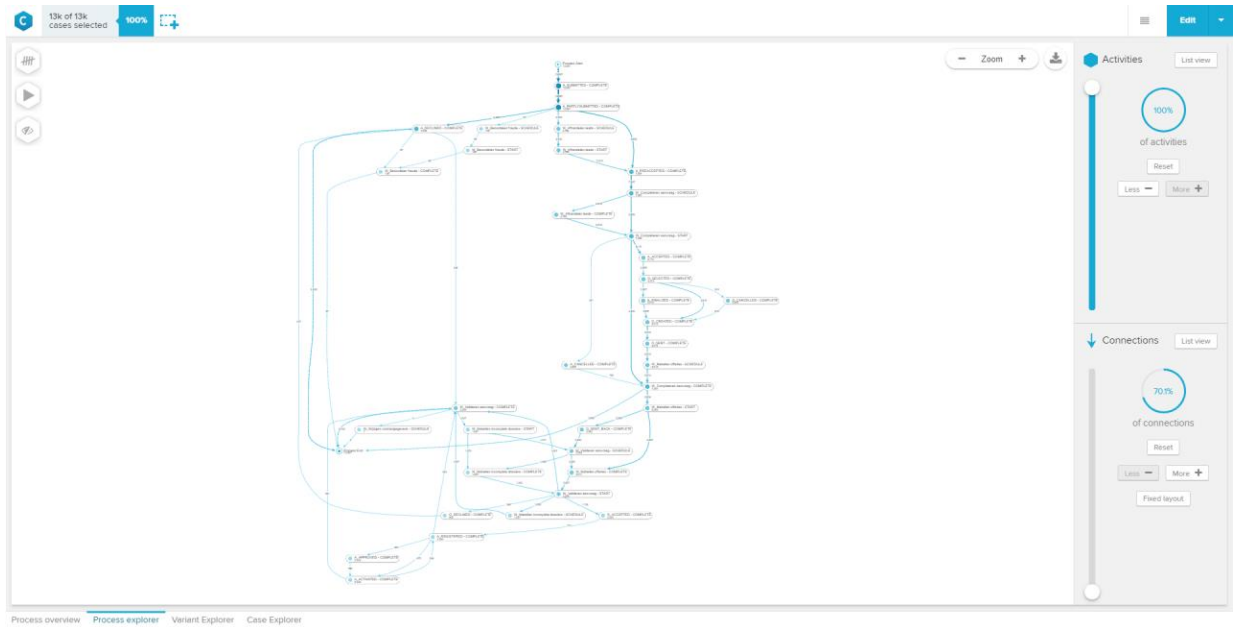


Do not worry if the field of the file upload looks a little bit different in your version. It is possible that there is only an "Import file" field.

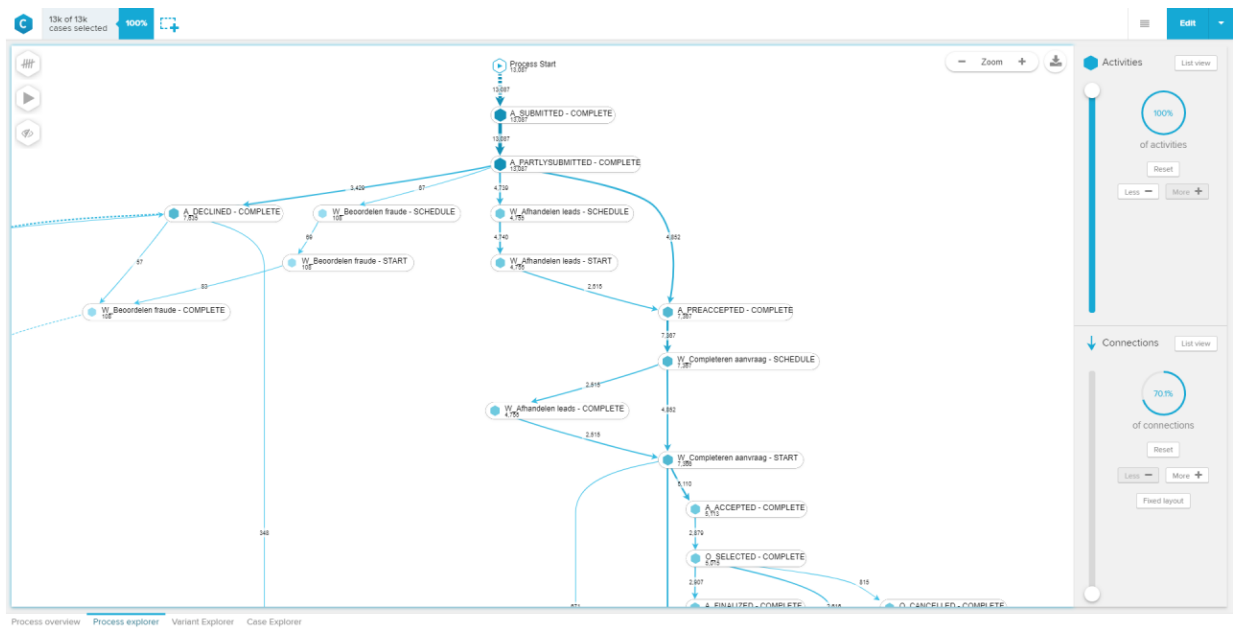
# IMPORT



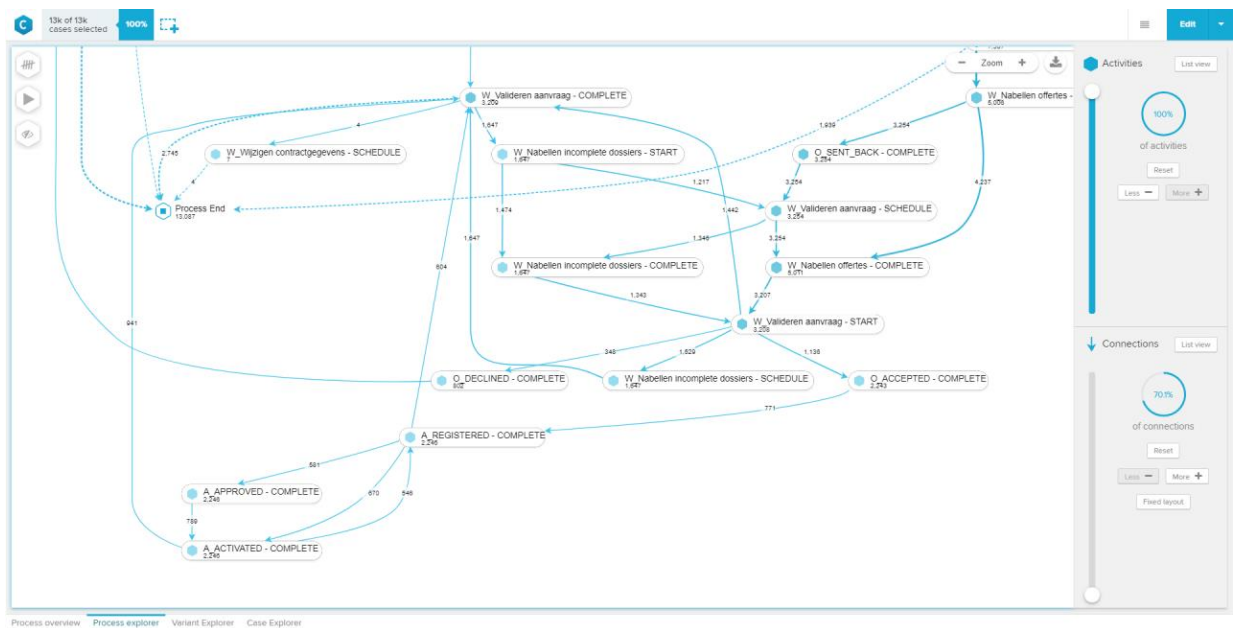
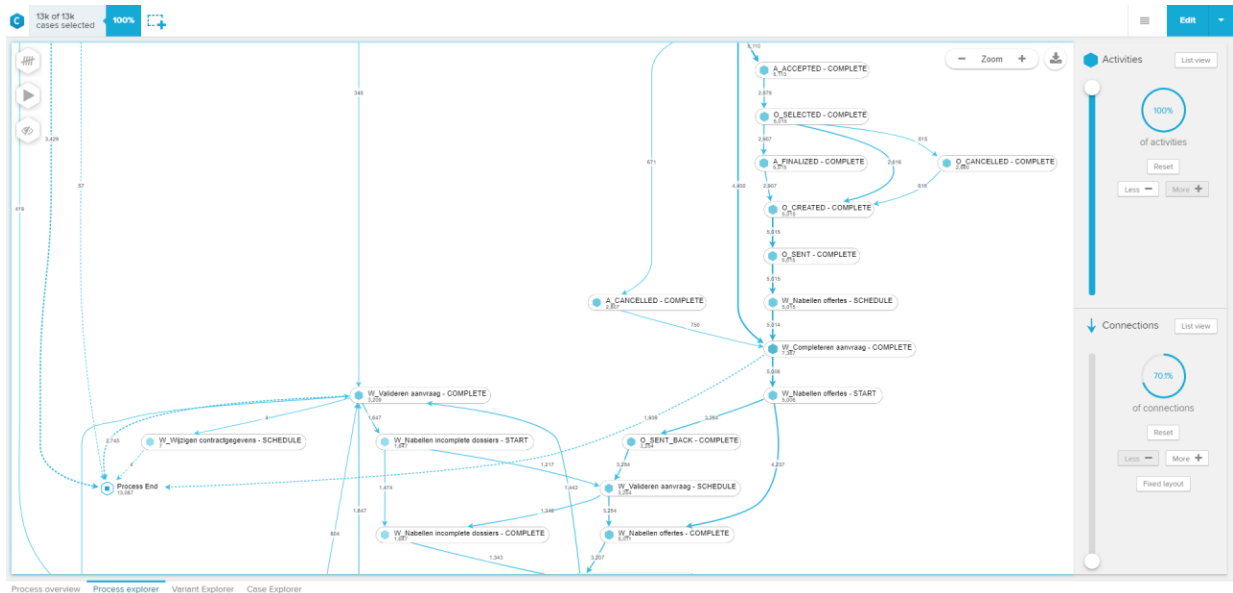
# IMPORT



The Next Pictures will be close ups of the “Process explorer”:

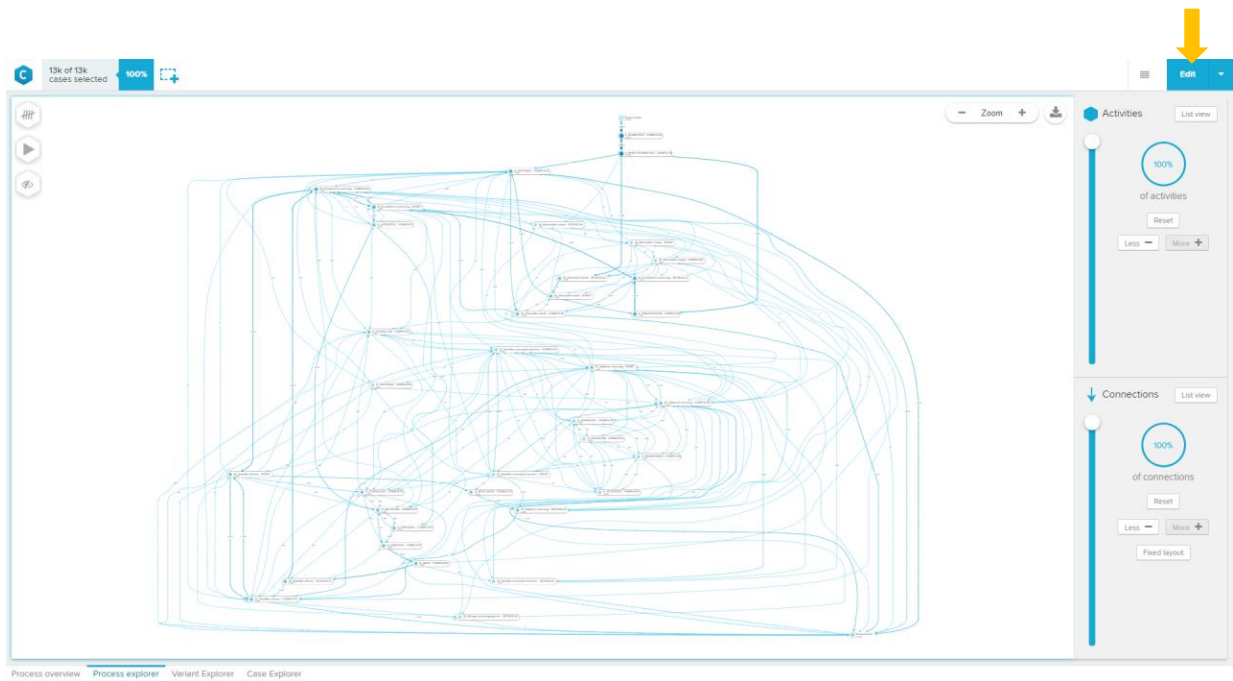


# IMPORT



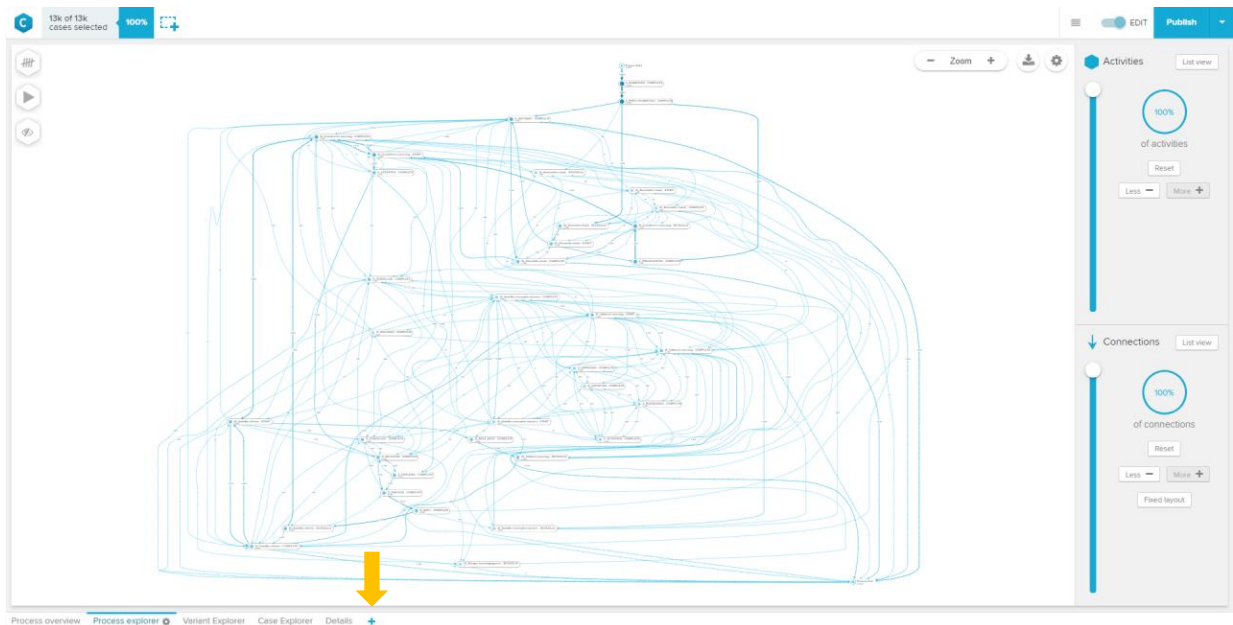
The “Process Explorer” shows ALL activities of the process. However, in the pictures above only 70.1 % of the connections are displayed. We did this, because if we showed you all connections, you would not be able to read the activities on the screenshot. When showing all connections, it looks like this:

# IMPORT



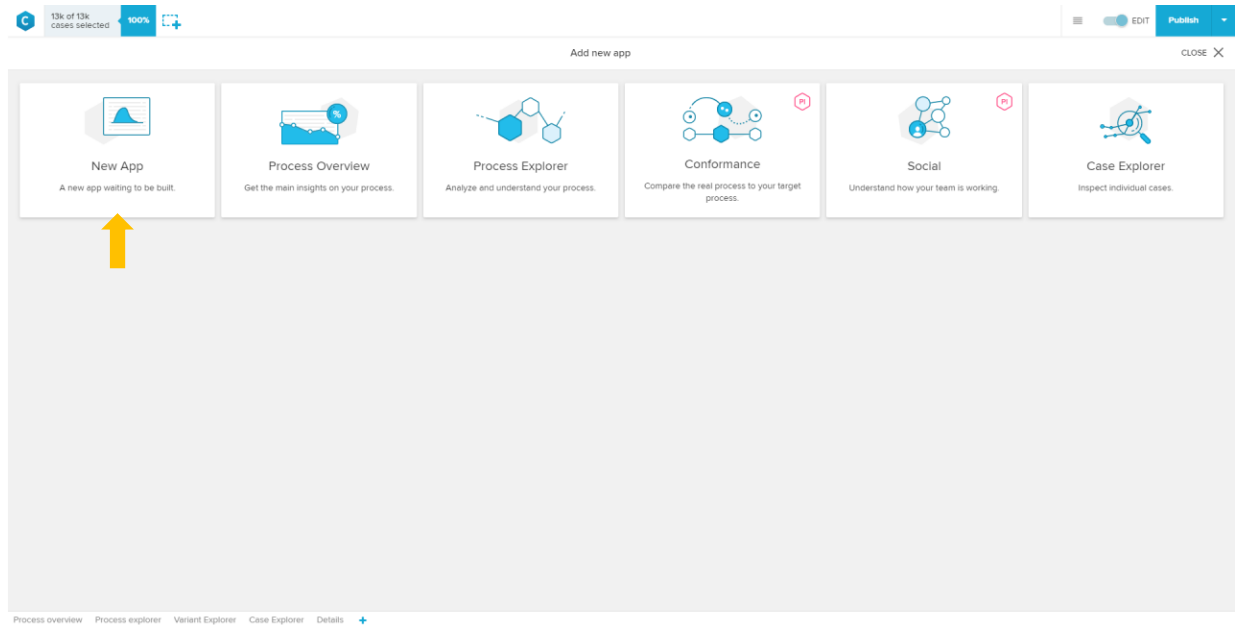
To get a nice overview over the imported log, you can create a sheet with the relevant details.

1. Click on the Edit button as shown in the previous screenshot

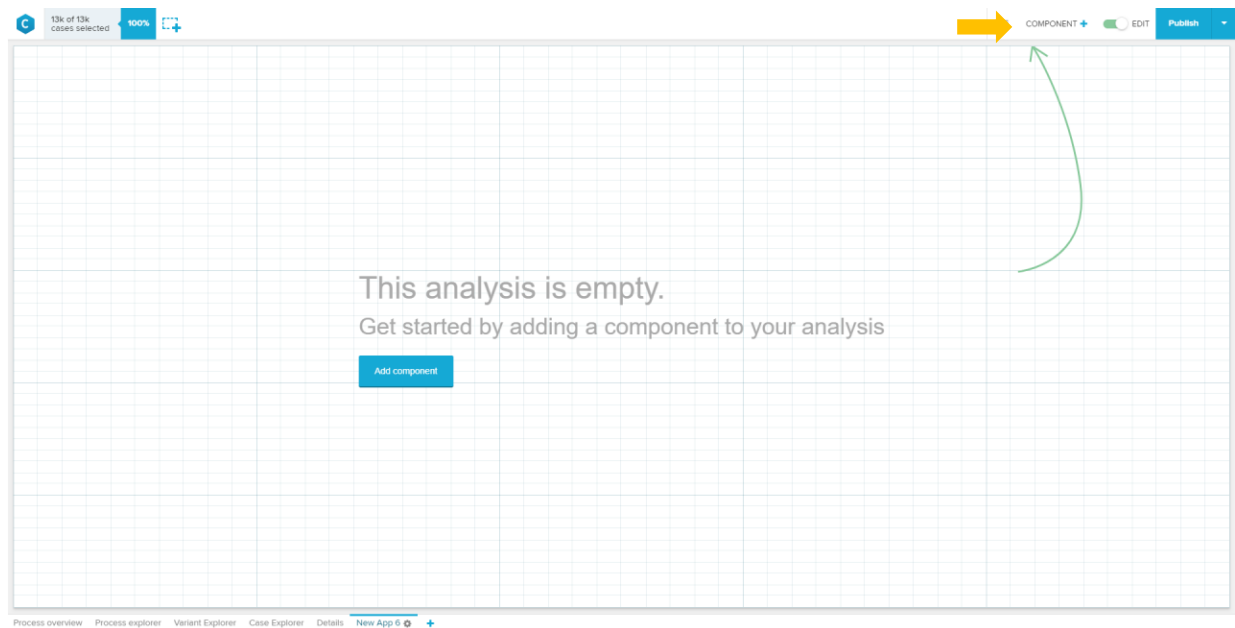


2. Click on the + button to add a new sheet

# IMPORT



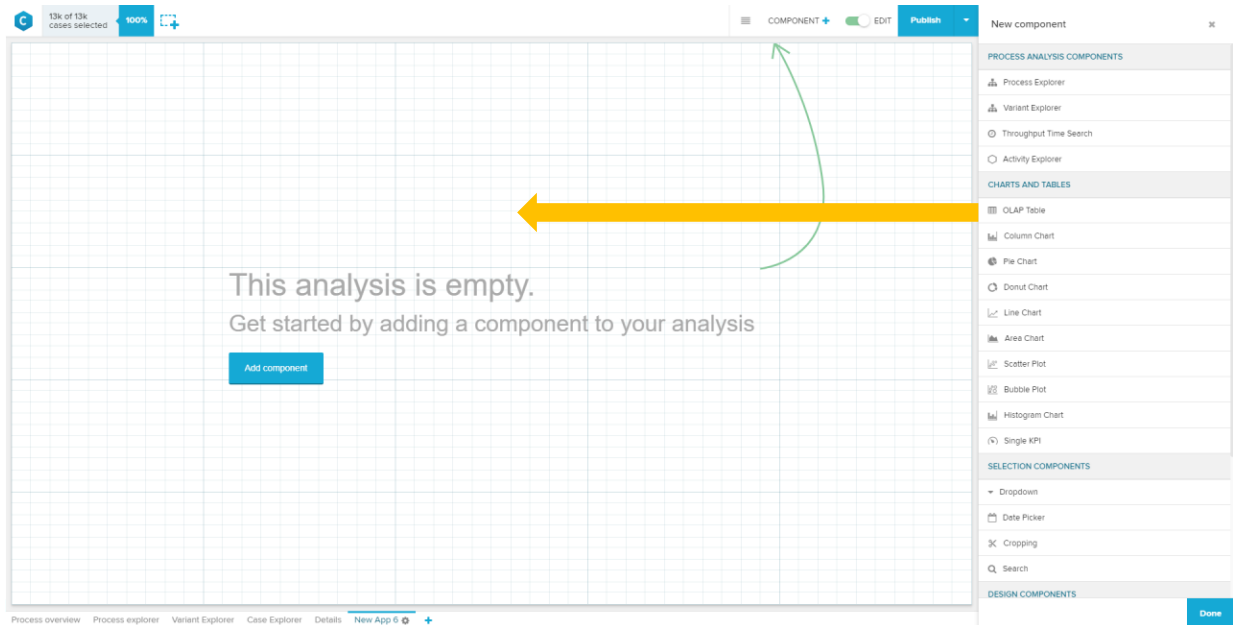
### 3. Select the field "New App"



