Provisional Upload Procedure to Celonis OCDM

Due to recent changes breaking compatibility, the uploader from OCEL to Celonis OCDM is not working anymore. This document specifies a provisional upload procedure, waiting for automated support by the new APIs.

The first step is about downloading the file **splitter.py**:

https://github.com/Javert899/ocel20-celonis-connector/blob/main/splitter.py

And modifying the bottom part (just after __main__) to ingest your OCEL 1.0 / 2.0 object-centric event log using pm4py. Executing the file, a collection of CSVs is stored in the folder “target”, which are the base for the next steps of the upload procedure.

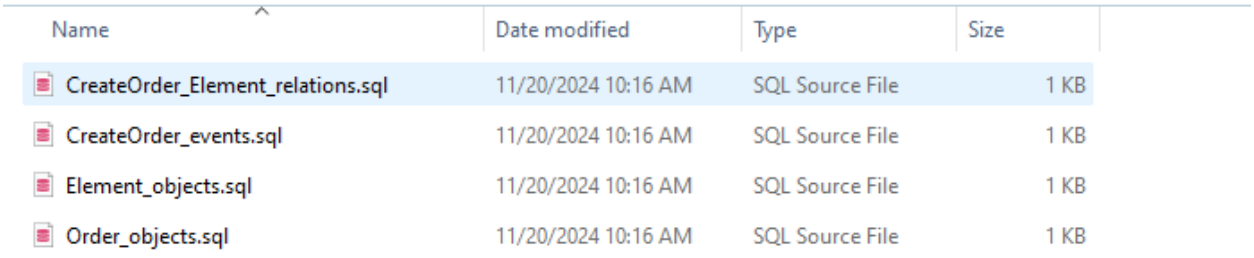
For a minimal example, we loaded the OCEL 1.0 event log available at:

https://github.com/pm4py/pm4py-core/blob/release/tests/input_data/ocel/example_log.jsonocel

and filtered that on a minimal configuration of object and event types:

- Object types: order, element
- Event types: Create Order
- Relationships:
  - (Create Order, order) 1:1
  - (Create Order, element) 1:N

Executing the script, we get the following files inside the “target” folder:



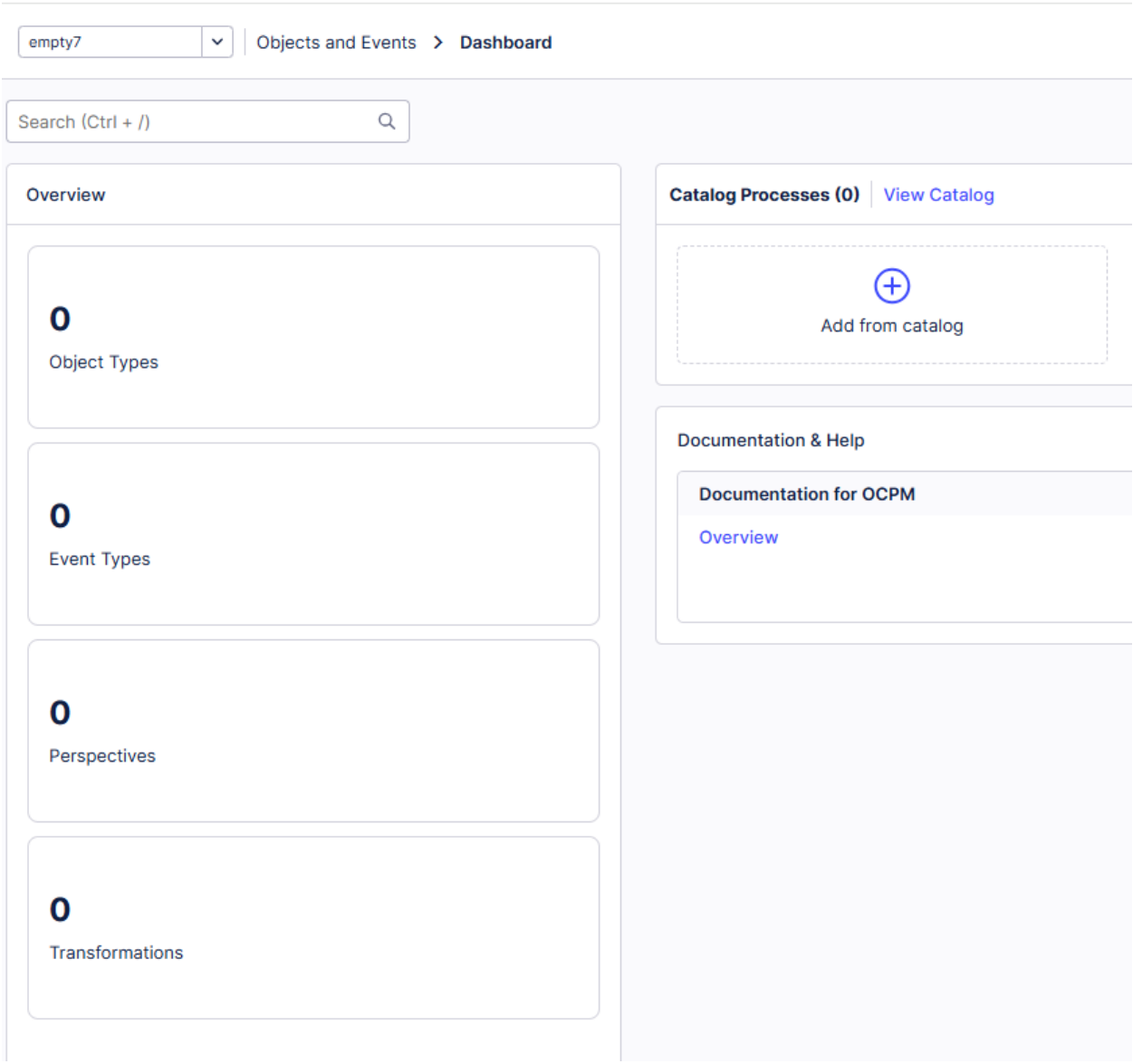
Name	Date modified	Type	Size
CreateOrder_Element_relations.sql	11/20/2024 10:16 AM	SQL Source File	1 KB
CreateOrder_events.sql	11/20/2024 10:16 AM	SQL Source File	1 KB
Element_objects.sql	11/20/2024 10:16 AM	SQL Source File	1 KB
Order_objects.sql	11/20/2024 10:16 AM	SQL Source File	1 KB