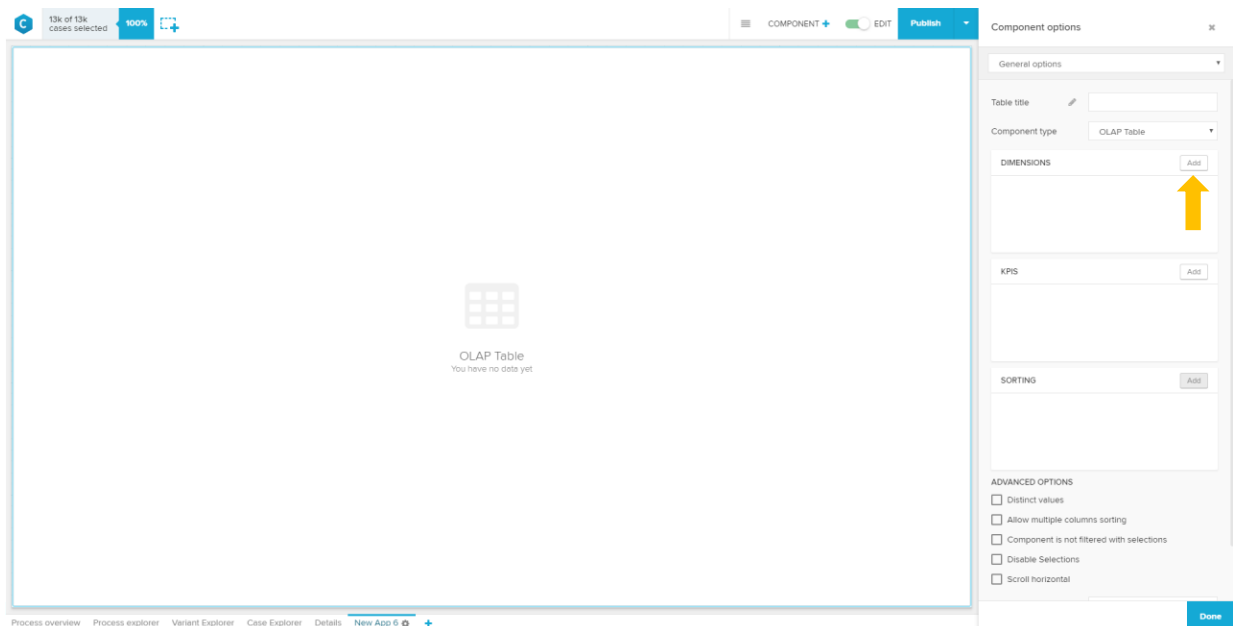
### 4. Click on "Component +"



# IMPORT

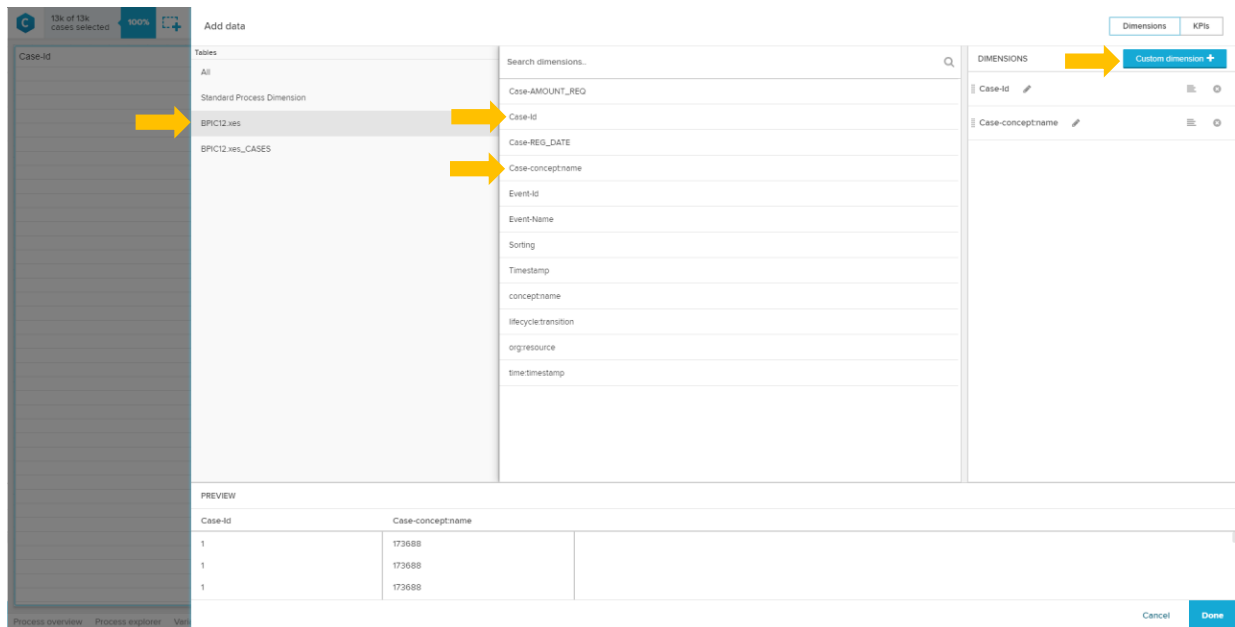


5. Add a OLAP Table through drag & drop and adapt its size

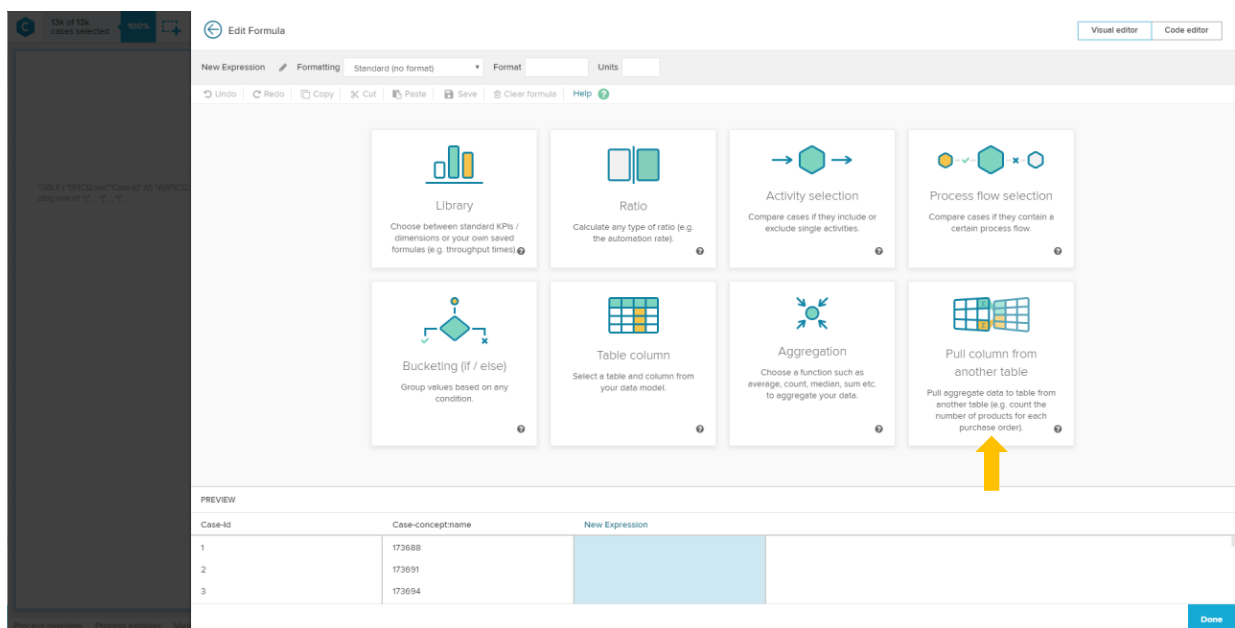


6. You can now start adding dimensions by clicking on the “add” Button

# IMPORT



7. You can directly select the Case-Id and the Case-concept:name from the BPIC12.xes table
8. Click on “Custom dimension” to define a dimension for the start and end-time of the cases. In this case we will use the visual editor.



9. Click on “Pull column from another table”

# IMPORT

The screenshot shows the 'Edit Formula' window with the 'Get' dropdown set to 'first value of'. The 'Tables' list includes 'BPIC12.xes' and 'BPIC12.xes\_CASES'. A search for 'Timestamp' is performed, and the 'Timestamp' option is selected. The 'PREVIEW' table below shows the resulting data.

Case-Id	Case-conceptname	Started	Duration	Activities count	
1	173688		Thu Oct 13 2011 08:37:37	13 days	26
2	173691		Mon Oct 10 2011 12:17:34	9 days	39
3	173694		Wed Feb 15 2012 11:29:26	137 days	59

The screenshot shows the 'Edit Formula' window with the 'Get' dropdown set to 'for each element in'. The 'Tables' list includes 'BPIC12.xes' and 'BPIC12.xes\_CASES'. A search for 'Timestamp' is performed, and the 'No Transformation' option is selected. The 'PREVIEW' table below shows the resulting data.

Case-Id	Case-conceptname	Started	Duration	Activities count	
1	173688		Thu Oct 13 2011 08:37:37	13 days	26
2	173691		Mon Oct 10 2011 12:17:34	9 days	39
3	173694		Wed Feb 15 2012 11:29:26	137 days	59

10. Select:
  - a. Get "first value of"
  - b. "Timestamp" from the Table "BPIC12.xes"
  - c. when asked for the transformation, select "no transformation"
  - d. for each element in "BPIC12.xes\_Cases"

# IMPORT

The screenshot shows the 'Edit Formula' window. The formula is configured as follows:

- Get: first value of
- Timestamp of BPIC12.xes
- for each element in: BPIC12.xes\_CASES

The preview table below shows the results:

Case-Id	Case-conceptname	Started
1	173688	Fri Sep 30 2011 22:38:44
1	173688	Fri Sep 30 2011 22:38:44
1	173688	Fri Sep 30 2011 22:38:44

This is the formula that you should see now.

11. Finally change the name to “Started”
12. Hit the “Done” button
13. Click again on the “Custom Dimension” button

The screenshot shows the 'Edit Formula' window. The formula is configured as follows:

- Get: last value of
- Timestamp of BPIC12.xes
- for each element in: BPIC12.xes\_CASES

The preview table below shows the results:

Case-Id	Case-conceptname	Started	Finished
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37

# IMPORT

14. Select:
  - a. Get “last value of”
  - b. The rest is equal to the previous formula
15. Rename the formula to “Finished” and hit “Done”

The screenshot shows the 'Add data' panel with a search for KPIs. The 'KPIs' tab is selected in the top right corner, indicated by a yellow arrow. The search results list various KPIs, including 'Total throughput time in days'. The 'PREVIEW' table below shows data for three cases.

Case-id	Case-conceptname	Started	Finished
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37

16. Click on “KPIs” in the top right corner

The screenshot shows the 'Add data' panel with a search for KPIs. The 'KPIs' tab is selected in the top right corner, indicated by a yellow arrow. The search results list various KPIs, including 'Total throughput time in days'. A yellow arrow points to this KPI in the search results. The 'PREVIEW' table below shows data for three cases, including a new column for 'Total throughput time in days'.

Case-id	Case-conceptname	Started	Finished	Total throughput time in days
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13.00
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9.00
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137.00

# IMPORT

17. Select “Total throughput time in days” and click on “f(x)” to edit the formula

Visual editor Code editor

Case-id Duration Formatting Rounded number (#,###) Format / Units days

Undo Redo Copy Cut Paste Save Clear formula Help

TIME DIFFERENCE

average of ( FROM Process Start TO Process End )

SHOW MORE

PREVIEW

Case-id	Case-conceptname	Started	Finished	Duration
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days

Done

18. Name the formula “Duration”, change the formatting to “Rounded number”, enter “days” as unit and hit “Done”

Dimensions KPIs

Case-id Case-conceptname Started Finished Duration Activities count

1 173688 Fri Sep 30 2011 22:38:44 Thu Oct 13 2011 08:37:37 13 days 26

2 173691 Sat Oct 1 2011 06:08:58 Mon Oct 10 2011 12:17:34 9 days 39

3 173694 Sat Oct 1 2011 06:10:30 Wed Feb 15 2012 11:29:26 137 days 59

Cancel Done

19. Select “Activities count” as a KPI and click on “Done”

# IMPORT

13k of 13k cases selected 100%

COMPONENT EDIT Publish

New component

PROCESS ANALYSIS COMPONENTS

- Process Explorer
- Variant Explorer
- Throughput Time Search
- Activity Explorer

CHARTS AND TABLES

- OLAP Table
- Column Chart
- Pie Chart
- Donut Chart
- Line Chart
- Area Chart
- Scatter Plot
- Bubble Plot
- Histogram Chart
- (f) Single KPI

SELECTION COMPONENTS

- Dropdown
- Date Picker
- Cropping
- Search

DESIGN COMPONENTS

Done

Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	39
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days	59
4	173697	Sat Oct 1 2011 06:11:08	Sat Oct 1 2011 06:11:46	0 days	3
5	173700	Sat Oct 1 2011 06:15:39	Sat Oct 1 2011 06:16:21	0 days	3
6	173703	Sat Oct 1 2011 07:48:25	Sat Oct 1 2011 11:02:12	0 days	9
7	173706	Sat Oct 1 2011 07:45:37	Sat Oct 1 2011 13:00:02	0 days	14
8	173709	Sat Oct 1 2011 07:57:42	Tue Nov 1 2011 08:15:08	31 days	12
9	173712	Sat Oct 1 2011 07:58:30	Mon Oct 3 2011 12:42:55	2 days	14
10	173715	Sat Oct 1 2011 07:59:10	Thu Oct 13 2011 09:05:28	12 days	24
11	173718	Sat Oct 1 2011 08:37:39	Thu Oct 27 2011 07:18:01	26 days	77
12	173721	Sat Oct 1 2011 09:07:34	Mon Oct 10 2011 14:28:29	9 days	35
13	173724	Sat Oct 1 2011 09:52:14	Mon Oct 3 2011 13:48:20	2 days	20
14	173727	Sat Oct 1 2011 10:08:46	Sat Oct 1 2011 10:09:30	0 days	3
15	173730	Sat Oct 1 2011 10:36:06	Fri Oct 21 2011 07:08:21	20 days	76
16	173733	Sat Oct 1 2011 10:39:34	Sat Oct 1 2011 12:54:56	0 days	6
17	173736	Sat Oct 1 2011 11:01:58	Tue Oct 18 2011 10:01:37	17 days	55
18	173739	Sat Oct 1 2011 11:12:58	Fri Oct 14 2011 14:22:55	13 days	48
19	173742	Sat Oct 1 2011 11:44:12	Fri Oct 14 2011 13:52:09	13 days	40
20	173745	Sat Oct 1 2011 12:08:16	Sat Oct 8 2011 10:45:59	7 days	19
21	173748	Sat Oct 1 2011 12:09:16	Mon Oct 3 2011 14:44:24	2 days	38
22	173751	Sat Oct 1 2011 12:14:39	Tue Oct 11 2011 08:39:37	10 days	24
23	173754	Sat Oct 1 2011 12:50:09	Fri Oct 14 2011 12:38:41	13 days	42
24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	3
25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	6
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	3
29	173772	Sat Oct 1 2011 14:39:56	Sat Oct 1 2011 14:40:51	0 days	3

Process overview Process explorer Variant Explorer Case Explorer Details New App 6

20. Make room for the “Single KPI” fields and add a “Single KPI” through drag and drop

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

General options

Title Number of Cases

Type Number

KPI

Units

Subtitle

Prefdefined formats Formatting formula

Standard (no format)

COLORING THRESHOLDS

Thresholds Single color

0 500 1000 15k

Automatic Manual

Component is not filtered with selections

Done

Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	39
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days	59
4	173697	Sat Oct 1 2011 06:11:08	Sat Oct 1 2011 06:11:46	0 days	3
5	173700	Sat Oct 1 2011 06:15:39	Sat Oct 1 2011 06:16:21	0 days	3
6	173703	Sat Oct 1 2011 07:48:25	Sat Oct 1 2011 11:02:12	0 days	9
7	173706	Sat Oct 1 2011 07:45:37	Sat Oct 1 2011 13:00:02	0 days	14
8	173709	Sat Oct 1 2011 07:57:42	Tue Nov 1 2011 08:15:08	31 days	12
9	173712	Sat Oct 1 2011 07:58:30	Mon Oct 3 2011 12:42:55	2 days	14
10	173715	Sat Oct 1 2011 07:59:10	Thu Oct 13 2011 09:05:28	12 days	24
11	173718	Sat Oct 1 2011 08:37:39	Thu Oct 27 2011 07:18:01	26 days	77
12	173721	Sat Oct 1 2011 09:07:34	Mon Oct 10 2011 14:28:29	9 days	35
13	173724	Sat Oct 1 2011 09:52:14	Mon Oct 3 2011 13:48:20	2 days	20
14	173727	Sat Oct 1 2011 10:08:46	Sat Oct 1 2011 10:09:30	0 days	3
15	173730	Sat Oct 1 2011 10:36:06	Fri Oct 21 2011 07:08:21	20 days	76
16	173733	Sat Oct 1 2011 10:39:34	Sat Oct 1 2011 12:54:56	0 days	6
17	173736	Sat Oct 1 2011 11:01:58	Tue Oct 18 2011 10:01:37	17 days	55
18	173739	Sat Oct 1 2011 11:12:58	Fri Oct 14 2011 14:22:55	13 days	48
19	173742	Sat Oct 1 2011 11:44:12	Fri Oct 14 2011 13:52:09	13 days	40
20	173745	Sat Oct 1 2011 12:08:16	Sat Oct 8 2011 10:45:59	7 days	19
21	173748	Sat Oct 1 2011 12:09:16	Mon Oct 3 2011 14:44:24	2 days	38
22	173751	Sat Oct 1 2011 12:14:39	Tue Oct 11 2011 08:39:37	10 days	24
23	173754	Sat Oct 1 2011 12:50:09	Fri Oct 14 2011 12:38:41	13 days	42
24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	3
25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	6
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	3
29	173772	Sat Oct 1 2011 14:39:56	Sat Oct 1 2011 14:40:51	0 days	3

Process overview Process explorer Variant Explorer Case Explorer Details New App 6

21. Assign a title to the “Single KPI” field and click on “f(x)” to add a formula



# IMPORT

13k of 13k cases selected 100%

Edit Formula

Visual editor Code editor

Formatting Rounded number (###) Format / Units

Search KPIs... Count Table

EDITOR

COUNT\_TABLE(\*BPM12\_CASES\*)

PREVIEW

13,087

Done

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

General options

Title Number of Distinct Activities

Type Number

KPI

Units

Subtitle

Predefined formats Formatting formula

Standard (no format) Documentation

COLORING THRESHOLDS

Threshholds Single color

0 500 1000 15k Add threshold

TEXT SIZE

Automatic Manual

Component is not filtered with selections

Done

Case-id	Case-conceptname	Started	Finished	Duration	Activities count
1	173686	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 06:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	39
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days	59
4	173697	Sat Oct 1 2011 06:11:08	Sat Oct 1 2011 06:11:46	0 days	3
5	173700	Sat Oct 1 2011 06:15:39	Sat Oct 1 2011 06:16:21	0 days	3
6	173703	Sat Oct 1 2011 07:45:25	Sat Oct 1 2011 11:02:12	0 days	9
7	173706	Sat Oct 1 2011 07:45:37	Sat Oct 1 2011 13:00:02	0 days	14
8	173709	Sat Oct 1 2011 07:57:42	Tue Nov 1 2011 08:15:08	31 days	12
9	173712	Sat Oct 1 2011 07:58:30	Mon Oct 3 2011 12:42:55	2 days	14
10	173715	Sat Oct 1 2011 07:59:10	Thu Oct 13 2011 09:05:28	12 days	24
11	173718	Sat Oct 1 2011 08:37:59	Thu Oct 27 2011 07:18:01	26 days	77
12	173721	Sat Oct 1 2011 09:07:34	Mon Oct 10 2011 14:28:29	9 days	35
13	173724	Sat Oct 1 2011 09:52:14	Mon Oct 3 2011 13:48:20	2 days	20
14	173727	Sat Oct 1 2011 10:08:46	Sat Oct 1 2011 10:09:30	0 days	3
15	173730	Sat Oct 1 2011 10:36:08	Fri Oct 21 2011 07:08:21	20 days	76
16	173733	Sat Oct 1 2011 10:39:34	Sat Oct 1 2011 12:54:56	0 days	6
17	173736	Sat Oct 1 2011 11:01:58	Tue Oct 18 2011 10:01:37	17 days	55
18	173739	Sat Oct 1 2011 11:12:58	Fri Oct 14 2011 14:22:55	13 days	48
19	173742	Sat Oct 1 2011 11:44:12	Fri Oct 14 2011 13:52:09	13 days	40
20	173745	Sat Oct 1 2011 12:00:16	Sat Oct 9 2011 10:46:59	7 days	19
21	173748	Sat Oct 1 2011 12:09:16	Mon Oct 3 2011 14:44:24	2 days	38
22	173751	Sat Oct 1 2011 12:14:39	Tue Oct 11 2011 08:39:37	10 days	24
23	173754	Sat Oct 1 2011 12:50:09	Fri Oct 14 2011 12:28:41	13 days	42
24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	3
25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	6
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	3
29	173772	Sat Oct 1 2011 14:39:56	Sat Oct 1 2011 14:40:33	0 days	3

22. Add another "Single KPI" through drag and drop, name it and click on f(x) to add a formula

# IMPORT

The screenshot shows the 'Edit Formula' window. On the left, a table lists various KPIs under 'Standard Process KPI' and 'BP1C12.xes'. 'Activities count' is highlighted with a yellow arrow. The 'EDITOR' pane on the right shows the formula: `COUNT(BP1C12.xes"."Event_Name")`. The 'PREVIEW' area is empty. A 'Refresh (Ctrl+Enter)' button is visible at the bottom right of the editor area. A 'Done' button is at the bottom right of the entire window.