We see the two object types stored as SQL files, the activity stored as SQL file, and the (potentially) many-to-many relationships stored in a separate “relations” SQL file.

The next steps are done inside Celonis.

First, create an empty data pool (in our case, “empty7”).

Then, reach the “Objects & Events” feature



click on “Object Types” and start the creation of an object type.

Let’s start by “Order”, adding the additional attributes that are associated to an “Order” in the given OCEL.

Create object type

Name

Order

Color

Description Optional

Tags and categories

Custom Processes (0)

Catalog Processes (0)

Metadata (0)

Attributes (3)

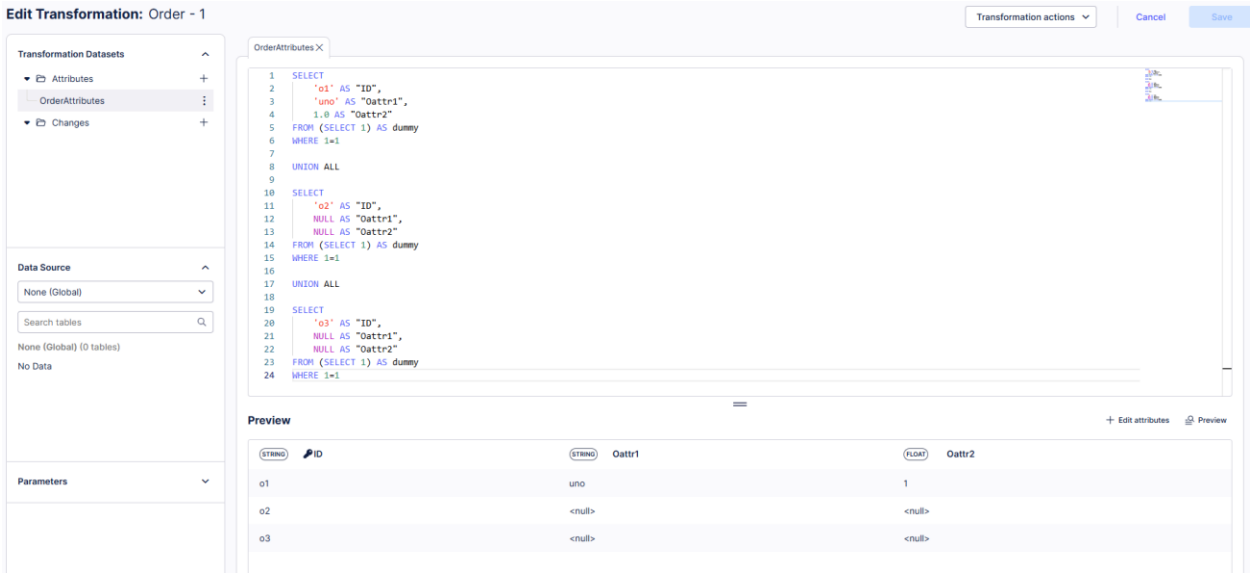
+ Add

Name	Data Type
Oattr2	Floating point
Oattr1	String
ID	String

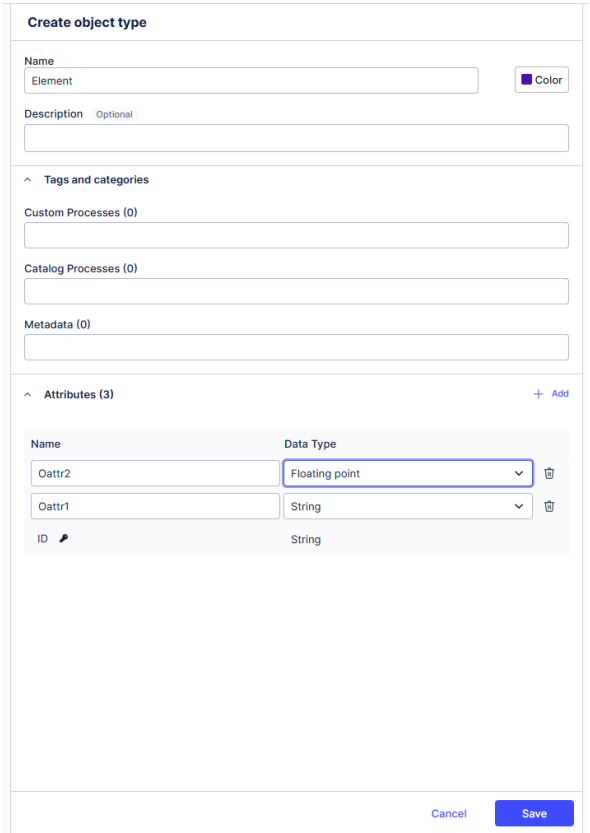
Cancel

Save

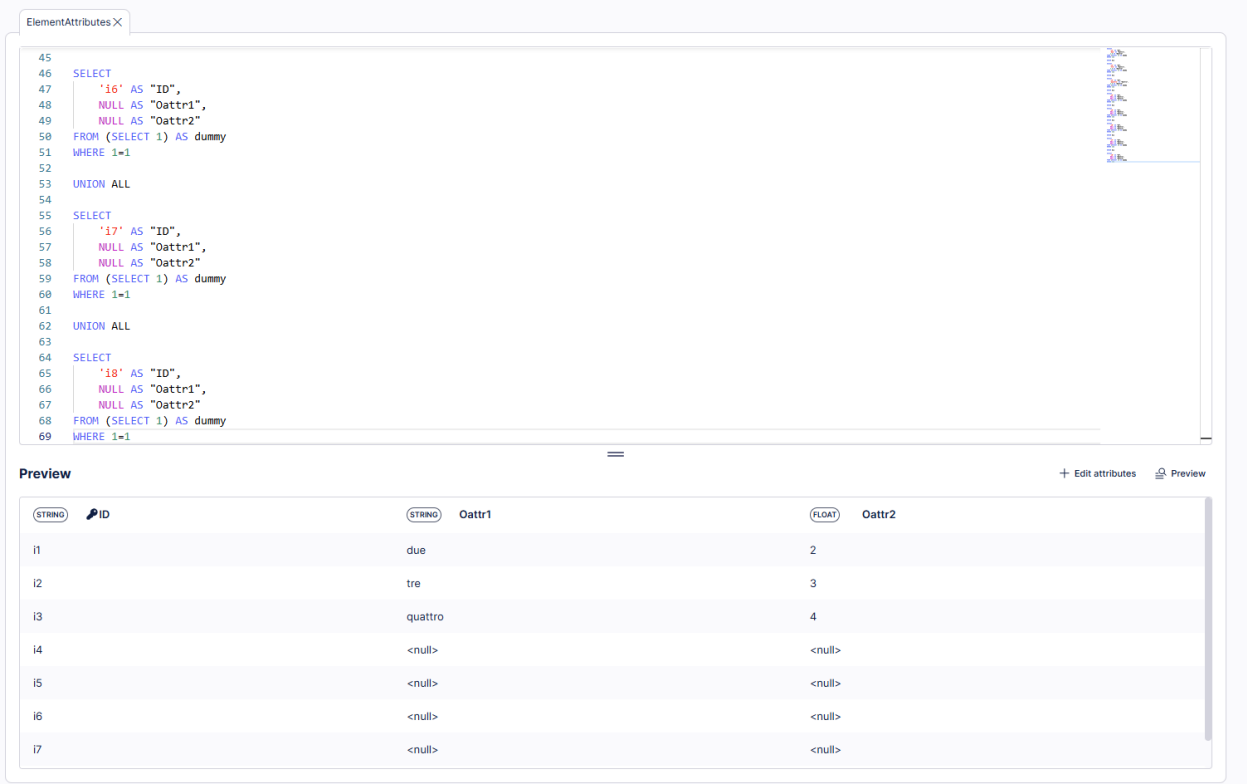
To “inject” the actual objects, reach the “Transformations” page by clicking the corresponding button on the right of the page. Proceed to “Add transformation” and copy-paste inside the SQL instructions. Click “Save” and then “Preview”.