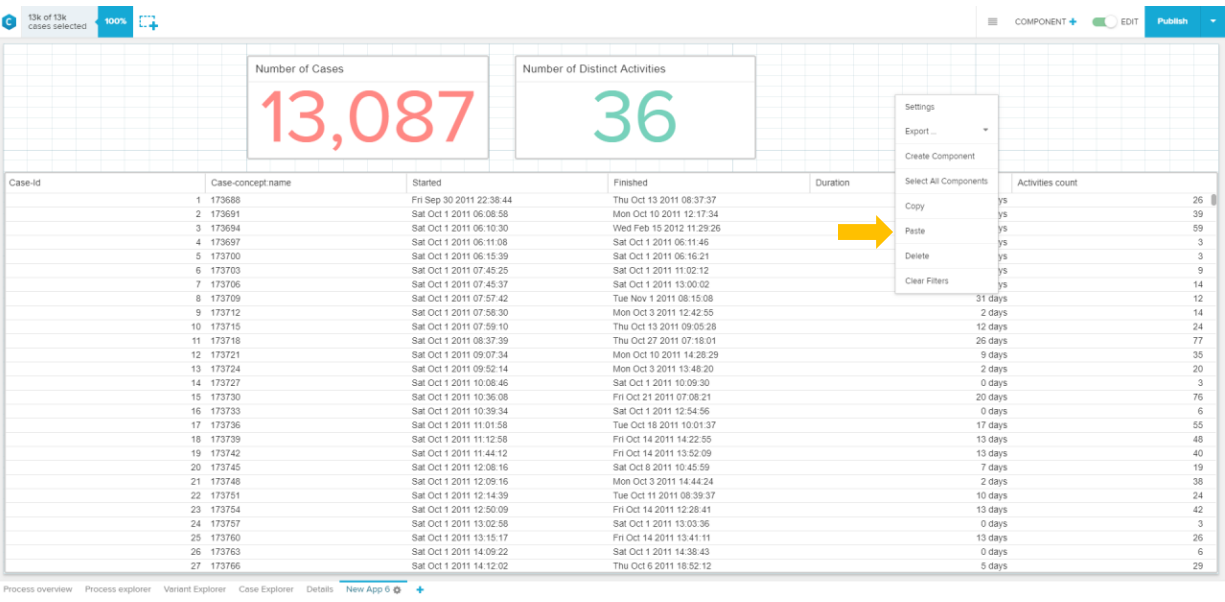
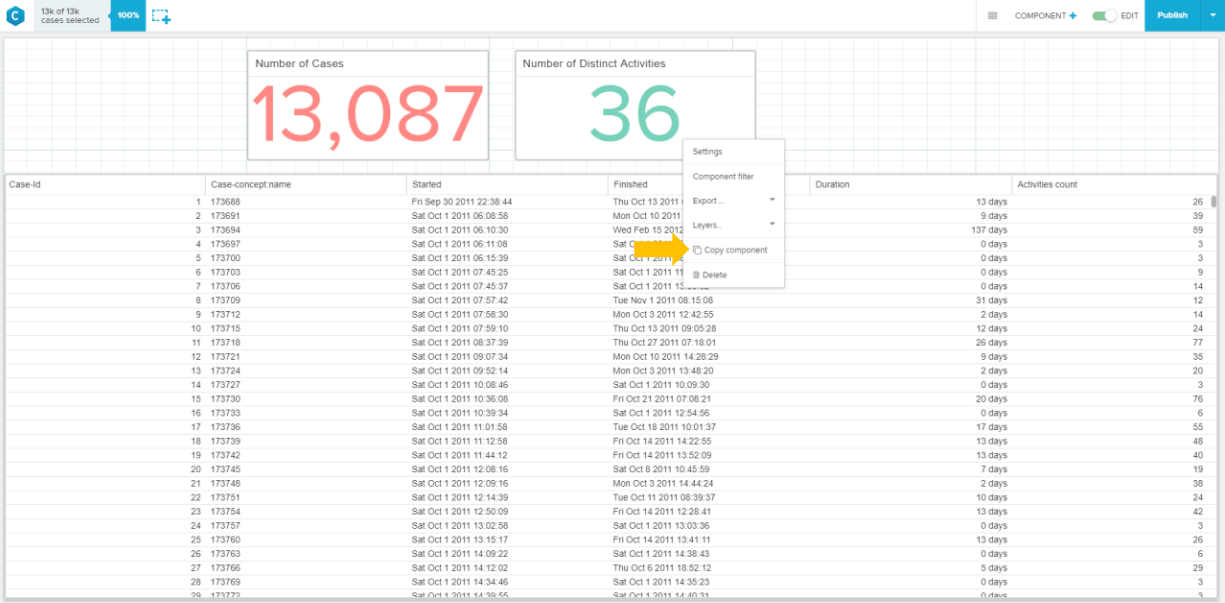
23. Select "Activities Count" – do NOT hit "Done" yet!

The screenshot shows the 'Edit Formula' window with the formula updated to: `COUNT(DISTINCT BP1C12.xes"."Event_Name")`. A yellow arrow points to the word 'DISTINCT' in the formula. The 'PREVIEW' area remains empty. The 'Refresh (Ctrl+Enter)' button is still present. A yellow arrow points down to the 'Done' button at the bottom right of the window.

24. To count only the distinct cases, write "DISTINCT" into the marked part of the formula and hit "Done"

# IMPORT

25. To display the total number of activities, we will simply copy the created KPI and adapt it. (right click to copy and paste)



# IMPORT

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

General options

Title: Number of Activities

Type: Number

KPI:  $\text{COUNT}(\text{BPFC12.Acts} * \text{Event.Base})$

Units:

Subtitle:

Prefdefined formats: Rounding number (#, .) Formatting formula: .f

COLORING THRESHOLDS

Thresholds  Single color

0 500 1000 15k

TEXT SIZE

Automatic  Manual

Component is not filtered with selections

Done

Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	39
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days	59
4	173697	Sat Oct 1 2011 06:11:08	Sat Oct 1 2011 06:11:46	0 days	3
5	173700	Sat Oct 1 2011 06:15:39	Sat Oct 1 2011 06:16:21	0 days	3
6	173703	Sat Oct 1 2011 07:45:25	Sat Oct 1 2011 11:02:12	0 days	9
7	173706	Sat Oct 1 2011 07:45:37	Sat Oct 1 2011 13:00:02	0 days	14
8	173709	Sat Oct 1 2011 07:57:42	Tue Nov 1 2011 06:15:08	31 days	12
9	173712	Sat Oct 1 2011 07:58:30	Mon Oct 3 2011 12:42:55	2 days	14
10	173715	Sat Oct 1 2011 07:59:10	Thu Oct 13 2011 09:05:28	12 days	24
11	173718	Sat Oct 1 2011 08:37:39	Thu Oct 27 2011 07:18:01	26 days	24
12	173721	Sat Oct 1 2011 09:07:34	Mon Oct 10 2011 14:28:29	9 days	35
13	173724	Sat Oct 1 2011 09:52:14	Mon Oct 3 2011 13:48:20	2 days	20
14	173727	Sat Oct 1 2011 10:08:46	Sat Oct 1 2011 10:09:30	0 days	3
15	173730	Sat Oct 1 2011 10:36:06	Fri Oct 21 2011 07:08:21	20 days	76
16	173733	Sat Oct 1 2011 10:39:34	Sat Oct 1 2011 12:54:56	0 days	6
17	173736	Sat Oct 1 2011 11:01:58	Tue Oct 18 2011 10:01:37	17 days	55
18	173739	Sat Oct 1 2011 11:12:58	Fri Oct 14 2011 14:22:55	13 days	48
19	173742	Sat Oct 1 2011 11:44:12	Fri Oct 14 2011 13:52:09	13 days	40
20	173745	Sat Oct 1 2011 12:08:16	Sat Oct 8 2011 10:45:59	7 days	19
21	173748	Sat Oct 1 2011 12:09:16	Mon Oct 3 2011 14:44:24	2 days	38
22	173751	Sat Oct 1 2011 12:14:39	Tue Oct 11 2011 08:39:37	10 days	24
23	173754	Sat Oct 1 2011 12:50:09	Fri Oct 14 2011 12:38:41	13 days	42
24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	3
25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	6
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	3
29	173772	Sat Oct 1 2011 14:39:56	Sat Oct 1 2011 14:40:33	0 days	3

Process overview Process explorer Variant Explorer Case Explorer Details New App 0 +

26. Delete the “Distinct” in the title and delete the “DISTINCT” in the formula too.

27. The next steps will show how to do the formatting:

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

General options

Title: Number of Cases

Type: Number

KPI:  $\text{COUNT}(\text{TABLE}(\text{BPFC12.CASES}))$

Units:

Subtitle:

Prefdefined formats: Rounding number (#, .) Formatting formula: .f

COLORING THRESHOLDS

Thresholds  Single color

0 500 1000 15k

TEXT SIZE

Automatic  Manual

Component is not filtered with selections

Done

Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	39
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12	173721	Sat Oct 1 2011 09:07:34	Mon Oct 10 2011 14:28:29	9 days	35
13	173724	Sat Oct 1 2011 09:52:14	Mon Oct 3 2011 13:48:20	2 days	20
14	173727	Sat Oct 1 2011 10:08:46	Sat Oct 1 2011 10:09:30	0 days	3
15	173730	Sat Oct 1 2011 10:36:06	Fri Oct 21 2011 07:08:21	20 days	76
16	173733	Sat Oct 1 2011 10:39:34	Sat Oct 1 2011 12:54:56	0 days	6
17	173736	Sat Oct 1 2011 11:01:58	Tue Oct 18 2011 10:01:37	17 days	55
18	173739	Sat Oct 1 2011 11:12:58	Fri Oct 14 2011 14:22:55	13 days	48
19	173742	Sat Oct 1 2011 11:44:12	Fri Oct 14 2011 13:52:09	13 days	40
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24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	3
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27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	3
29	173772	Sat Oct 1 2011 14:39:56	Sat Oct 1 2011 14:40:33	0 days	3

Process overview Process explorer Variant Explorer Case Explorer Details New App 0 +

# IMPORT

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

Diagram area

TITLE  
Number of Cases

TITLE FORMATTING  
Font  
Default font size 17px

Chart default colors

Switch Matrix

Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	26
3	173694	Sat Oct 1 2011 06:10:30	Wed Feb 15 2012 11:29:26	137 days	26
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20	173745	Sat Oct 1 2011 12:08:16	Sat Oct 1 2011 10:45:59	7 days	26
21	173748	Sat Oct 1 2011 12:09:16	Mon Oct 3 2011 14:44:24	2 days	26
22	173751	Sat Oct 1 2011 12:14:39	Tue Oct 11 2011 08:39:37	10 days	26
23	173754	Sat Oct 1 2011 12:50:09	Fri Oct 14 2011 12:28:41	13 days	26
24	173757	Sat Oct 1 2011 13:02:58	Sat Oct 1 2011 13:03:36	0 days	26
25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	26
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	29
29	173772	Sat Oct 1 2011 14:39:55	Sat Oct 1 2011 14:40:31	0 days	29

Process overview Process explorer Variant Explorer Case Explorer Details New App 6

13k of 13k cases selected 100%

COMPONENT EDIT Publish

Component options

Diagram area

TITLE  
Number of Cases

TITLE FORMATTING  
Font  
Default font size x-large 17px

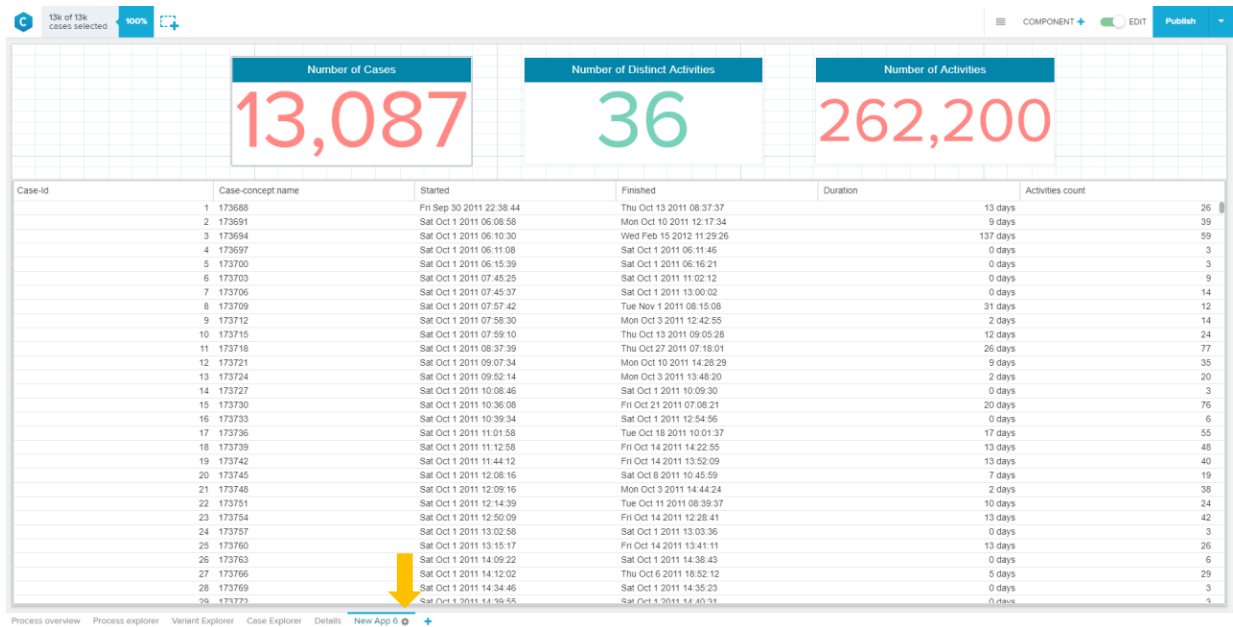
Chart default colors

Switch Matrix

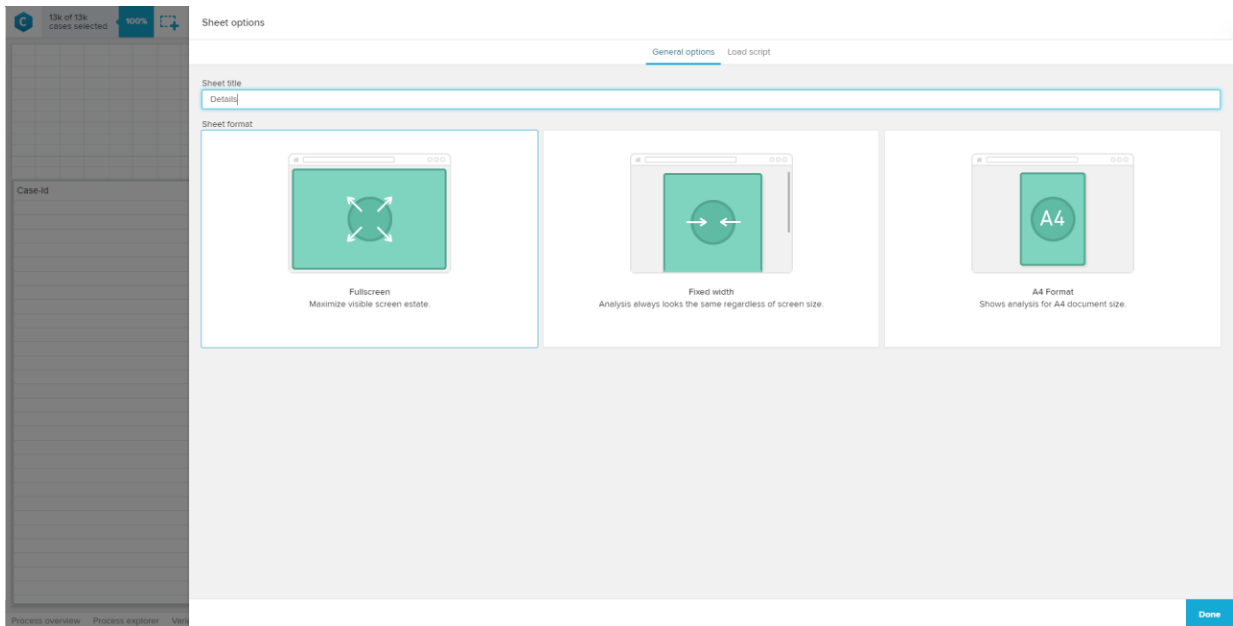
Case-id	Case-concept name	Started	Finished	Duration	Activities count
1	173688	Fri Sep 30 2011 22:38:44	Thu Oct 13 2011 08:37:37	13 days	26
2	173691	Sat Oct 1 2011 06:08:58	Mon Oct 10 2011 12:17:34	9 days	26
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25	173760	Sat Oct 1 2011 13:15:17	Fri Oct 14 2011 13:41:11	13 days	26
26	173763	Sat Oct 1 2011 14:09:22	Sat Oct 1 2011 14:38:43	0 days	26
27	173766	Sat Oct 1 2011 14:12:02	Thu Oct 6 2011 18:52:12	5 days	29
28	173769	Sat Oct 1 2011 14:34:46	Sat Oct 1 2011 14:35:23	0 days	29
29	173772	Sat Oct 1 2011 14:39:55	Sat Oct 1 2011 14:40:31	0 days	29

Process overview Process explorer Variant Explorer Case Explorer Details New App 6

# IMPORT

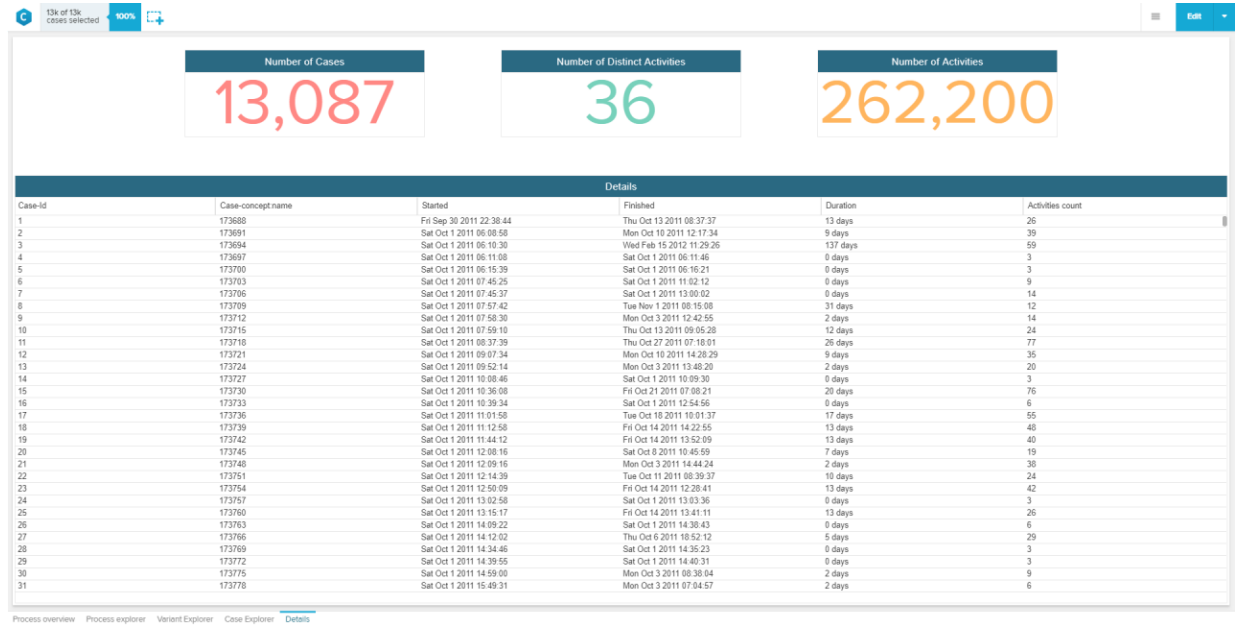


28. Click on the cogwheel to change the title of the sheet



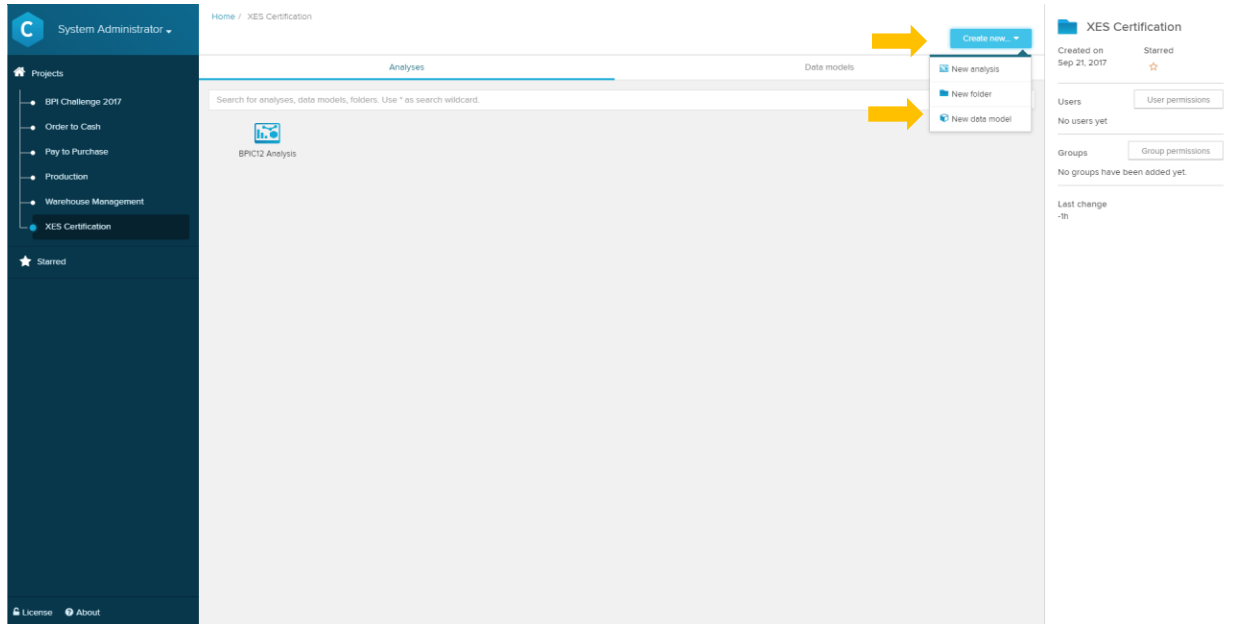
After all the formatting is done, the sheet should look like this:

# IMPORT



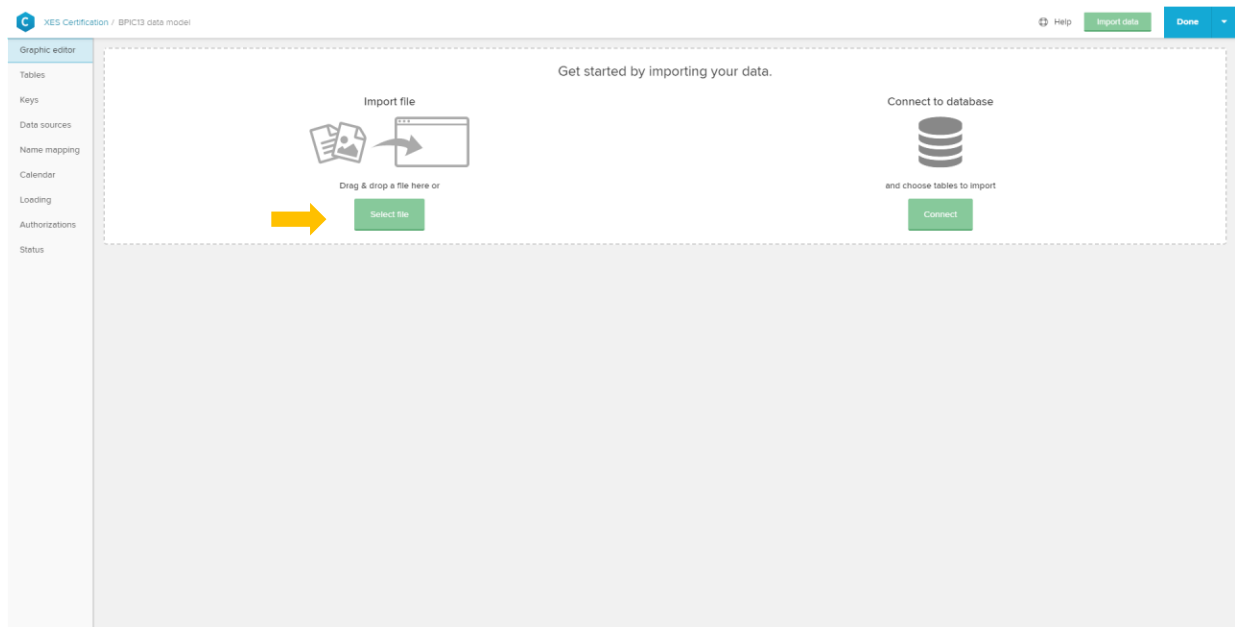
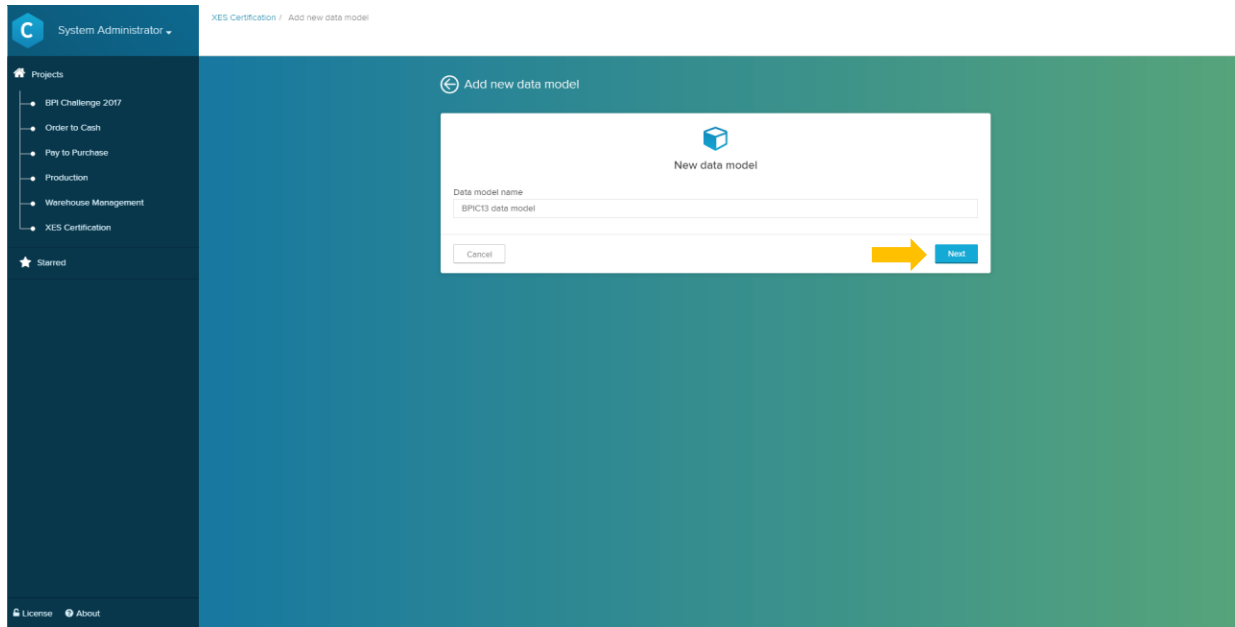
This overview and the process graph show, that the log was imported successfully.

## BPIC13\_closed\_problems

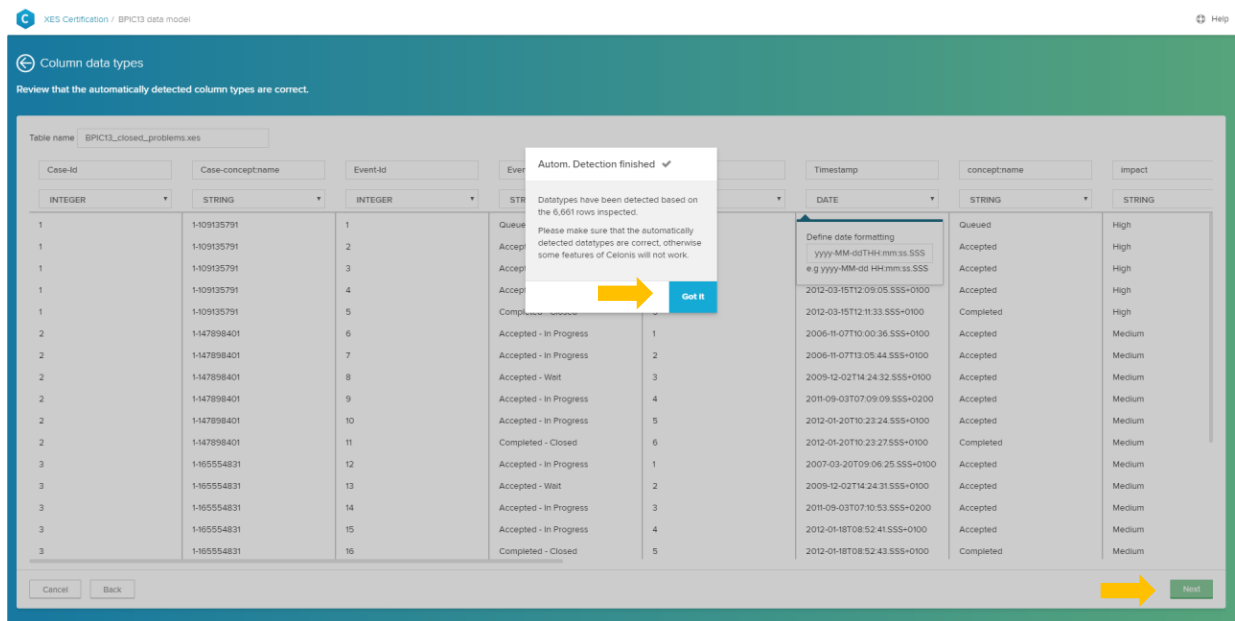
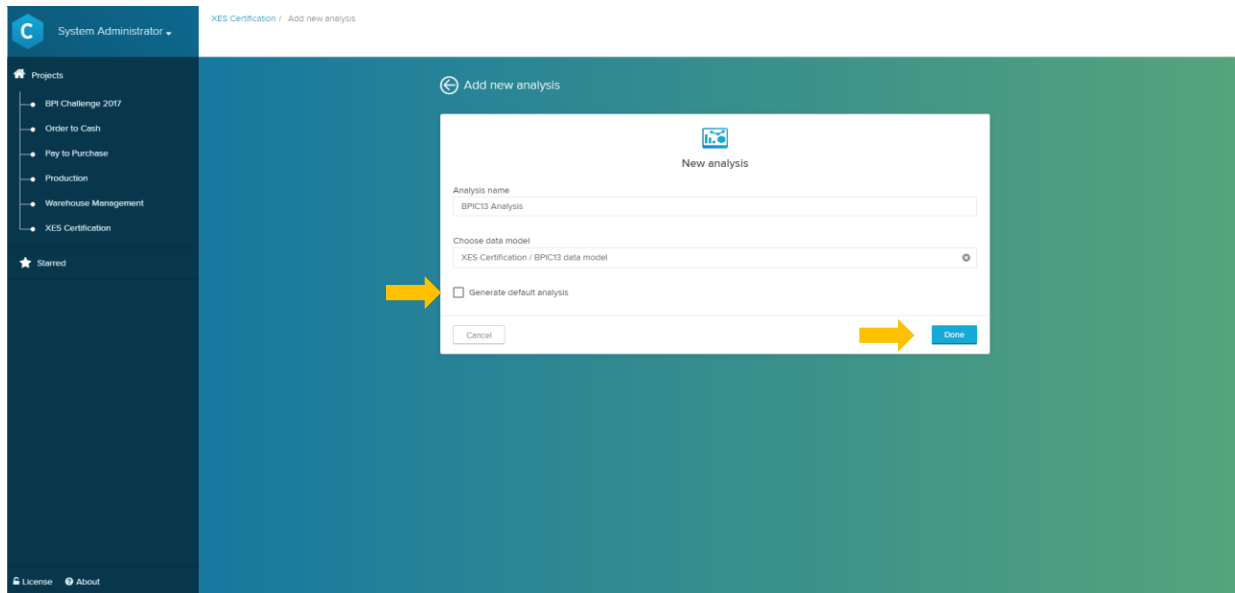




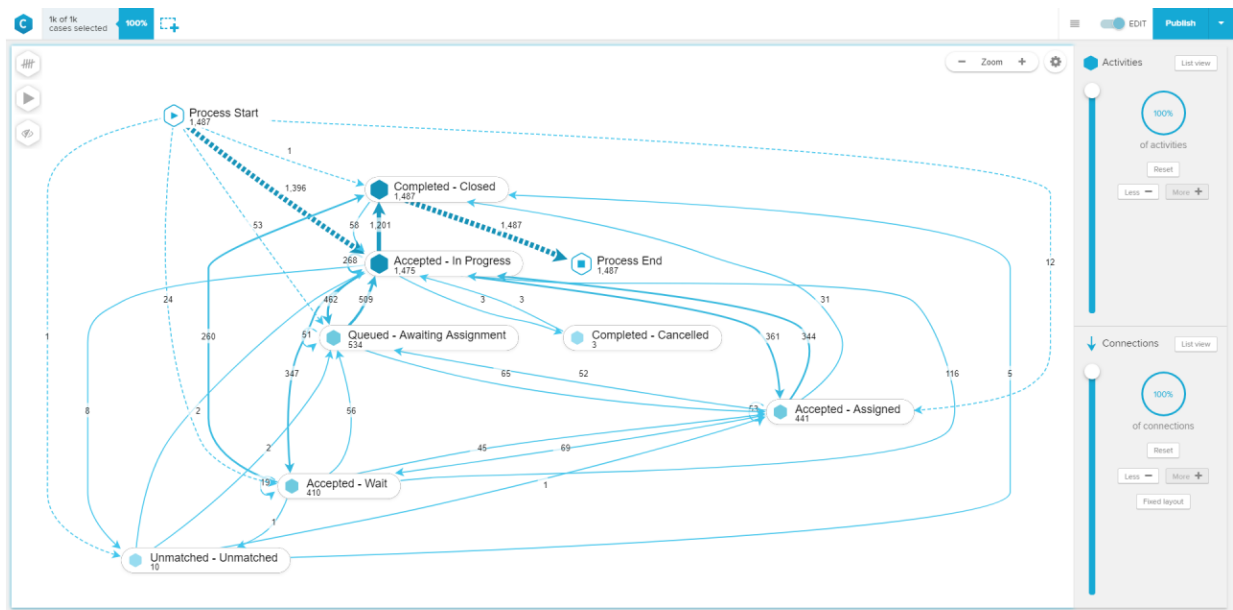
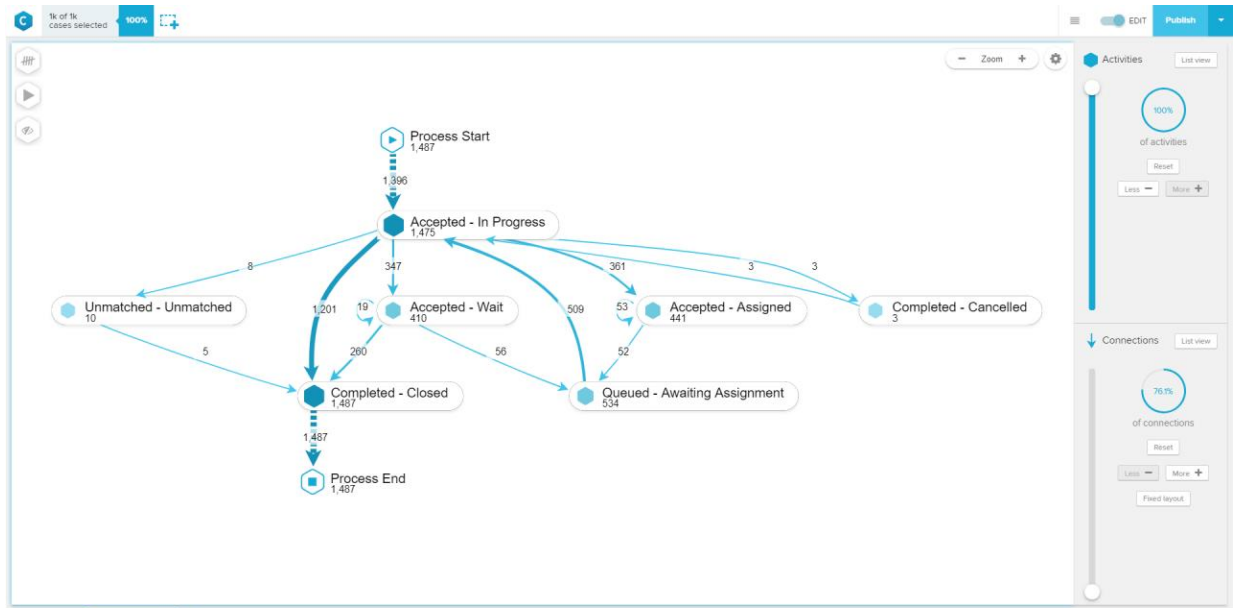
# IMPORT