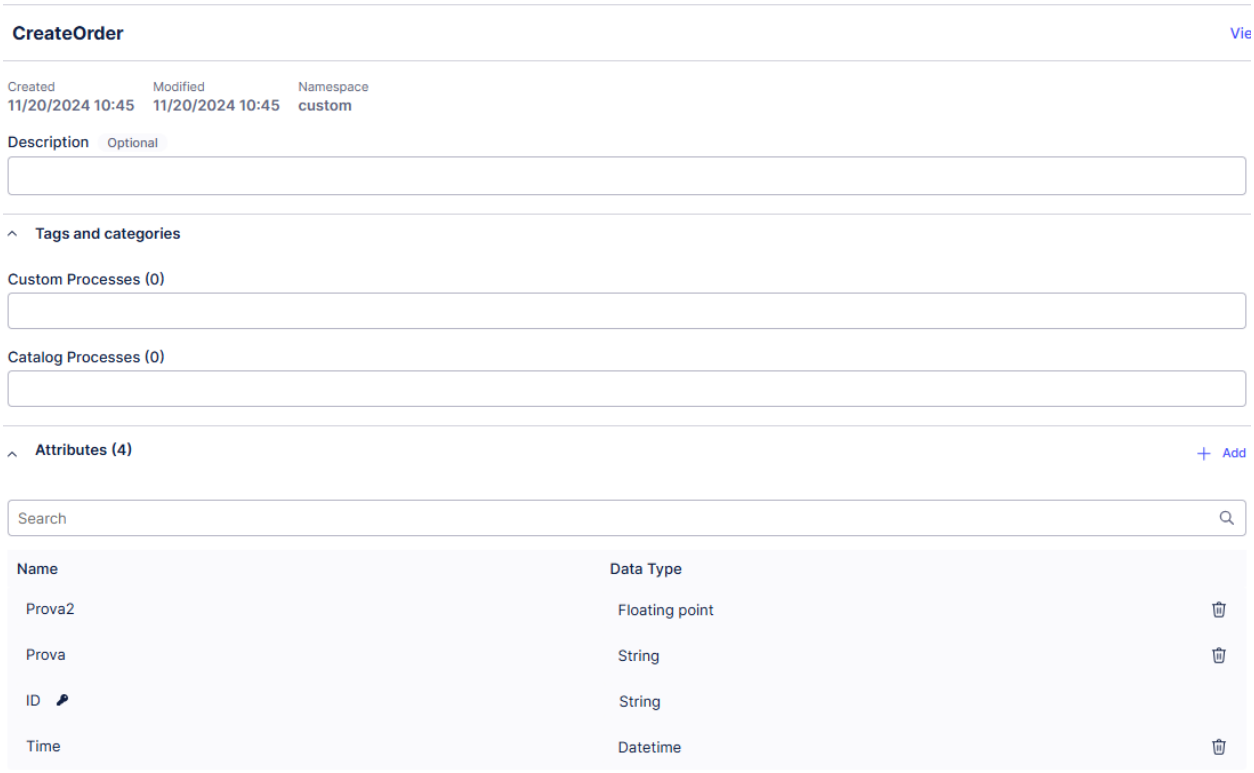
Then, come back to the “Object Types” page of the “Objects and Events” feature. Let’s proceed to add the other object type, “Element”.



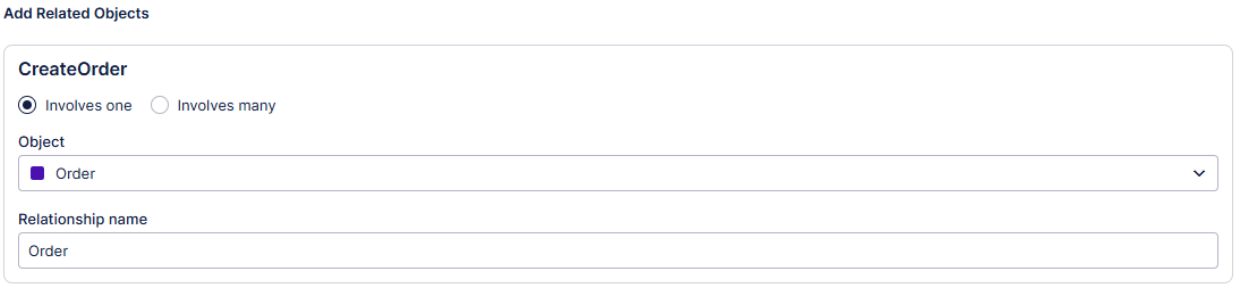
After creating the attributes, let’s add the transformation in a similar way to before.