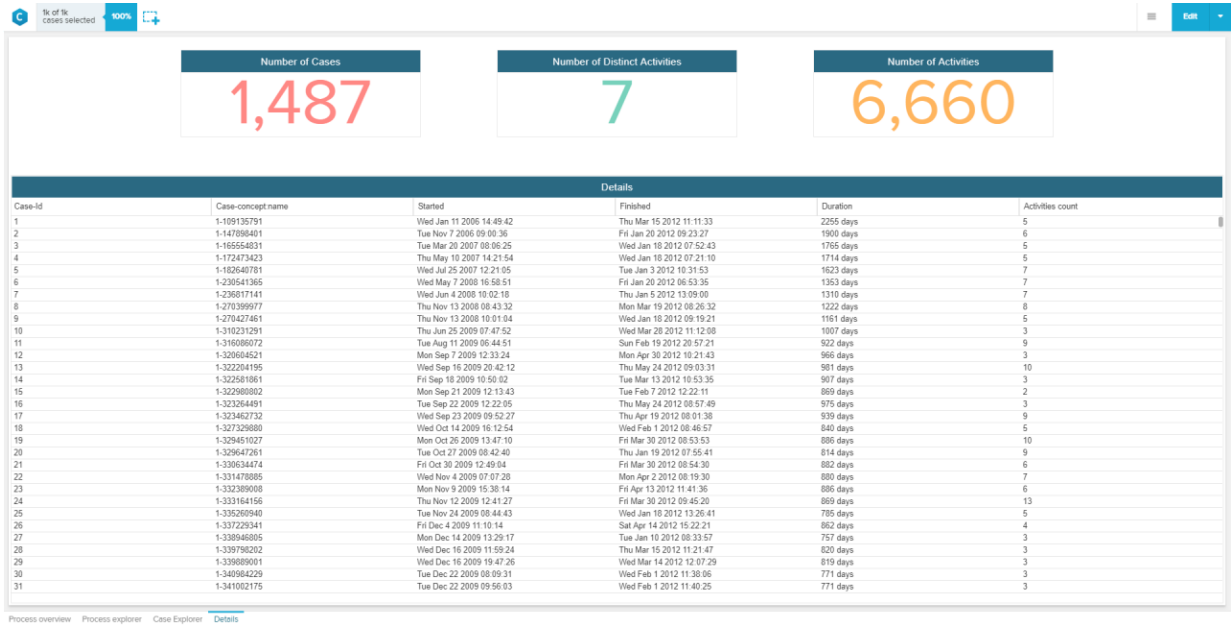
# IMPORT



# IMPORT

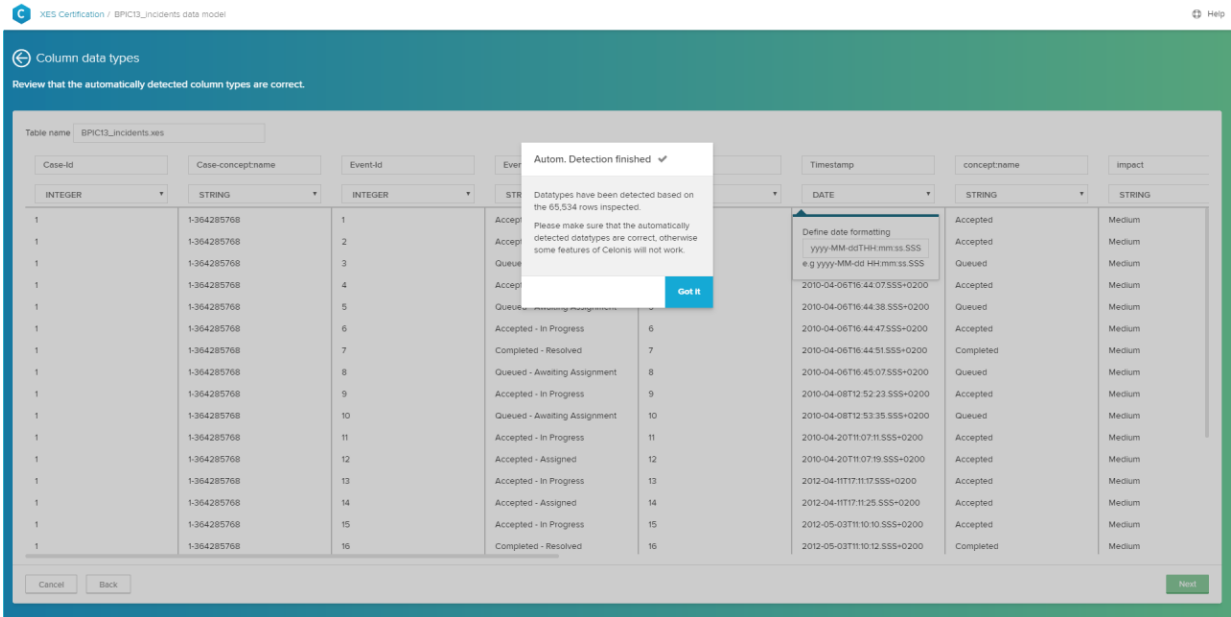


# IMPORT

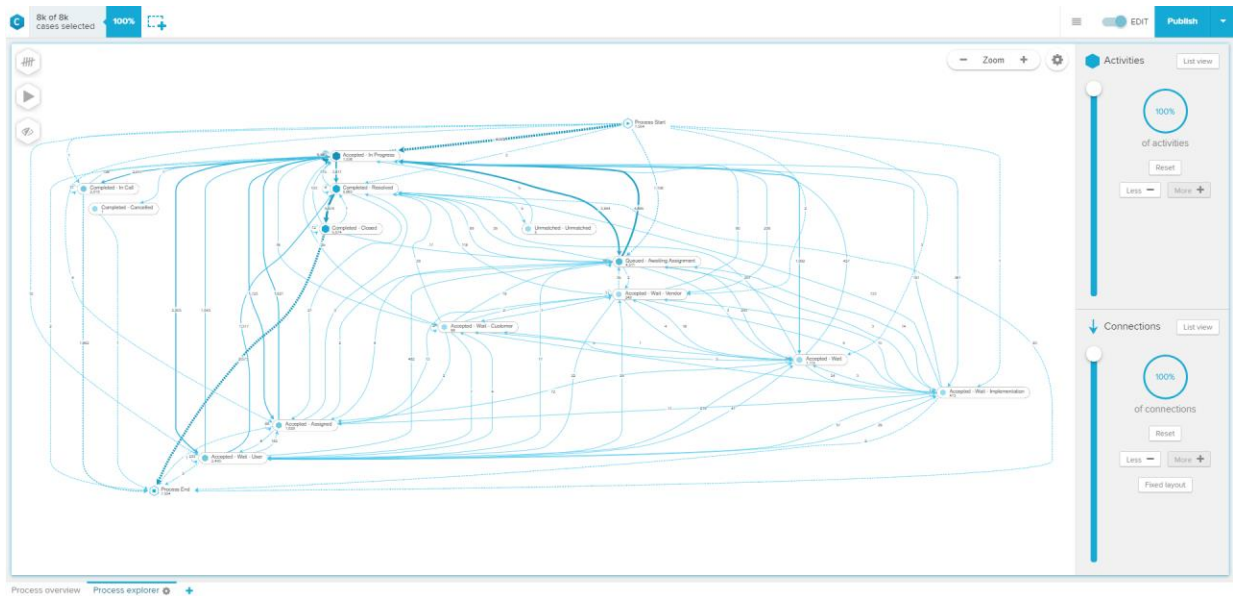
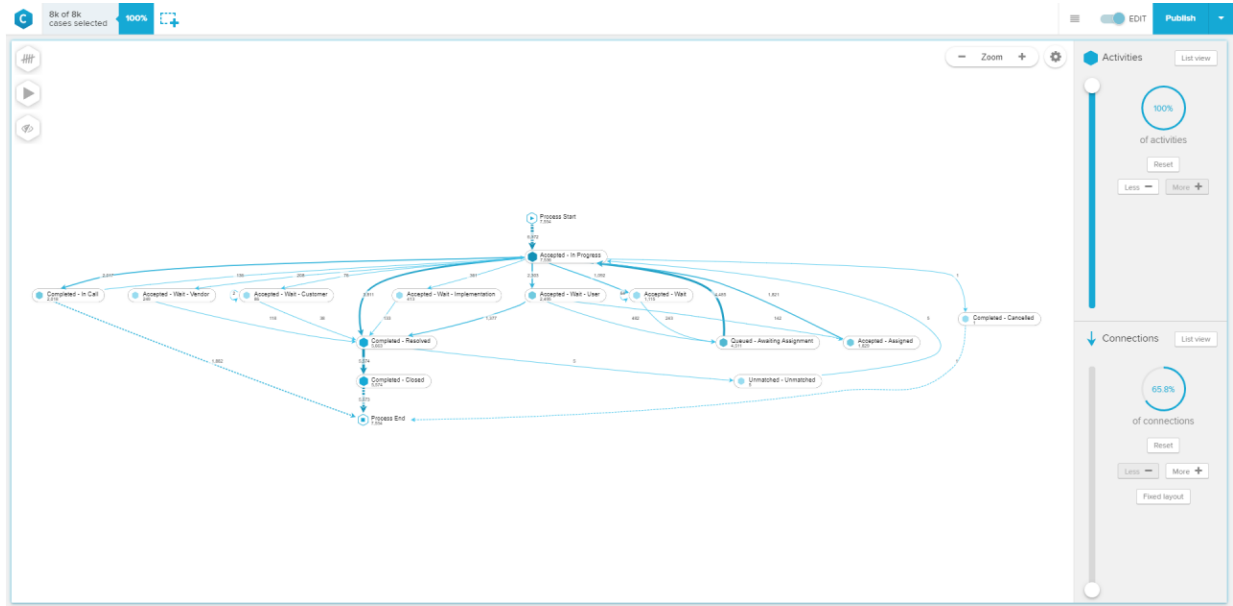


This overview and the process graph show, that the log was imported successfully.

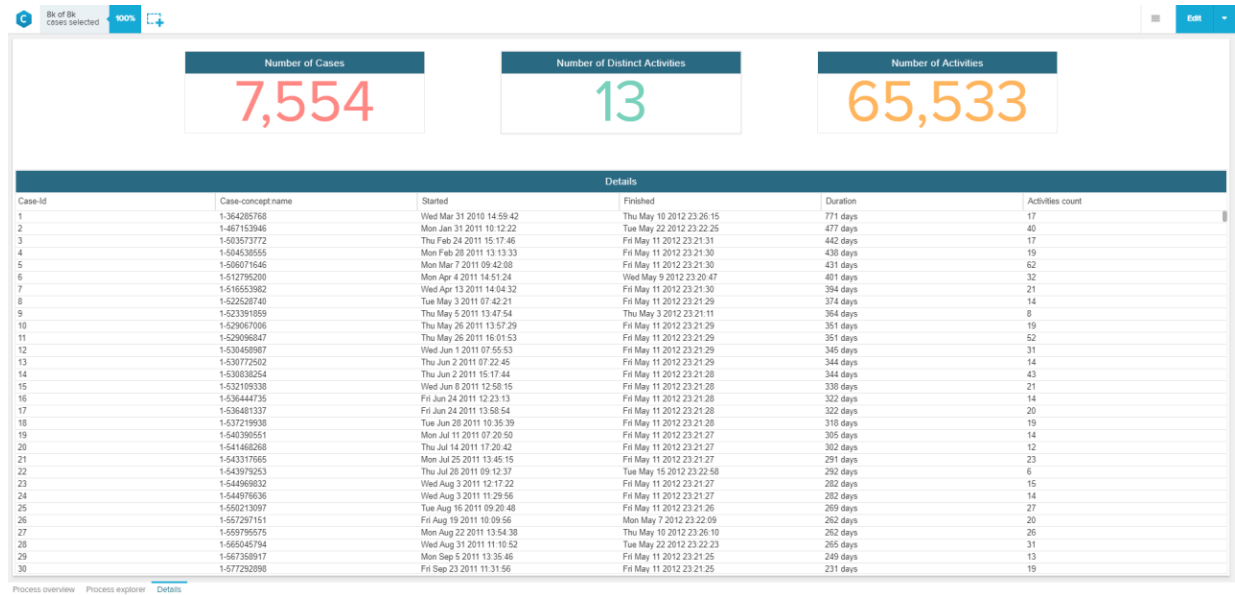
## BPIC13\_incidents



# IMPORT

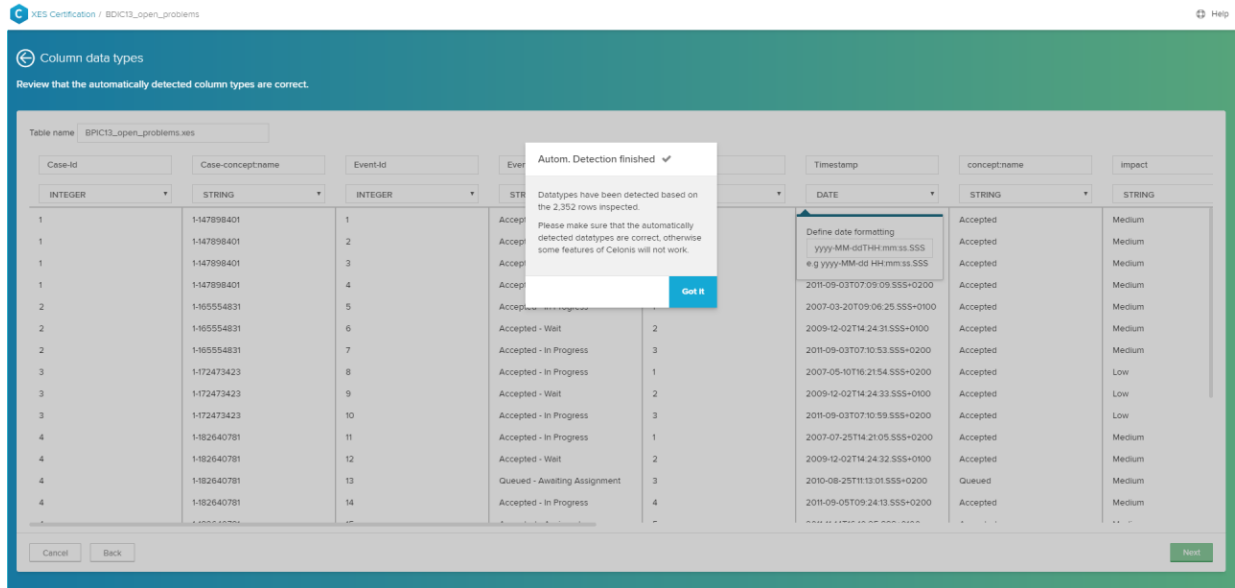


# IMPORT

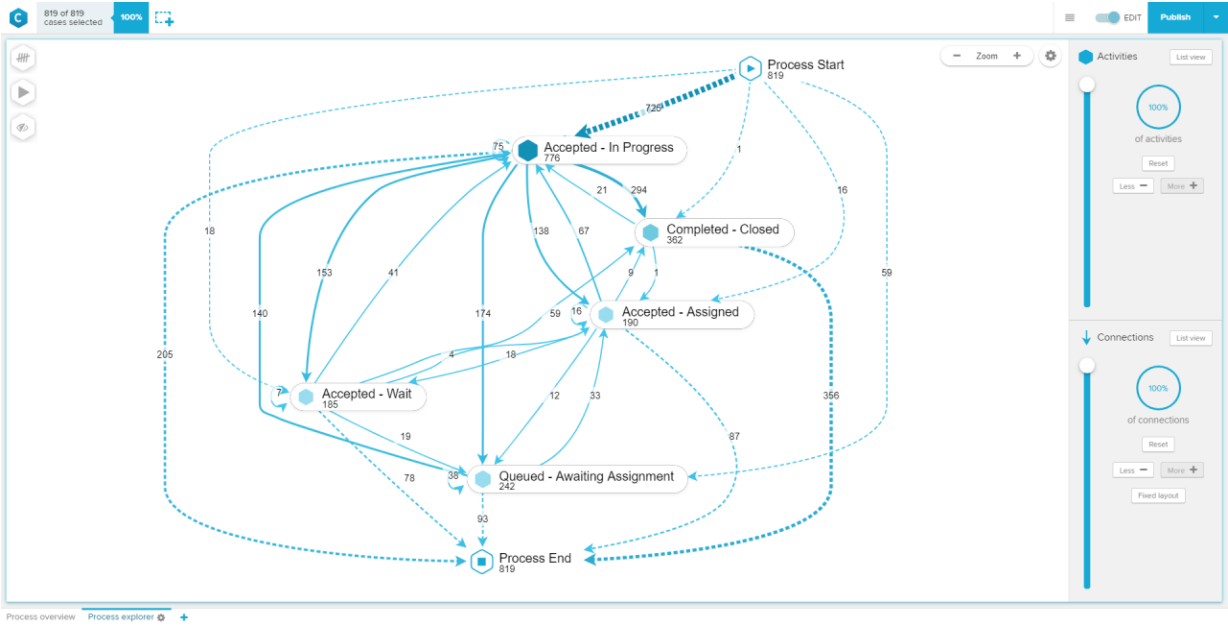
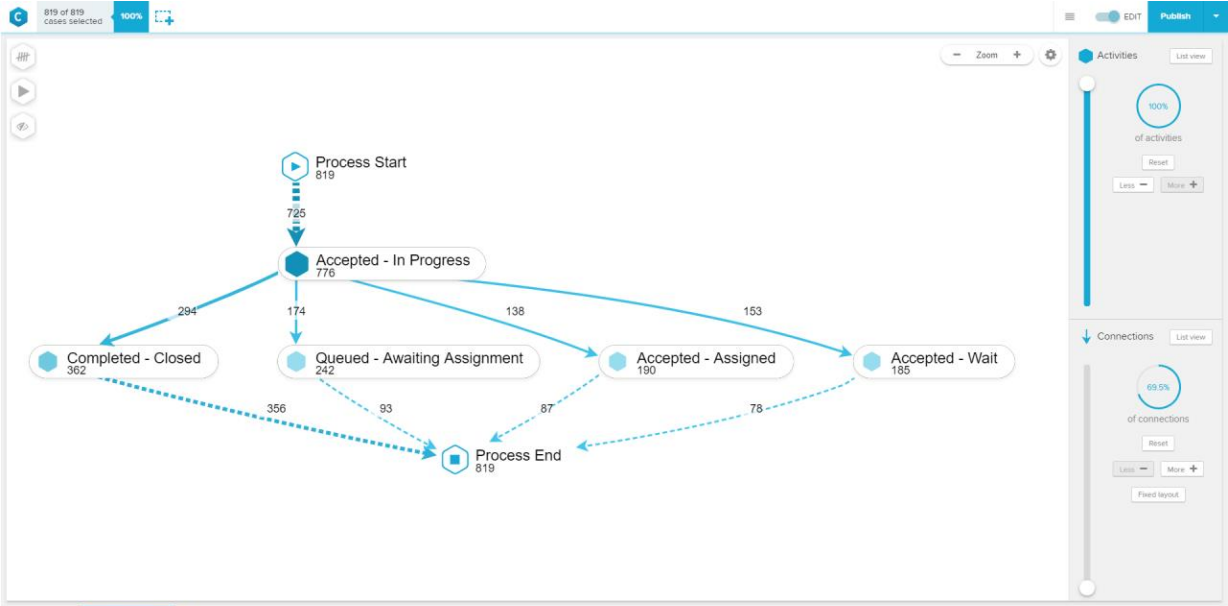


This overview and the process graph show, that the log was imported successfully.

## BPIC13\_open\_problems

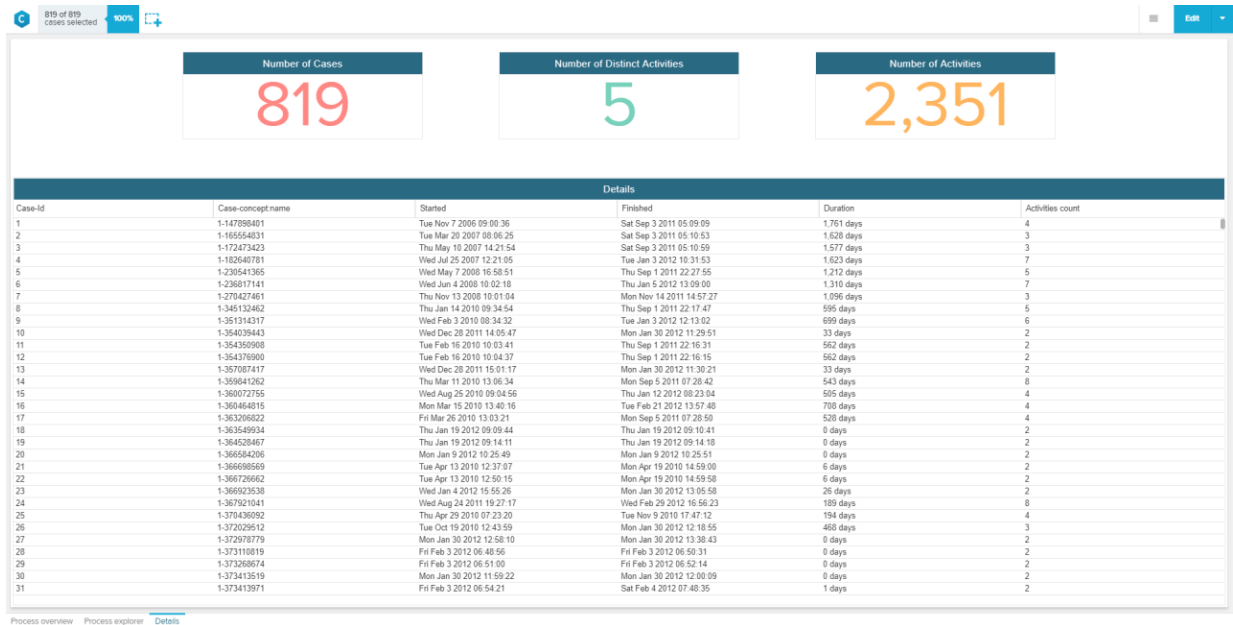


# IMPORT





# IMPORT



This overview and the process graph show, that the log was imported successfully.

## BPIC15\_1

The process graph for all BPIC15 with all activities and connections is a large spaghetti model, which is why we did not screenshot it. However, we again have the detailed view to proof the successful import.











# IMPORT

## BPIC17 – Offer log

XES Certification / BPIC17 - Offer log data model HELP

Column data types

Review that the automatically detected column types are correct.

Table name: BPIC17 - Offer log xes

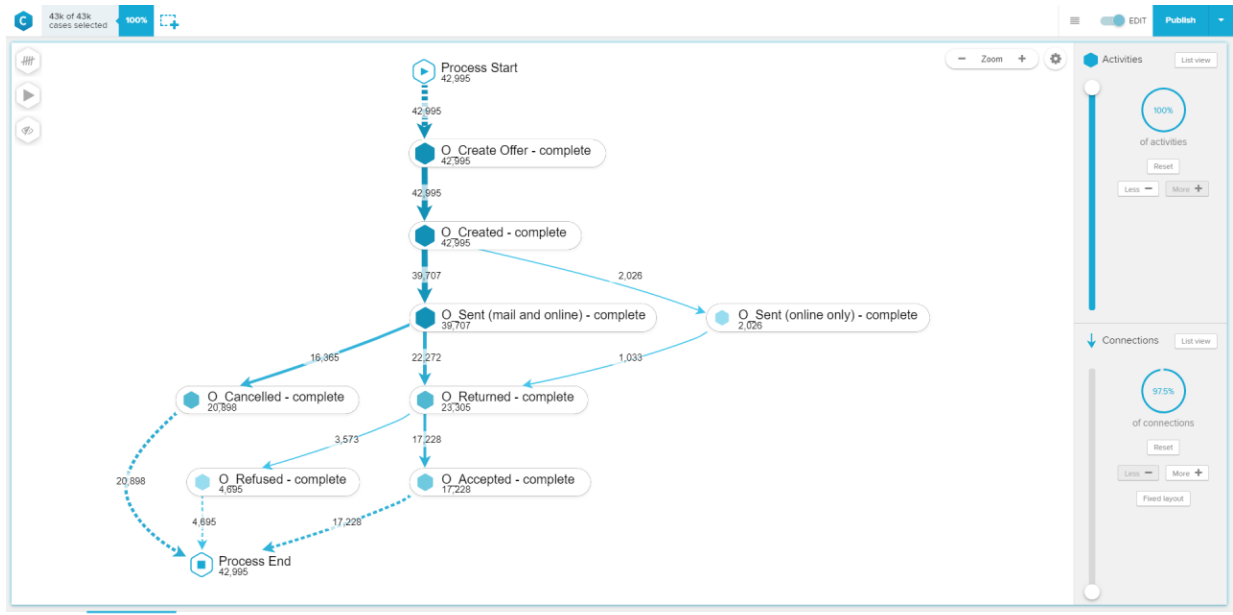
Action	Case-Accepted	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID	Case-ApplicationID
Created	1	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749
statechange	1	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749
Created	1	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749
statechange	1	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749	Application_196483749
Created	1	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670
statechange	1	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670	Application_1120819670

Autom. Detection finished ✓

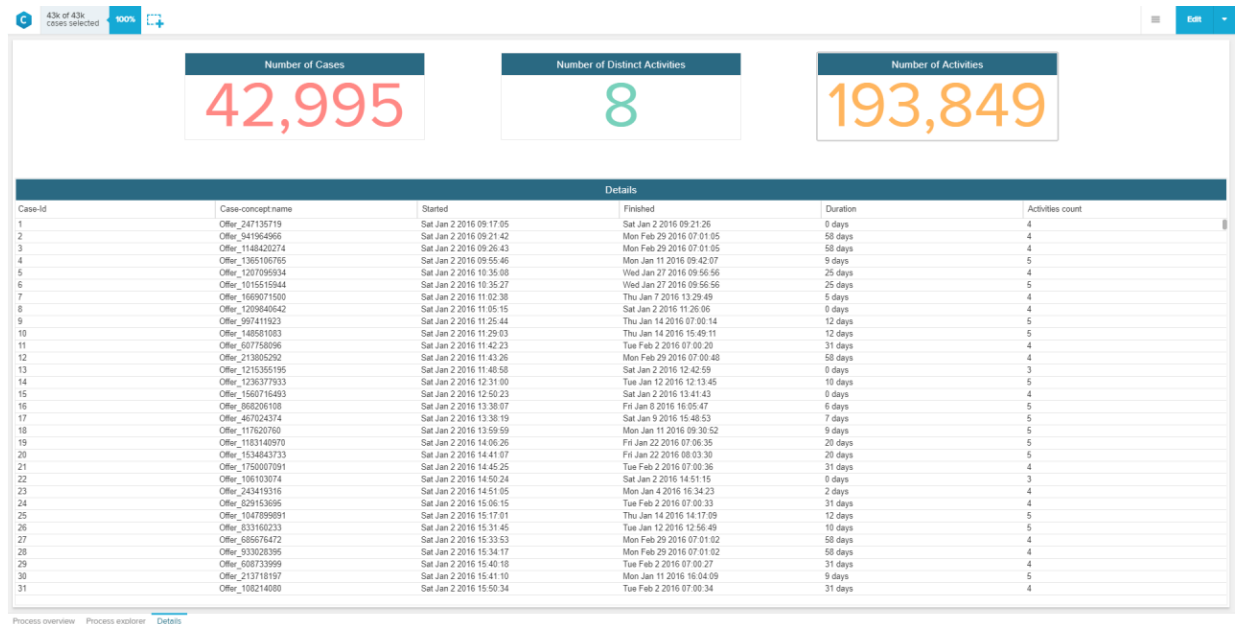
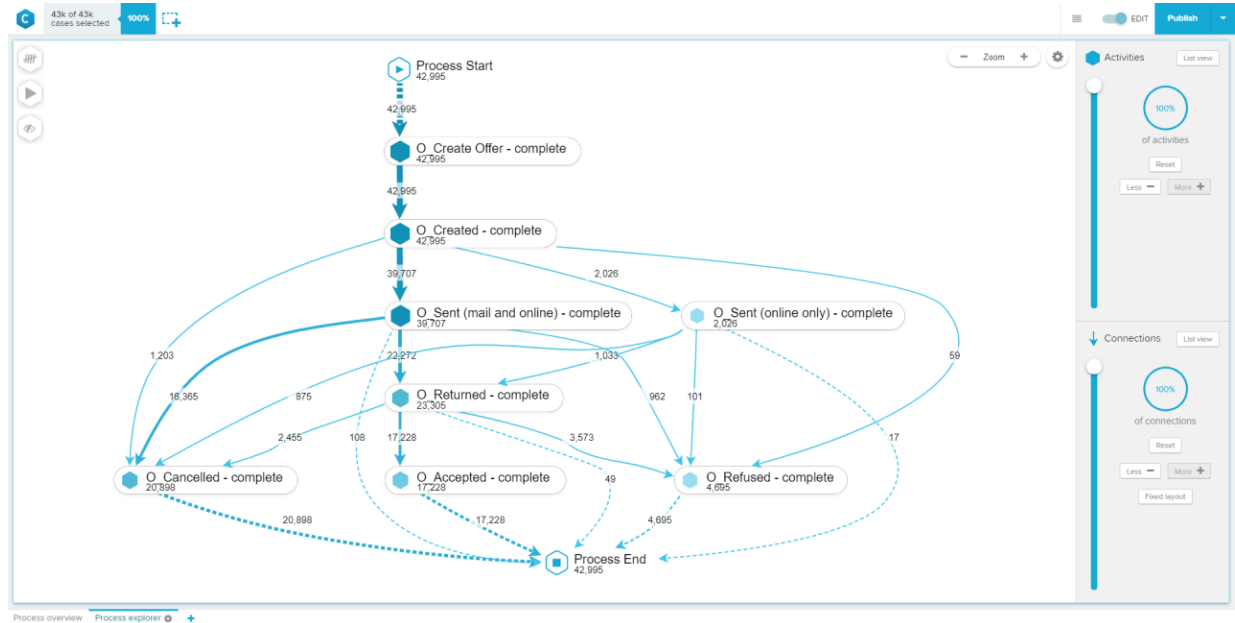
Datatypes have been detected based on the 193,850 rows inspected. Please make sure that the automatically detected datatypes are correct, otherwise some features of Celonis will not work.

Get It

Cancel Back Next



# IMPORT



This overview shows, that the log was imported successfully.



# IMPORT

## BPIC17

XES Certification / BPIC17

### Column data types

Review that the automatically detected column types are correct.

Table name: BPIC\_Challenge\_2017.xes

Accepted	Action	Case-Applicationtype	Case-Id	Case-RequestedAmount	Case-concept name	CreditScore	Event-Id
INTEGER	STRING	STRING	INTEGER	INTEGER	STRING	INTEGER	INTEGER
	Created	New credit	1	20000	Application_652823628		1
	statechange	New credit	1	20000	Application_652823628		2
	Created	New credit	1	20000	Application_652823628		3
	Deleted	New credit	1	20000	Application_652823628		4
	Created	New credit	1	20000	Application_652823628		5
	statechange	New credit	1	20000	Application_652823628		6
	Obtained	New credit	1	Existing loan takeover	Application_652823628		7
	Released	New credit	1	Existing loan takeover	Application_652823628		8
	statechange	New credit	1	Existing loan takeover	Application_652823628		9
1	Created	New credit	1	Existing loan takeover	Application_652823628	979	10
	statechange	New credit	1	Existing loan takeover	Application_652823628		11
	statechange	New credit	1	Existing loan takeover	Application_652823628		12
	Deleted	New credit	1	Existing loan takeover	Application_652823628		13
	Created	New credit	1	Existing loan takeover	Application_652823628		14
	Obtained	New credit	1	Existing loan takeover	Application_652823628		15
	statechange	New credit	1	Existing loan takeover	Application_652823628		16
	Released	New credit	1	Existing loan takeover	Application_652823628		17
	Obtained	New credit	1	Existing loan takeover	Application_652823628		18
	Released	New credit	1	Existing loan takeover	Application_652823628		19

Autom. Detection finished ✓  
Datatypes have been detected based on the 1,202,268 rows inspected.  
Please make sure that the automatically detected datatypes are correct, otherwise some features of Celonis will not work.  
Got it

Cancel Back Next

32k of 32k cases selected 100%

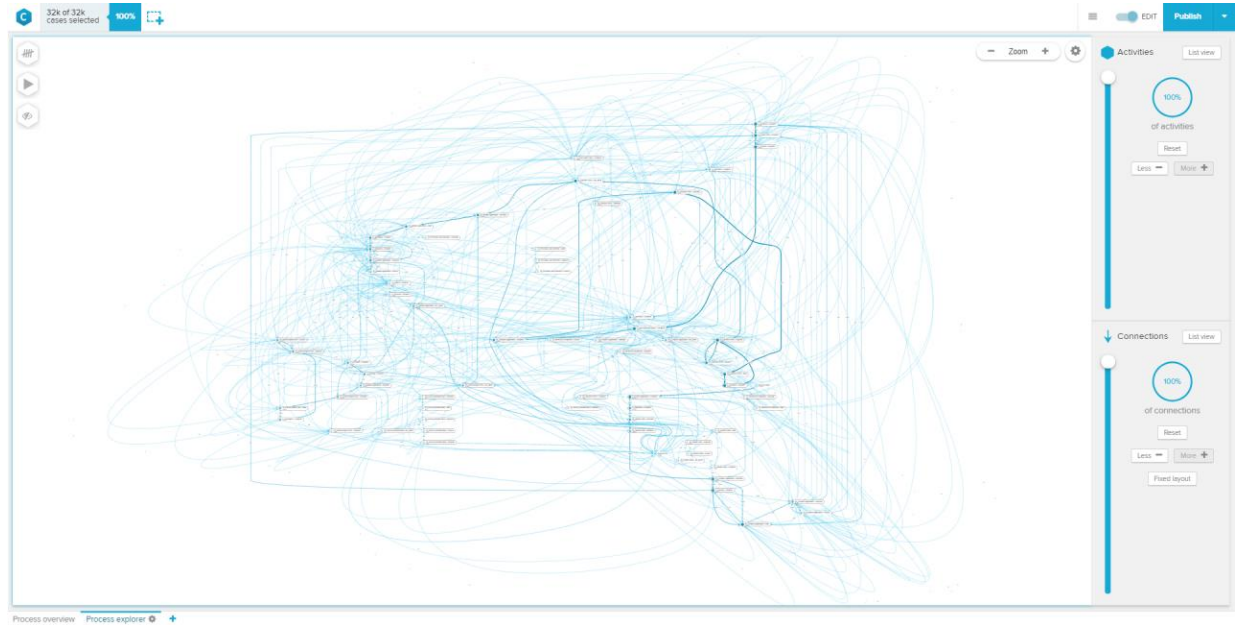
EDIT Publish

Zoom +

Activities 100% of activities  
Reset  
Less More

Connections 62.8% of connections  
Reset  
Less More  
Fixed layout

# IMPORT



Number of Cases		Number of Distinct Activities		Number of Activities	
31,509		66		1,202,267	
Details					
Case-Id	Case-concept name	Started	Finished	Activities count	Duration
1	Application_652823628	Fri Jan 1 2016 09:51:15	Thu Jan 14 2016 15:49:11	40	13 days
2	Application_1691306952	Fri Jan 1 2016 10:16:11	Thu Jan 7 2016 13:29:49	31	6 days
3	Application_425409708	Fri Jan 1 2016 11:19:38	Thu Jan 14 2016 07:00:14	45	13 days
4	Application_1340793196	Fri Jan 1 2016 12:34:53	Thu Jan 28 2016 12:18:51	64	27 days
5	Application_628200980	Fri Jan 1 2016 13:00:04	Tue Feb 2 2016 07:00:20	21	32 days
6	Application_1085809569	Fri Jan 1 2016 13:05:19	Mon Feb 29 2016 07:00:40	27	59 days
7	Application_126995739	Fri Jan 1 2016 13:22:19	Sat Jan 9 2016 15:48:53	51	8 days
8	Application_1878239636	Fri Jan 1 2016 13:35:26	Mon Jan 11 2016 09:30:53	32	10 days
9	Application_619403287	Fri Jan 1 2016 14:13:16	Fri Jan 22 2016 08:03:30	34	21 days
10	Application_1710223761	Fri Jan 1 2016 14:23:21	Tue Feb 2 2016 07:00:34	22	32 days
11	Application_1529124572	Fri Jan 1 2016 14:42:36	Wed Jan 27 2016 09:25:38	43	26 days
12	Application_307032864	Fri Jan 1 2016 16:00:01	Tue Feb 2 2016 07:00:30	21	32 days
13	Application_1120819670	Fri Jan 1 2016 16:22:50	Mon Jan 11 2016 09:42:07	41	10 days
14	Application_42838382	Fri Jan 1 2016 16:58:48	Mon Feb 29 2016 07:01:02	33	59 days
15	Application_180547487	Fri Jan 1 2016 17:04:16	Tue Jan 12 2016 12:56:49	59	11 days
16	Application_1960208234	Fri Jan 1 2016 17:06:50	Tue Feb 2 2016 07:00:21	25	32 days
17	Application_1806387393	Fri Jan 1 2016 17:58:26	Mon Jan 11 2016 13:19:39	38	10 days
18	Application_1111870538	Fri Jan 1 2016 19:13:17	Fri Jan 8 2016 09:59:40	25	7 days
19	Application_1017492916	Fri Jan 1 2016 19:18:43	Tue Feb 2 2016 07:00:27	22	32 days
20	Application_2082119944	Fri Jan 1 2016 21:14:25	Thu Jan 14 2016 14:38:04	27	13 days
21	Application_158985626	Fri Jan 1 2016 21:24:12	Mon Feb 22 2016 10:14:16	41	52 days
22	Application_1618615109	Fri Jan 1 2016 21:57:30	Fri Jan 22 2016 07:55:33	38	21 days
23	Application_319587882	Sat Jan 2 2016 01:08:49	Mon Jan 25 2016 10:13:22	47	23 days
24	Application_1648626914	Sat Jan 2 2016 08:57:81	Wed Jan 13 2016 12:28:00	38	11 days
25	Application_546290368	Sat Jan 2 2016 08:57:83	Mon Jan 11 2016 09:39:35	27	9 days
26	Application_196483749	Sat Jan 2 2016 09:12:07	Mon Feb 29 2016 07:01:05	30	58 days
27	Application_1363909003	Sat Jan 2 2016 09:24:04	Thu Jan 7 2016 13:32:04	22	5 days
28	Application_1553262978	Sat Jan 2 2016 09:27:83	Mon Feb 29 2016 07:01:06	30	58 days
29	Application_1197887446	Sat Jan 2 2016 09:31:11	Sat Feb 27 2016 07:15:59	35	56 days
30	Application_931862671	Sat Jan 2 2016 10:15:48	Mon Feb 1 2016 19:18:40	31	30 days
31	Application_2012588564	Sat Jan 2 2016 10:26:22	Wed Jan 27 2016 09:56:56	50	25 days
32	Application_1625972191	Sat Jan 2 2016 11:06:39	Wed Feb 17 2016 15:49:47	64	46 days
33	Application_1059184025	Sat Jan 2 2016 11:10:04	Fri Jan 8 2016 16:05:47	41	6 days

This overview shows, that the log was imported successfully.

# IMPORT

## ARTIFICIAL LOGS

### FILTERED REPAIR EXAMPLE LOGS

NAME	LEVEL	EVENT ATTRIBUTE KEYS (IF BOLD THEN GLOBAL)
LevelA1	A1	<b>concept:name</b>
LevelA2	A2	Classifier ( <b>concept:name</b> AND <b>lifecycle:transition</b> )
LevelB1	B1	<b>concept:name,</b> <b>lifecycle:transition,</b> <b>time:timestamp</b>
LevelB2	B2	Classifier ( <b>concept:name</b> AND <b>lifecycle:transition</b> ), <b>time:timestamp</b>
LevelC1	C1	<b>concept:name,</b> <b>org:resource</b>
LevelC2	C2	Classifier ( <b>concept:name</b> AND <b>lifecycle:transition</b> ), <b>org:resource</b>
LevelD1	D1	<b>concept:name,</b> <b>concept:instance,</b> <b>lifecycle:transition,</b> <b>org:resource,</b> <b>org:group,</b> <b>org:role,</b> <b>time:timestamp</b>
LevelD2	D2	Classifier ( <b>concept:name</b> AND <b>lifecycle:transition</b> ), <b>concept:instance,</b> <b>org:resource,</b> <b>org:group,</b> <b>org:role,</b> <b>time:timestamp</b>
FlagX1	X1	defectFixed, defectType, <b>Key 1,</b> Key 2, <b>Key 3,</b> <b>Key 4,</b> <b>Key 6,</b> phoneType, numberRepairs, {0,1,2} 2Sa!! +1 <x>, ITEMS:41, #1, o.1.1
FlagX2	X2	defectFixed, defectType, Classifier ( <b>Key 1</b> AND <b>Key 6</b> ), Key 2, <b>Key 3,</b> <b>Key 4,</b>

# IMPORT

phoneType,  
numberRepairs,  
{0,1,2} 2Sa!! +1 <x>,  
ITEMS:41, #1, o.1.1

## ATTRIBUTE TYPES AND VALUES

	KEYS	TYPE	VALUES
<b>concept:instance</b> Key 2		string	instance 1 instance 2 instance 3 instance 4
<b>concept:name (A1 and C1 logs)</b>		string	Analyze Defect+complete Analyze Defect+start Archive Repair+complete Inform User+complete Register+complete Repair (Complex)+complete Repair (Complex)+start Repair (Simple)+complete Repair (Simple)+start Restart Repair+complete Test Repair+complete Test Repair+start
<b>concept:name (other logs)</b> Key 1		string	Analyze Defect Archive Repair Inform User Register Repair (Simple) Repair (Complex) Restart Repair Test Repair
<b>lifecycle:transition</b> Key 6		string	start complete
<b>org:group</b> {0,1,2} 2Sa!! +1 <x>		string	Group - Group 1, 3, and 5 Group 2 and 4
<b>org:resource</b> Key 3		string	SolverC1 SolverC2 SolverC3 SolverS1 SolverS2 SolverS3 System Tester1 Tester2

# IMPORT

			Tester3 Tester4 Tester5 Tester6
<b>org:role</b> ITEMS:41, #1, o.1.1	string		Role 1, 2, and 3 Role 10 Role 9
<b>time:timestamp</b> Key 4	date	<i>Like</i> 1970-01-02T12:23:56.720+01:00	
<b>defectFixed</b>	boolean		true false
			1 10 2 3 4 5 6 7 8 9
<b>defectType</b>	int		0 1 2 3
<b>numberRepairs</b>	int		T1 T2 T3
<b>phoneType</b>	String		

# IMPORT

## Level A1

YES Certification / AX2 / AI data model Help

### Column data types

Review that the automatically detected column types are correct.

Table name: LevelA1.es

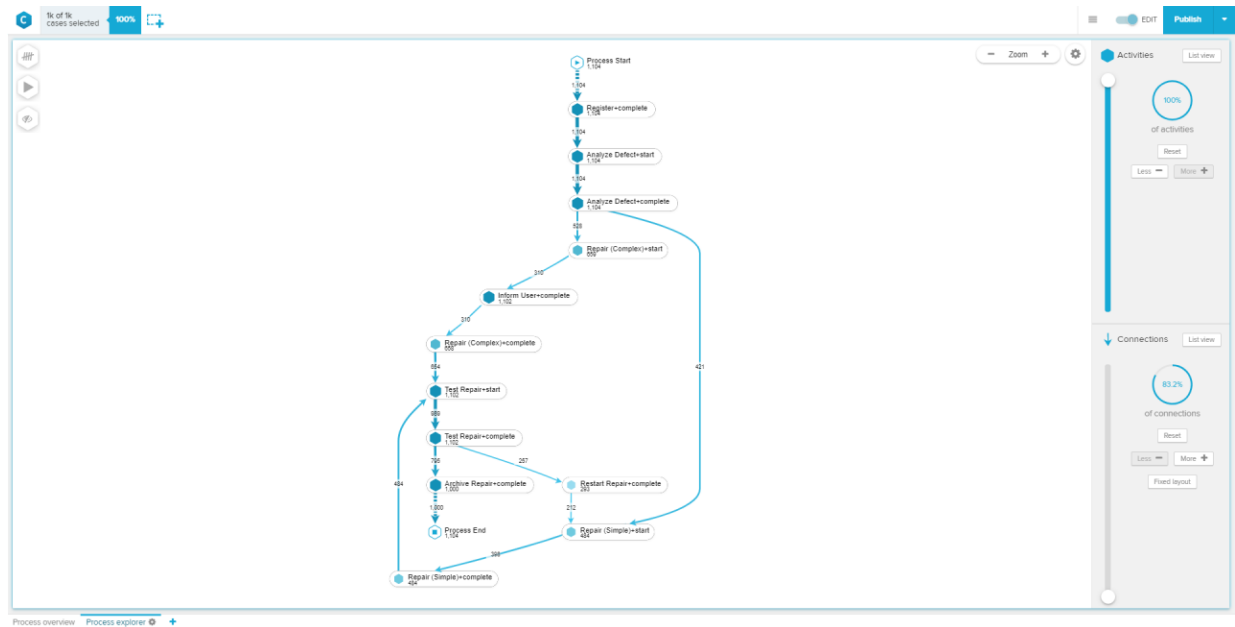
Case-Id	Case-conceptname	Event-Id	Sorting	concept name
INTEGER	STRING	INTEGER	INTEGER	STRING
1	1	1	1	Register+complete
1	1	2	2	Analyze Defect+start
1	1	3	3	Analyze Defect+complete
1	1	4	4	Repair (Complex)+start
1	1	5	5	Repair (Complex)+complete
1	1	6	6	Test Repair+start
1	1	7	7	Test Repair+complete
1	1	8	8	Inform User+complete
1	1	9	9	Archive Repair+complete
2	10	10	1	Register+complete
2	10	11	2	Analyze Defect+start
2	10	12	3	Analyze Defect+complete
2	10	13	4	Repair (Simple)+start
2	10	14	5	Repair (Simple)+complete
2	10	15	6	Test Repair+start
2	10	16	7	Test Repair+complete
2	10	17	8	Restart Repair+complete
2	10	18	9	Repair (Simple)+start
2	10	19	10	Inform User+complete

Autom. Detection finished ✓

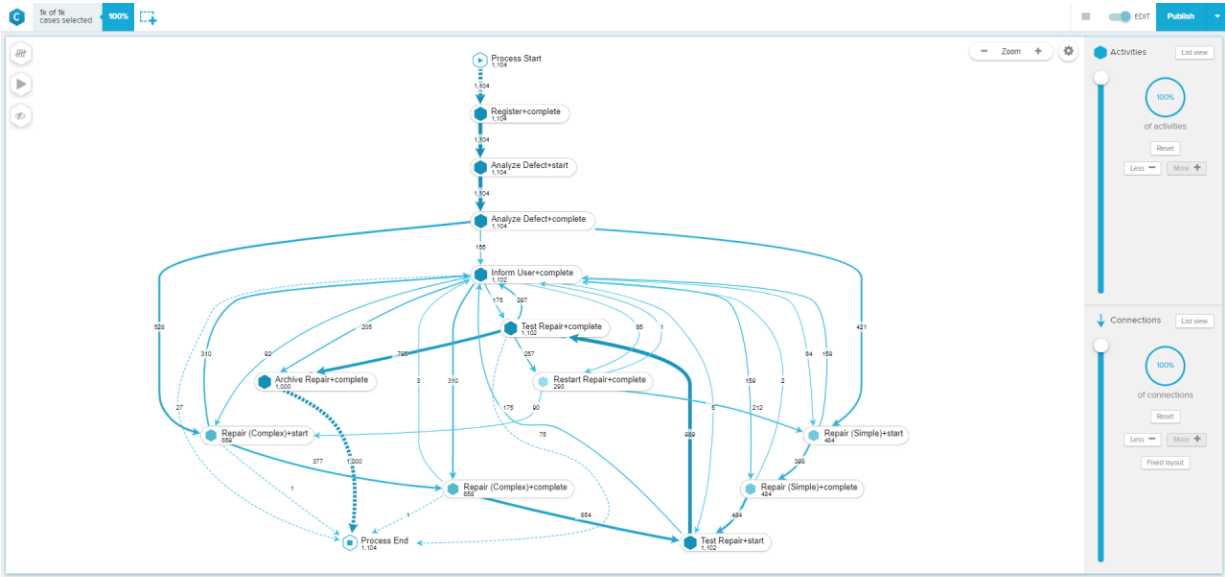
Datatypes have been detected based on the 11,856 rows inspected.

Please make sure that the automatically detected datatypes are correct, otherwise some features of Celonis will not work.

Buttons: Cancel, Back, Got it, Test



# IMPORT



Number of Cases		Number of Distinct Activities		Number of Activities	
1,104		12		11,855	
Details					
concept name	Activities count				
Register+complete	1,104				
Analyze Defect+start	1,104				
Analyze Defect+complete	1,104				
Repair (Complex)+start	725				
Repair (Complex)+complete	724				
Test Repair+start	1,508				
Test Repair+complete	1,508				
Inform User+complete	1,102				
Archive Repair+complete	1,000				
Repair (Simple)+start	785				
Repair (Simple)+complete	785				
Restart Repair+complete	406				

This process graph and the overview, showing the concept:name and the respective count of the activities, prove that the concept:name was used.