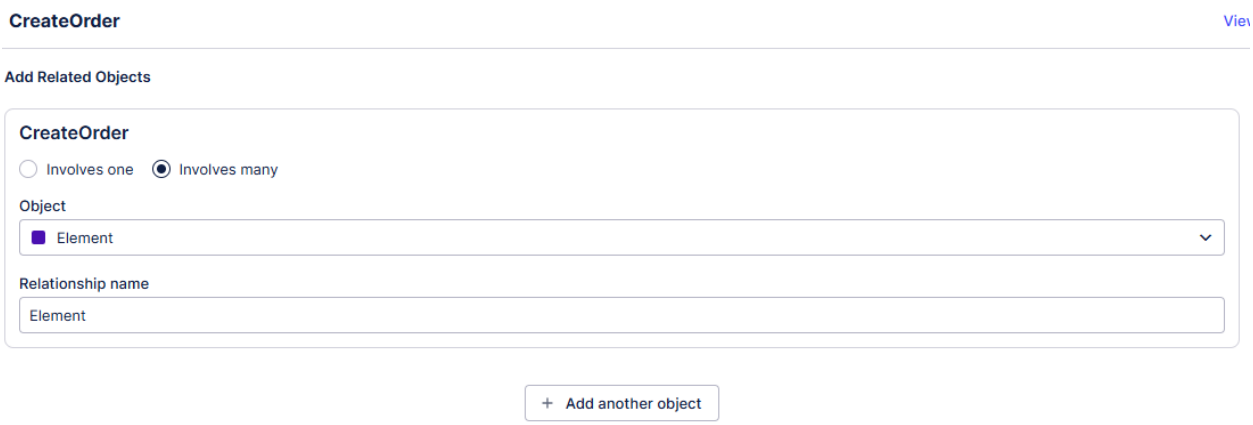


Now, reach the “Event Types” part. Let’s add the event named “CreateOrder”.



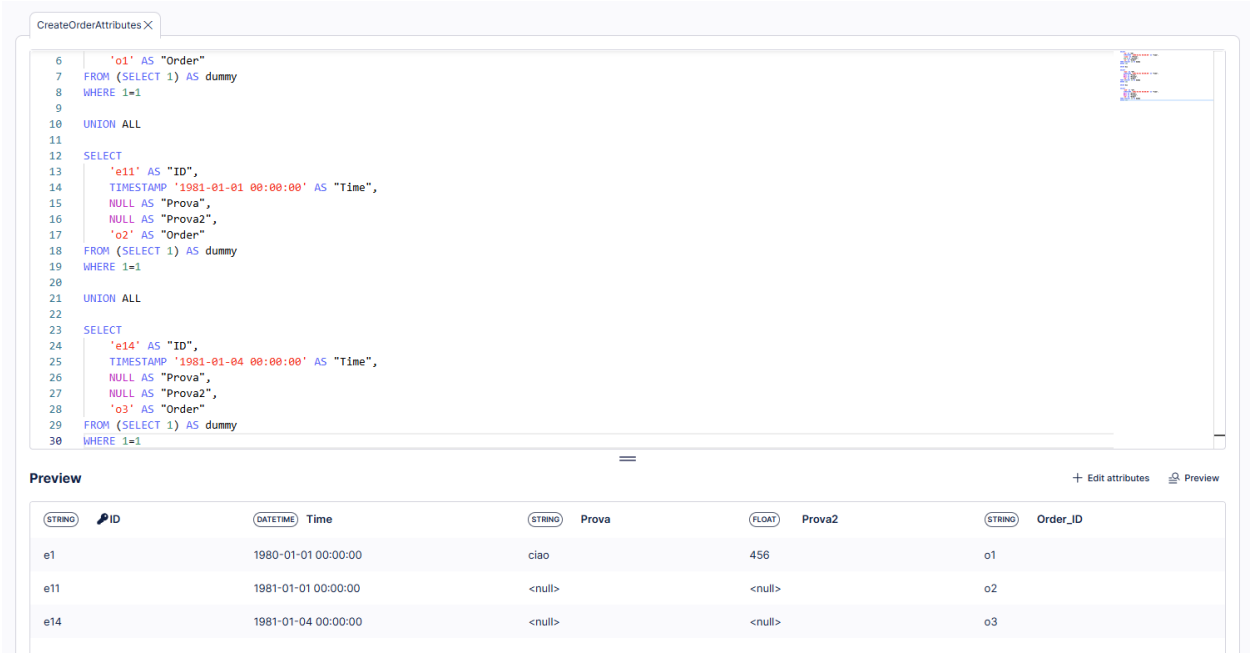
The next step is about adding the relationships to objects. Remind that this event type has 1:1 relation with Order, and 1:N relationship with Element. Use the “Relationships to objects” to add the two relationships.



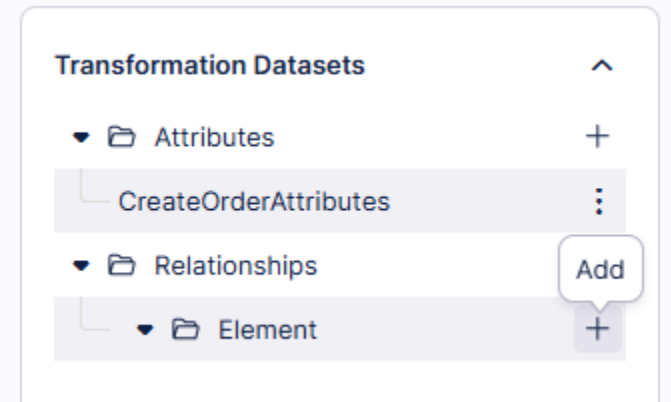


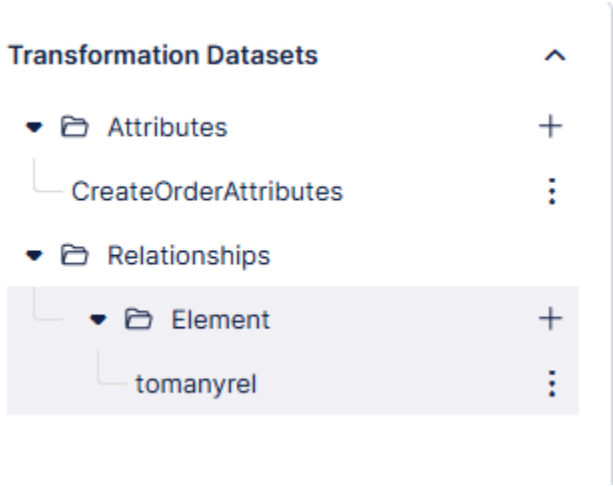
Then, reach the “Transformation” page and click “Add transformations”.

The first transformation that you need to add is the content of the event table, which also contains the “Order” as column (so, the 1:1 relationship is defined). Copy-paste the corresponding content of the SQL file, save and preview.