# IMPORT

## Level B1

Column data types

Review that the automatically detected column types are correct.

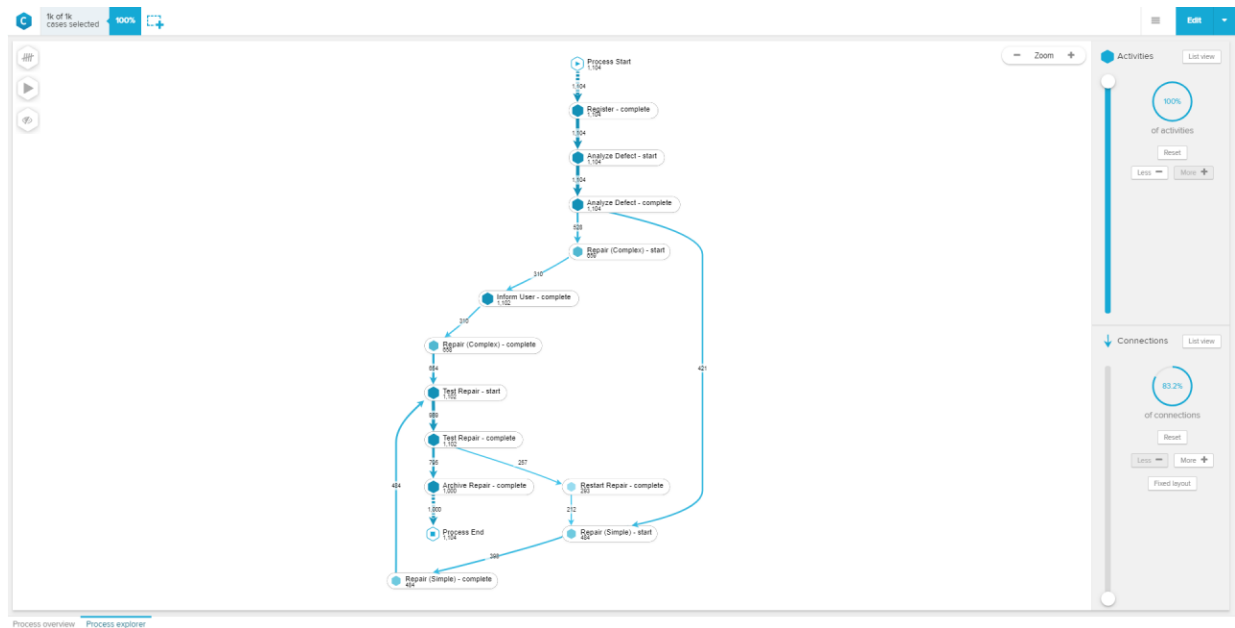
Table name: LevelB1.es

Case-Id	Case-conceptname	Event-Id	Event-Name	Timestamp	concept.name	lifecycle/transition	time.timestamp
INTEGER	STRING	INTEGER	STRING	DATE	STRING	STRING	DATE
1	1	1	Register - complete		Register	complete	
1	1	2	Analyze Defect - start		Analyze Defect	start	
1	1	3	Analyze Defect - complete		Analyze Defect	complete	
1	1	4	Repair (Complex) - start	1970-01-02T12:43:31.555+0100	Repair (Complex)	start	1970-01-02T12:43:31
1	1	5	Repair (Complex) - complete	1970-01-02T13:04:17.555+0100	Repair (Complex)	complete	1970-01-02T13:04:17
1	1	6	Test Repair - start	1970-01-02T13:07:32.555+0100	Test Repair	start	1970-01-02T13:07:32
1	1	7	Test Repair - complete	1970-01-02T13:15:39.555+0100	Test Repair	complete	1970-01-02T13:15:39
1	1	8	Inform User - complete	1970-01-02T13:34:25.555+0100	Inform User	complete	1970-01-02T13:34:25
1	1	9	Archive Repair - complete	1970-01-02T13:38:19.555+0100	Archive Repair	complete	1970-01-02T13:38:19
2	10	10	Register - complete	1970-01-01T11:41:55.555+0100	Register	complete	1970-01-01T11:41:55.5
2	10	11	Analyze Defect - start	1970-01-01T11:45:56.555+0100	Analyze Defect	start	1970-01-01T11:45:56
2	10	12	Analyze Defect - complete	1970-01-01T11:54:25.555+0100	Analyze Defect	complete	1970-01-01T11:54:25
2	10	13	Repair (Simple) - start	1970-01-01T12:18:02.555+0100	Repair (Simple)	start	1970-01-01T12:18:02
2	10	14	Repair (Simple) - complete	1970-01-01T12:29:02.555+0100	Repair (Simple)	complete	1970-01-01T12:29:02
2	10	15	Test Repair - start	1970-01-01T12:33:01.555+0100	Test Repair	start	1970-01-01T12:33:01
2	10	16	Test Repair - complete	1970-01-01T12:42:24.555+0100	Test Repair	complete	1970-01-01T12:42:24
2	10	17	Restart Repair - complete	1970-01-01T12:53:02.555+0100	Restart Repair	complete	1970-01-01T12:53:02
2	10	18	Repair (Simple) - start	1970-01-01T12:55:40.555+0100	Repair (Simple)	start	1970-01-01T12:55:40
2	10	19	Inform User - complete	1970-01-01T12:59:38.555+0100	Inform User	complete	1970-01-01T12:59:38

Autom. Detection finished ✓  
Datatypes have been detected based on the 11,856 rows inspected.  
Please make sure that the automatically detected datatypes are correct, otherwise some features of Celonis will not work.  
Got it

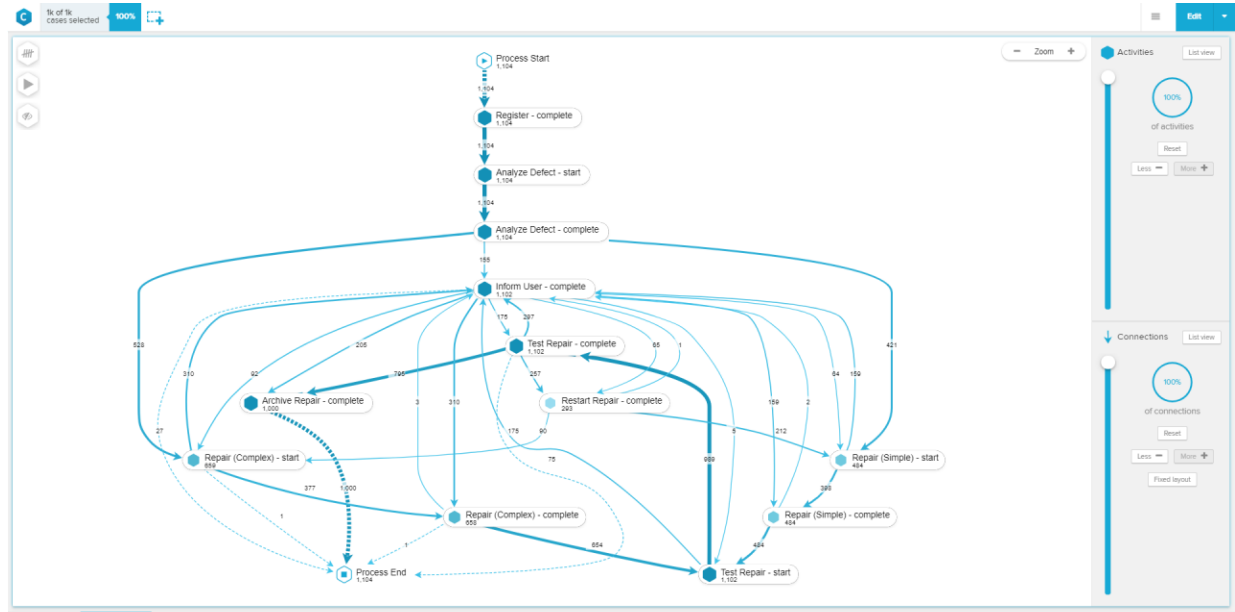
Define date formatting  
yyyy-MM-ddTHH:mm:ss.SSS  
# g yyyy-MM-dd HH:mm:ss.SSS

Cancel Back Next





# IMPORT



Process overview Process explorer

CASE ID	NUMBER OF ACTIVI...	DURATION	CASE-ID
1	9	1h	1
2	14	2h	2
3	9	1h	3
4	9	1h	4
5	8	2h	5
6	8	1h	6
7	13	2h	7
8	8	1h	8
9	8	1h	9
10	8	2h	10
11	8	1h	11
12	18	2h	12
13	8	1h	13
14	9	2h	14
15	13	2h	15
16	8	2h	16
17	8	1h	17
18	8	2h	18
19	8	1h	19
20	8	1h	20
21	18	3h	21
22	8	1h	22
23	8	1h	23
24	8	1h	24
25	9	2h	25
26	8	1h	26
27	8	1h	27
28	8	1h	28
29	8	1h	29
30	18	2h	30

CASE DETAILS

Search activity attributes

**Register - complete** \*  
Fri, Jan 2, 1970 11:25 AM -14m

Case-id 1  
Case-concept name 1  
Event-id 1  
Sorting 1  
concept name Register  
lifecycle.transition complete  
time.timestamp Fri, Jan 2, 1970 11:25 AM

**Analyze Defect - start** \*  
Fri, Jan 2, 1970 11:28 AM -11m

Case-id 1  
Case-concept name 1  
Event-id 2  
Sorting 2  
concept name Analyze Defect  
lifecycle.transition start  
time.timestamp Fri, Jan 2, 1970 11:28 AM

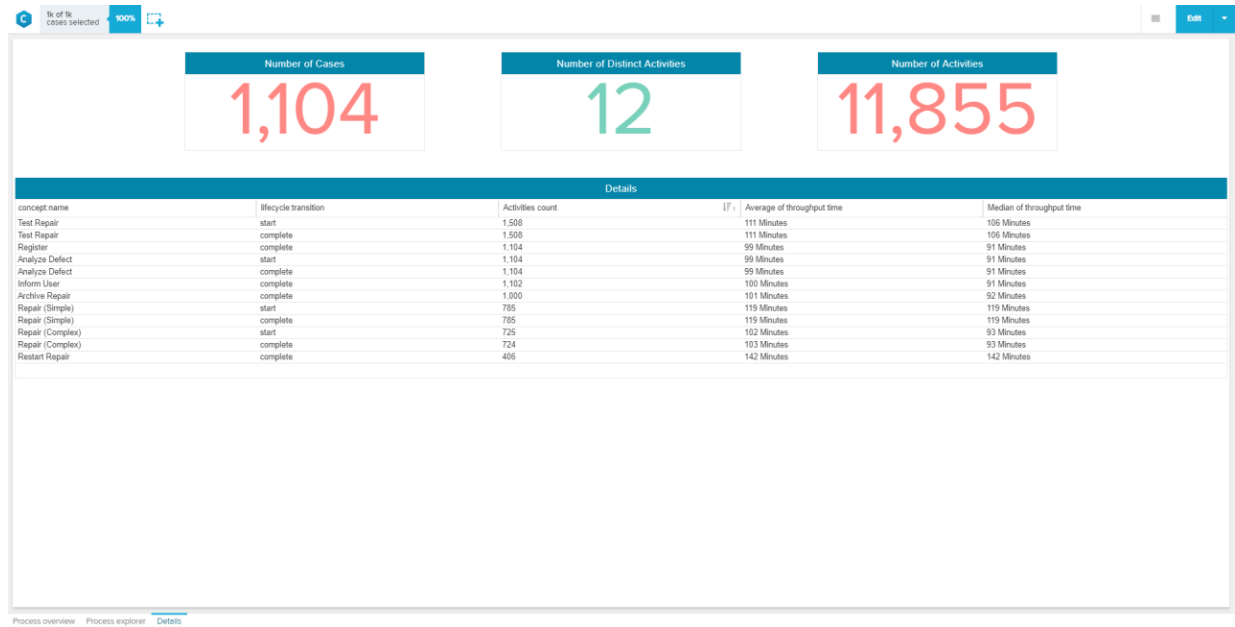
**Analyze Defect - complete** \*  
Fri, Jan 2, 1970 11:39 AM 0

Case-id 1  
Case-concept name 1  
Event-id 3  
Sorting 3  
concept name Analyze Defect  
lifecycle.transition complete  
time.timestamp Fri, Jan 2, 1970 11:39 AM

Select case

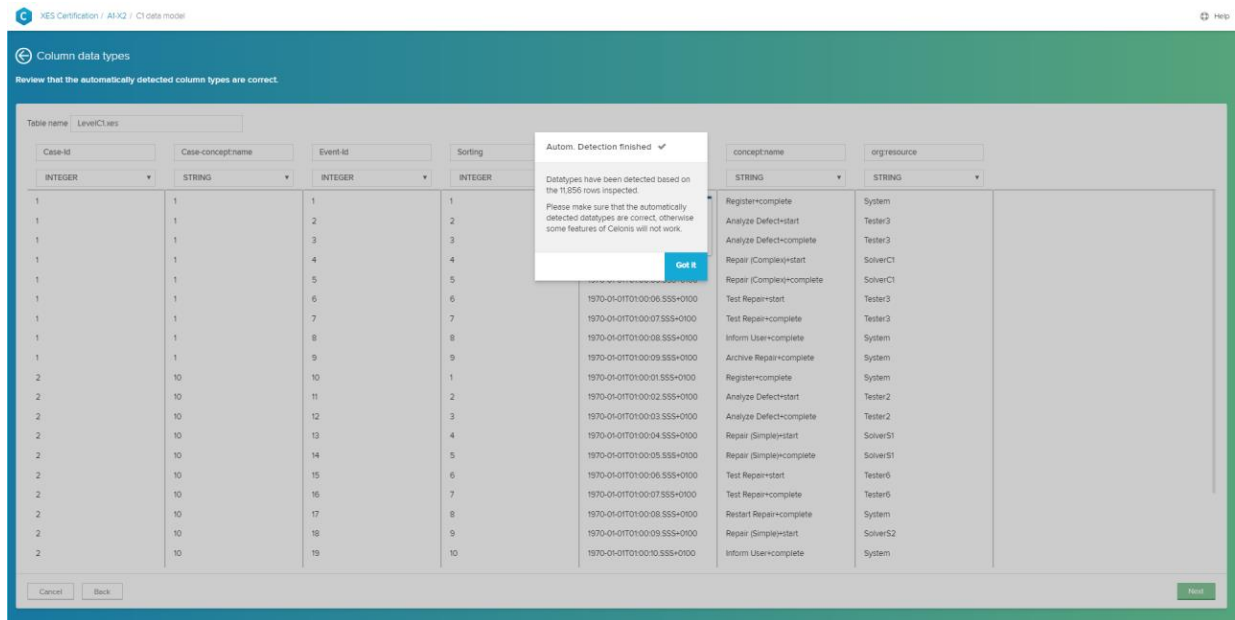
Process overview Process explorer Details Case Explorer 4

# IMPORT

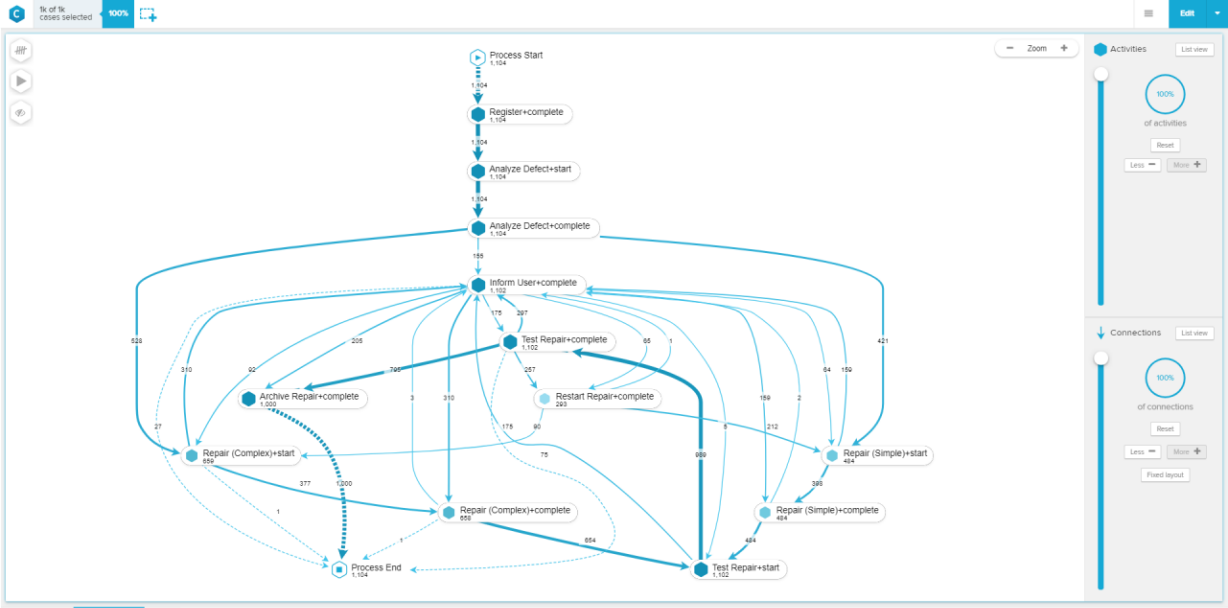
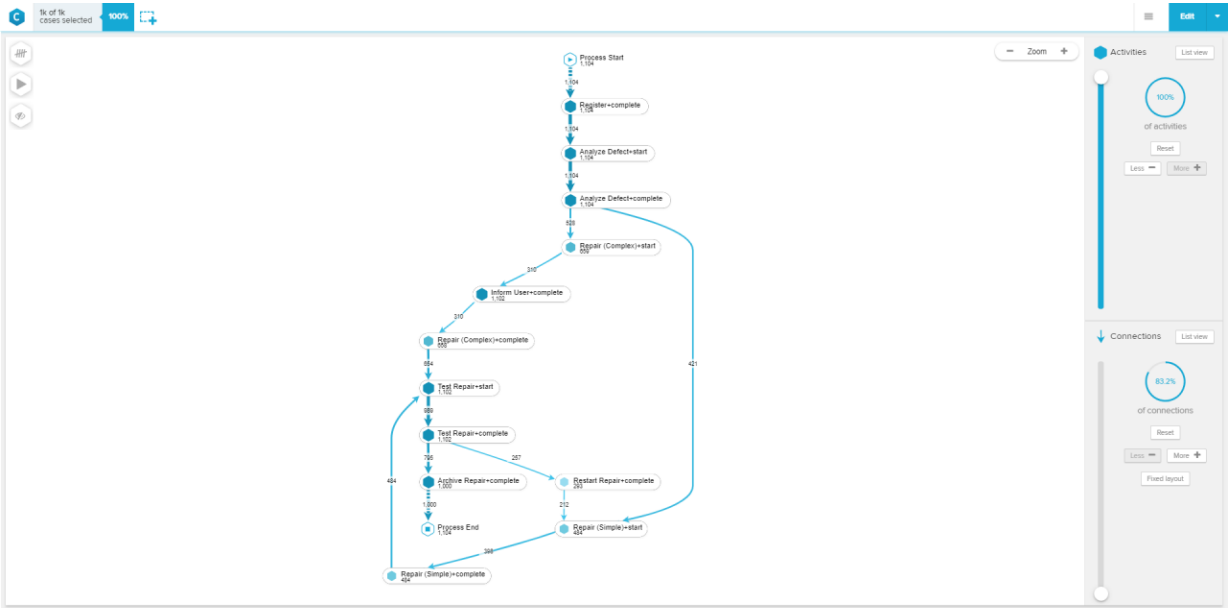


This overview, showing the concept:name, the lifecycle:transition, the average and median of the throughput time, and the respective count of the activities, proves that the concept:name, lifecycle:transition and time:timestamp was used.