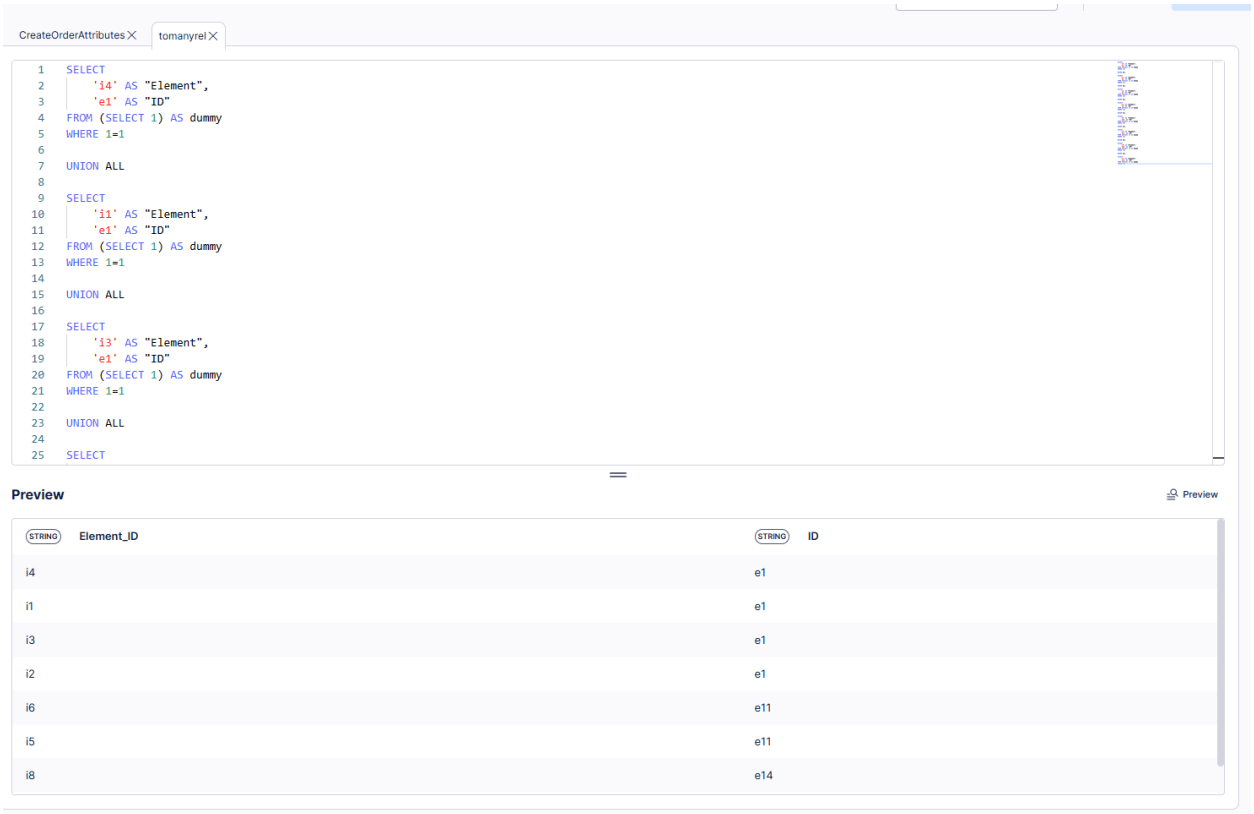


The second transformation that you need to add is the 1:N relationship with Element. For this click the add button near “Relationships – Element” on the top left part, and give a name to the relationship:

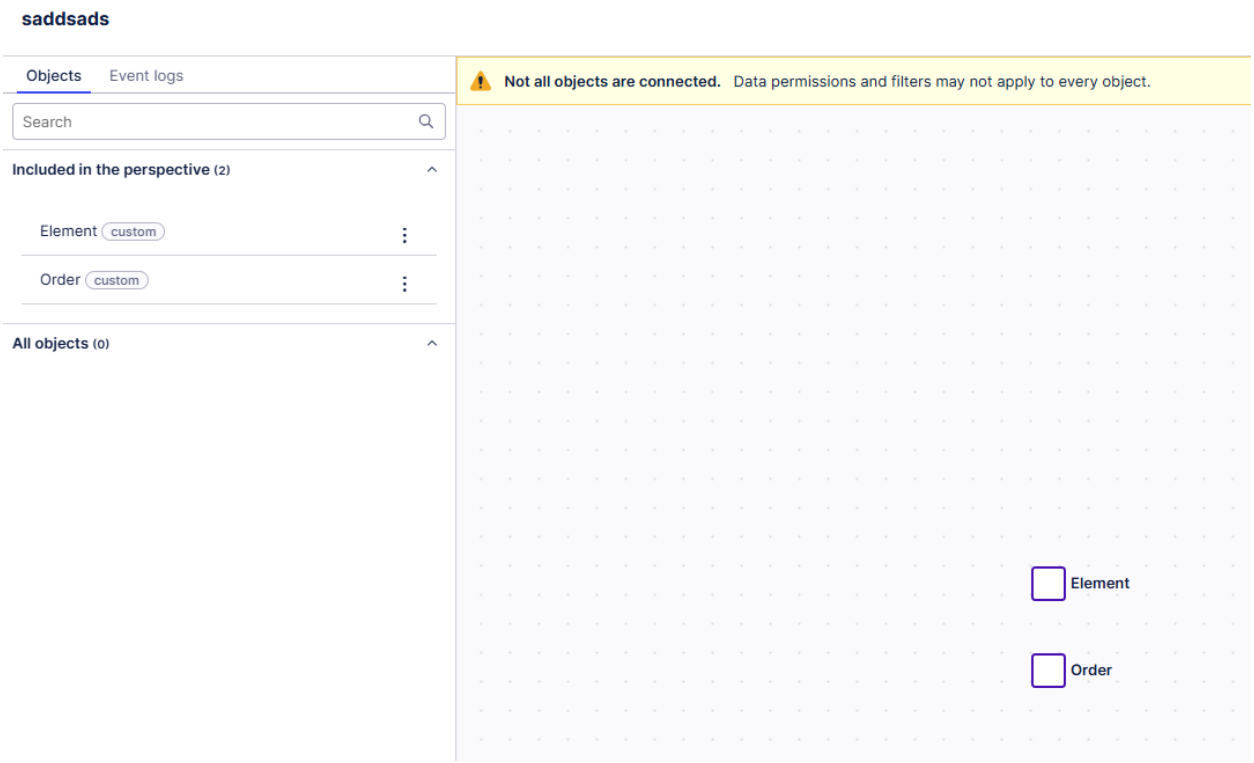




Then, copypaste the corresponding content of the “relationship” SQL file, save, and preview.