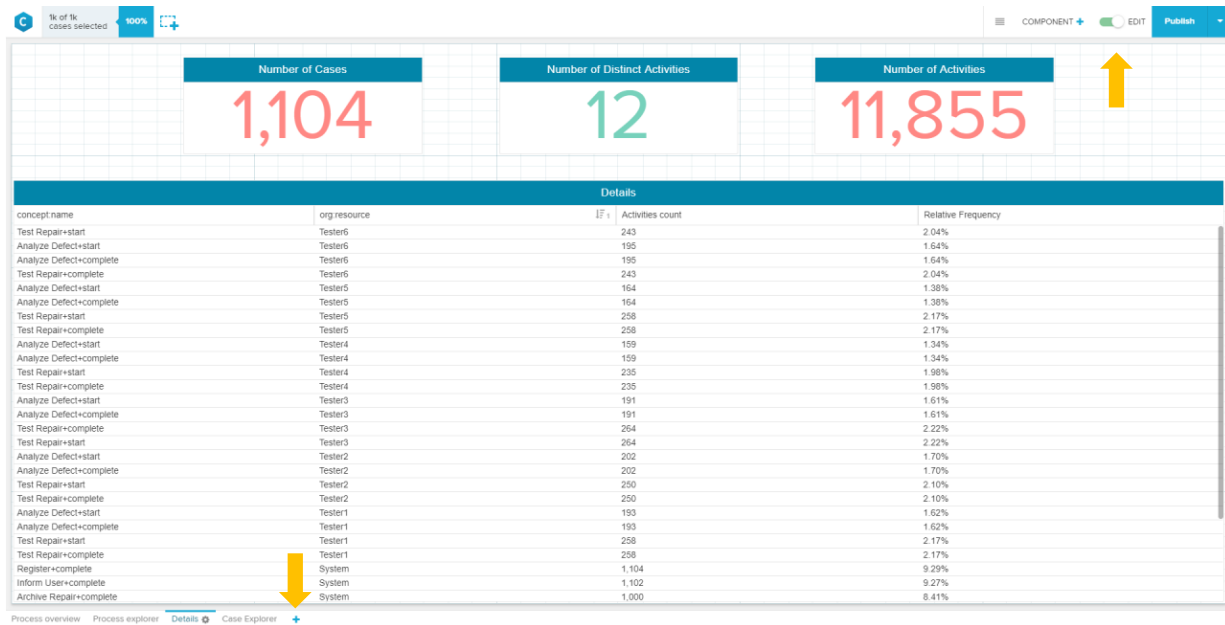
## Level C1



# IMPORT

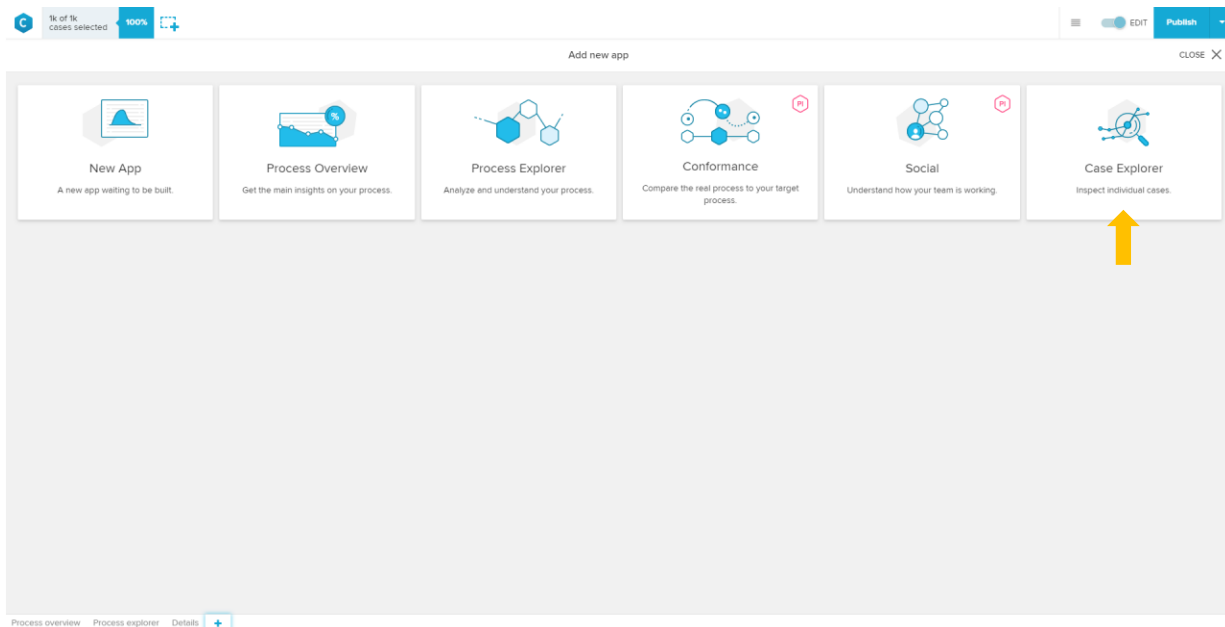


# IMPORT



By showing concept:name and org:resource in combination with two KPI's in the OLAP Table, you can see that they were used.

Next you need to click on the plus symbol to create a new sheet.



Select the “Case Explorer”

# IMPORT

The screenshot shows a software interface with a table of cases and a sidebar. The table has columns for CASE ID, NUMBER OF ACTIVITY, DURATION, and CASE-ID. The sidebar on the right is titled 'CASE DETAILS' and contains a search bar and a list of activities with their status and dates. A 'Select case' button is at the bottom of the sidebar.

CASE ID	NUMBER OF ACTIVITY	DURATION	CASE-ID
1	9	8s	1
2	14	13s	2
3	9	8s	3
4	9	8s	4
5	8	7s	5
6	8	7s	6
7	13	12s	7
8	8	7s	8
9	8	7s	9
10	8	7s	10
11	8	7s	11
12	18	17s	12
13	8	7s	13
14	9	8s	14
15	13	12s	15
16	8	7s	16
17	8	7s	17
18	8	7s	18
19	8	7s	19
20	8	7s	20
21	18	17s	21
22	8	7s	22
23	8	7s	23
24	8	7s	24
25	9	8s	25
26	8	7s	26
27	8	7s	27
28	8	7s	28
29	8	7s	29
30	18	17s	30
31	8	7s	31
32	8	7s	32
33	8	7s	33
34	8	7s	34
35	8	7s	35
36	9	8s	36
37	8	7s	37
38	8	7s	38

Process overview Process explorer Details Case Explorer

If you click on e.g. the first case, you can observe the case details on the right.

You can see the process of this particular case. If you click on a process step, you can see further details.

The screenshot shows the same software interface as above, but with the 'CASE DETAILS' sidebar expanded. A yellow circle highlights the details for a specific case, showing fields like Case-id, Case-concept name, Event-id, Sorting, and org resource. The details are as follows:

- Register+complete - Thu, Jan 1, 1970 12:00 AM
- Case-id: 1
- Case-concept name: 1
- Event-id: 1
- Sorting: 1
- org resource: System
- Analyze Defect+start - Thu, Jan 1, 1970 12:00 AM
- Case-id: 1
- Case-concept name: 1
- Event-id: 2
- Sorting: 2
- org resource: Tester3
- Analyze Defect+complete - Thu, Jan 1, 1970 12:00 AM
- Case-id: 1
- Case-concept name: 1
- Event-id: 3
- Sorting: 3
- org resource: Tester3
- Repair (Complex)+start - Thu, Jan 1, 1970 12:00 AM
- Case-id: 1
- Case-concept name: 1
- Event-id: 4
- Sorting: 4
- org resource: SolverC1
- Repair (Complex)+complete - Thu, Jan 1, 1970 12:00 AM

Process overview Process explorer Details Case Explorer

When viewing the further details, you can again see that “concept:name” and “org:resource” are used.

# IMPORT

## Level D1

SES Certification / AI-X2 / D1 data model

Column data types

Review that the automatically detected column types are correct.

Table name: LevelD1.es

Case-Id	Case-conceptname	Event-Id	Event-Name	Timestamp	conceptinstance	conceptname	lifecycletransition
INTEGER	STRING	INTEGER	STRING	DATE	STRING	STRING	STRING
1	1	1	Register - complete		instance 1	Register	complete
1	1	2	Analyze Defect - start		instance 1	Analyze Defect	start
1	1	3	Analyze Defect - complete		instance 1	Analyze Defect	complete
1	1	4	Repair (Complex) - start	1970-01-02T12:40:50.555+0100	instance 1	Repair (Complex)	start
1	1	5	Repair (Complex) - complete	1970-01-02T13:00:41.555+0100	instance 1	Repair (Complex)	complete
1	1	6	Test Repair - start	1970-01-02T13:03:15.555+0100	instance 1	Test Repair	start
1	1	7	Test Repair - complete	1970-01-02T13:11:08.555+0100	instance 1	Test Repair	complete
1	1	8	Inform User - complete	1970-01-02T13:28:49.555+0100	instance 1	Inform User	complete
1	1	9	Archive Repair - complete	1970-01-02T13:31:35.555+0100	instance 1	Archive Repair	complete
2	10	10	Register - complete	1970-01-01T11:34:00.555+0100	instance 1	Register	complete
2	10	11	Analyze Defect - start	1970-01-01T11:36:54.555+0100	instance 1	Analyze Defect	start
2	10	12	Analyze Defect - complete	1970-01-01T11:44:59.555+0100	instance 1	Analyze Defect	complete
2	10	13	Repair (Simple) - start	1970-01-01T12:07:52.555+0100	instance 1	Repair (Simple)	start
2	10	14	Repair (Simple) - complete	1970-01-01T12:17:13.555+0100	instance 1	Repair (Simple)	complete
2	10	15	Test Repair - start	1970-01-01T12:19:52.555+0100	instance 1	Test Repair	start
2	10	16	Test Repair - complete	1970-01-01T12:28:31.555+0100	instance 1	Test Repair	complete
2	10	17	Restart Repair - complete	1970-01-01T12:37:47.555+0100	instance 1	Restart Repair	complete
2	10	18	Repair (Simple) - start	1970-01-01T12:40:03.555+0100	instance 2	Repair (Simple)	start
2	10	19	Inform User - complete	1970-01-01T12:43:26.555+0100	instance 1	Inform User	complete

Autom. Detection finished ✓  
Datatypes have been detected based on the 11,856 rows inspected.  
Please make sure that the automatically detected datatypes are correct, otherwise some features of Celonis will not work.  
Got it

Define date formatting  
yyyy-MM-ddTHH:mm:ss.SSS  
e.g. yyyy-MM-dd HH:mm:ss.SSS

Cancel Back Next

% of tk cases selected: 100%

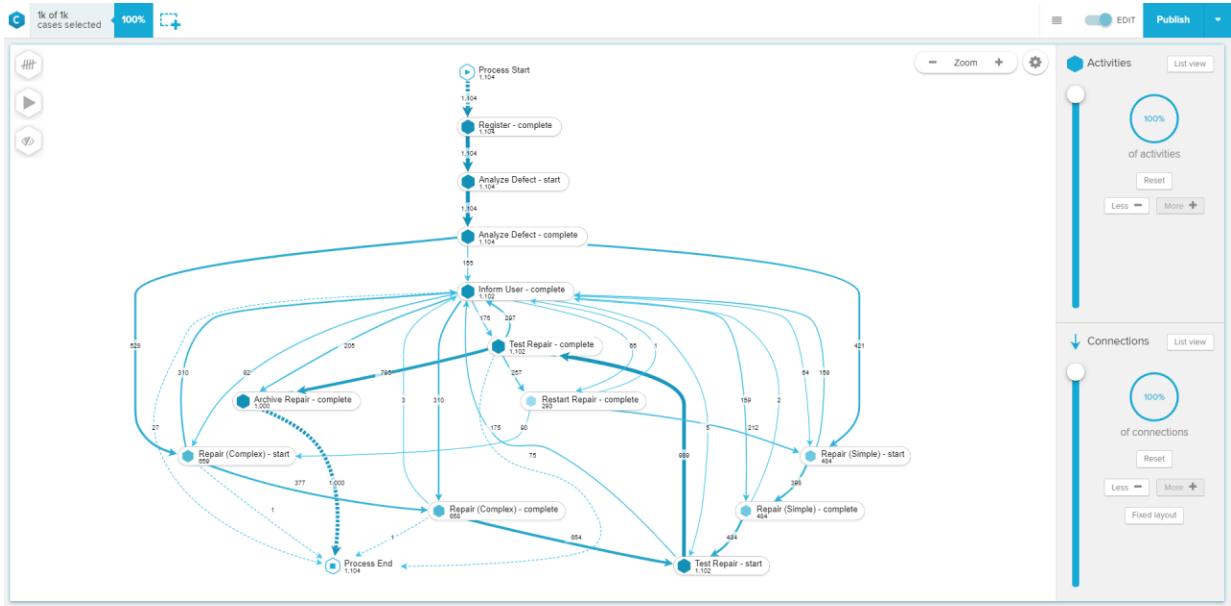
EDIT Publish

Activities: 100% of activities

Connections: 83.2% of connections

Process overview | Process explorer | Details | New App 5 | Case Explorer 4

# IMPORT



Number of Cases: 1,104

Number of Distinct Activities: 12

Number of Activities: 11,855

Details						
concept instance	concept name	lifecycle transition	org group	org resource	org role	Timestamp
instance 1	Register	complete	Group -	System	-	Fri Jan 2 1970 11:24:45
instance 1	Analyze Defect	start	Groups 2 and 4	Tester3	Role 9	Fri Jan 2 1970 11:28:03
instance 1	Analyze Defect	complete	Groups 2 and 4	Tester3	Role 9	Fri Jan 2 1970 11:37:53
instance 1	Repair (Complex)	start	Groups 1, 3, and 5	SolverC1	Role 10	Fri Jan 2 1970 11:40:50
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Jan 2 1970 12:00:41
instance 1	Test Repair	start	Groups 2 and 4	Tester3	Role 9	Fri Jan 2 1970 12:03:15
instance 1	Test Repair	complete	Groups 2 and 4	Tester3	Role 9	Fri Jan 2 1970 12:11:08
instance 1	Inform User	complete	Group -	System	-	Fri Jan 2 1970 12:28:49
instance 1	Archive Repair	complete	Group -	System	-	Fri Jan 2 1970 12:31:35
instance 1	Register	complete	Group -	System	-	Thu Jan 1 1970 10:34:00
instance 1	Analyze Defect	start	Groups 2 and 4	Tester2	Role 9	Thu Jan 1 1970 10:36:54
instance 1	Analyze Defect	complete	Groups 2 and 4	Tester2	Role 9	Thu Jan 1 1970 10:44:59
instance 1	Repair (Simple)	start	Groups 1, 3, and 5	SolverS1	Roles 1, 2, and 3	Thu Jan 1 1970 11:07:52
instance 1	Repair (Simple)	complete	Groups 1, 3, and 5	SolverS1	Roles 1, 2, and 3	Thu Jan 1 1970 11:17:13
instance 1	Test Repair	start	Groups 2 and 4	Tester6	Role 9	Thu Jan 1 1970 11:19:52
instance 1	Test Repair	complete	Groups 2 and 4	Tester6	Role 9	Thu Jan 1 1970 11:28:31
instance 1	Restart Repair	complete	Group -	System	-	Thu Jan 1 1970 11:37:47
instance 2	Repair (Simple)	start	Groups 1, 3, and 5	SolverS2	Roles 1, 2, and 3	Thu Jan 1 1970 11:40:03
instance 2	Inform User	complete	Group -	System	-	Thu Jan 1 1970 11:43:26
instance 2	Repair (Simple)	complete	Groups 1, 3, and 5	SolverS2	Roles 1, 2, and 3	Thu Jan 1 1970 11:53:07
instance 2	Test Repair	start	Groups 2 and 4	Tester4	Role 9	Thu Jan 1 1970 11:54:48
instance 2	Test Repair	complete	Groups 2 and 4	Tester4	Role 9	Thu Jan 1 1970 12:03:05
instance 1	Archive Repair	complete	Group -	System	-	Thu Jan 1 1970 12:09:58
instance 1	Register	complete	Group -	System	-	Sun Jan 4 1970 02:25:17

This shows that the data was correctly loaded into Celonis. Next, we will apply filters on all attributes to show, that all of them are used.

Therefore, you need to click on the icon that is pointed out by the orange arrow.

# IMPORT

1% of 1k cases selected 100%

Choose selection type

- Attribute selection**  
Select cases based on specified attributes.  
e.g. only cases where region is "china", or cases that started on 2nd of February 2015.
- Activity selection**  
Select cases that flow or don't flow through specified activities.  
e.g. only cases that start at "Create Purchase Order" and flow through "Delivery of goods"
- Process flow selection**  
Select cases where a specified activity is or isn't followed by another specified activity.  
e.g. only cases where "Invoice sent" is followed by "Invoice canceled"
- Throughput time selection**  
Select cases where duration between two activities is faster/slower than defined period of time.  
e.g. only cases where duration from "Item sent" to "Item received" is shorter than 3 days.
- Rework selection**  
Select cases where an activity occurs less or more times than defined threshold  
e.g. only cases where "Invoice paid" happens more than once.
- Crop selection**  
Crop the cases to display only activities occurring inside the cropped area.  
e.g. only the process between "Phone support ticket created" and "Process end".

Done

Click on the field "Attribute Selection"

1% of 1k cases selected 100%

Attribute selection

Table And Column

LevelD1.xes

Case-id

Case-concept.name

Event-id

Event-Name

Sorting

Timestamp

concept.instance

concept.name

lifecycle.transition

org.group

org.resource

org.role

time.timestamp

LevelD1.xes\_CASES

COLUMN VALUES

Select a column on the left to view its values

Attribute selection

Select cases based on column values.

100%  
1104  
Cases

Done

Now click on the field "LevelD1.xes". A dropdown will open and you can select the attributes you want to filter on.



# IMPORT

The screenshot shows the 'Attribute selection' interface. At the top, a progress bar indicates '100%' of cases selected. The main area is divided into three sections: 'Table And Column', 'COLUMN VALUES', and a summary panel. The 'Table And Column' section on the left lists various attributes, with 'concept:instance' highlighted by a yellow arrow. The 'COLUMN VALUES' section in the center shows a list of instances, with 'instance 1' selected and highlighted by a yellow arrow. The summary panel on the right shows a circular progress indicator at 100% and the text '100% 1104 Cases'. A 'Done' button is located at the bottom right.

For example, let's start with "concept:instance" and select "instance 1"

The screenshot shows the 'Attribute selection' interface after a second selection. The progress bar now shows '60%' of cases selected. The 'Table And Column' section on the left has 'concept:name' highlighted by a yellow arrow. The 'COLUMN VALUES' section in the center shows a list of repair types, with 'Repair (Complex)' selected and highlighted by a yellow arrow. The summary panel on the right shows a circular progress indicator at 60% and the text '60% 659 Cases'. A 'Done' button is located at the bottom right.

Now, click on "concept:name" and select "Repair (Complex)".

# IMPORT

The screenshot shows the 'Attribute selection' interface. At the top, a progress bar indicates '1k of 1k cases selected' and '100%'. The breadcrumb trail shows 'conceptinstance instance 1' > 'conceptname Repair (Complex)'. The 'Table And Column' list on the left includes 'LevelID1.xes' (selected), 'Case-id', 'Case-concept.name', 'Event-id', 'Event-Name', 'Sorting', 'Timestamp', 'concept.instance', 'concept.name', 'lifecycle.transition', 'org.group', 'org.resource', 'org.role', and 'time.timestamp'. The 'COLUMN VALUES' section shows a search bar and two options: 'complete' (checked) and 'start' (unchecked). On the right, a circular gauge shows '60%' and '659 Cases'. A 'Done' button is at the bottom right.

Now click on “lifecycle:transition” and select “complete”

The screenshot shows the 'Attribute selection' interface after the second filter is applied. The breadcrumb trail now includes 'lifecycle:transition complete'. The 'Table And Column' list on the left has 'lifecycle.transition' selected. The 'COLUMN VALUES' section shows three options: 'Groups 1, 3, and 5' (checked), 'Group -' (unchecked and greyed out), and 'Groups 2 and 4' (unchecked and greyed out). The circular gauge on the right still shows '60%' and '659 Cases'. A 'Done' button is at the bottom right.

Now click on “org:group” and select “Groups 1,3, and 5”. Please note that Celonis marked the other options in Grey, as these are not possible anymore because the already applied filters exclude them.

# IMPORT

The screenshot shows the 'Attribute selection' interface. At the top, a progress bar indicates '100%' of cases selected. The breadcrumb trail shows: concept:instance instance 1 > concept:name Repair (Complex) > lifecycle:transition complete > org:group Groups 1, 3, and 5. The 'Attribute selection' panel on the right shows a circular progress indicator for 23% (258 Cases). The main area is divided into 'Table And Column' and 'COLUMN VALUES'. The 'Table And Column' list includes 'LevelID1.xes' and 'LevelID1.xes\_CASES'. The 'COLUMN VALUES' list shows 'org:resource' with 'SolverC1' selected. A 'Done' button is at the bottom right.

Now click on “org:resource” and select “SolverC1”

The screenshot shows the 'Attribute selection' interface after selecting 'org:resource' and 'SolverC1'. The breadcrumb trail now includes 'org:resource SolverC1'. The 'Attribute selection' panel on the right shows a circular progress indicator for 23% (258 Cases). The main area is divided into 'Table And Column' and 'COLUMN VALUES'. The 'Table And Column' list includes 'LevelID1.xes' and 'LevelID1.xes\_CASES'. The 'COLUMN VALUES' list shows 'org:role' with 'Role 10' selected. A 'Done' button is at the bottom right.

Now click on “org:role” and select “Role 10”

# IMPORT

The screenshot shows a data analysis tool interface. At the top, a status bar indicates "258 of 1k cases selected" and "23%" completion. Below this are several filter tabs: "conceptinstance instance 1", "conceptname Repair (Complex)", "lifecycle:transition complete", "org:group Groups 1, 3, and 5", "org:resource SolverC1", and "org:role Role 10". A "Keep selection" button is also visible. The main area displays three summary cards: "Number of Cases" (1), "Number of Distinct Activities" (1), and "Number of Activities" (1). Below these is a "Details" table with columns: concept instance, concept name, lifecycle transition, org group, org resource, org role, and Timestamp. The table contains 25 rows of data. A yellow arrow points to a green checkmark icon on the right side of the table header, and another yellow arrow points to a row in the table.

concept instance	concept name	lifecycle transition	org group	org resource	org role	Timestamp
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Wed Feb 11 1970 22:13:29
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Wed Feb 11 1970 17:18:59
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Wed Feb 11 1970 07:06:15
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Wed Feb 11 1970 02:33:00
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Wed Feb 11 1970 01:41:04
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Tue Feb 10 1970 13:48:03
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Tue Feb 10 1970 12:39:38
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Tue Feb 10 1970 03:36:19
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Tue Feb 10 1970 03:36:57
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 22:07:25
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 16:22:44
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 14:06:40
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 09:17:35
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 08:17:47
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Mon Feb 9 1970 05:26:53
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Sun Feb 8 1970 20:26:11
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Sun Feb 8 1970 16:14:09
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Sun Feb 8 1970 14:56:58
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Sat Feb 7 1970 14:58:54
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Feb 6 1970 16:20:16
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Feb 6 1970 15:40:48
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Feb 6 1970 14:50:27
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Feb 6 1970 09:51:03
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Fri Feb 6 1970 06:43:57

There is also another way of applying a filter. Simply click on one element of the OLAP table and confirm the selection.

The screenshot shows the same data analysis tool interface, but with "1 of 1k cases selected" and "0%" completion. The filter tabs are the same. The summary cards still show "Number of Cases" (1), "Number of Distinct Activities" (1), and "Number of Activities" (1). The "Details" table now only contains one row of data. A yellow arrow points to the "Timestamp" column header in the table.

concept instance	concept name	lifecycle transition	org group	org resource	org role	Timestamp
instance 1	Repair (Complex)	complete	Groups 1, 3, and 5	SolverC1	Role 10	Tue Feb 10 1970 03:36:57

You can now see, that after applying all the filters, only one activity is left. You can see all set filters on the top of the screen. This shows that all attributes in the log were used.

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