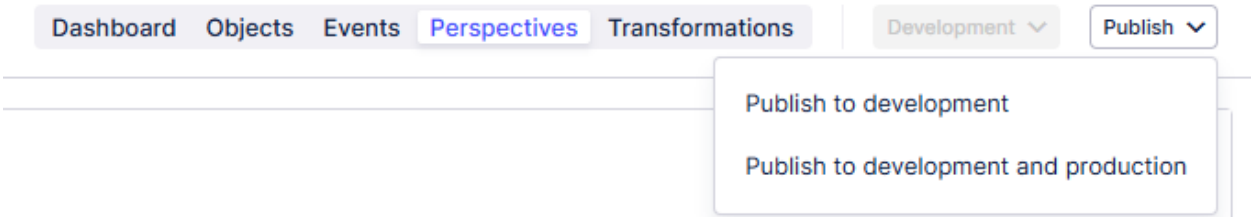


The data modeling part concludes with the creation of an analysis perspective. Reach the “Perspectives” section of the “Objects and Events” feature, click “Create Perspective”, and add the two object types.

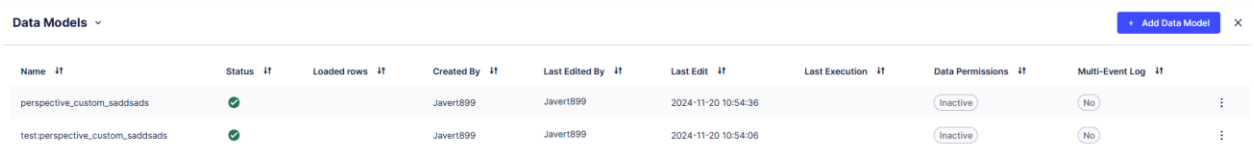


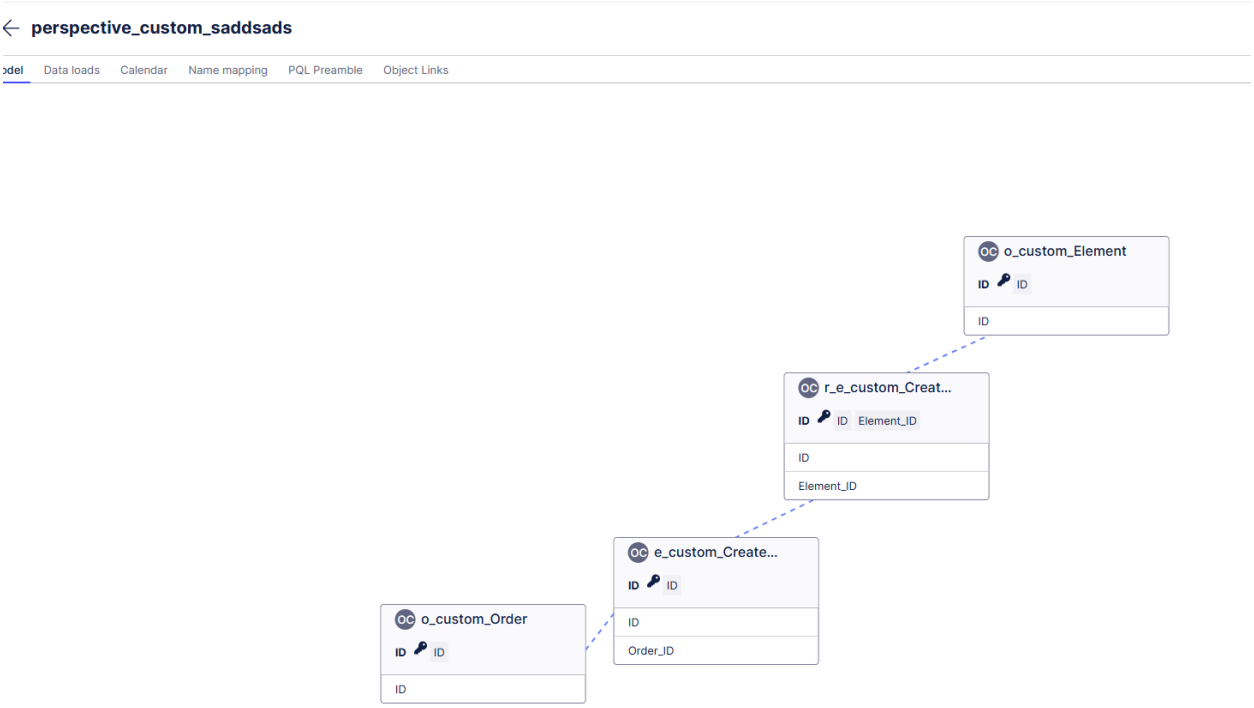
And then, click on “Save”.

Then, click “Publish” on the top right corner, and select “Publish to development and production”.



When the publishing is done, reach the “Data – Data Integration” component of Celonis, click on the data pool, reach the data models, and click on the data name starting with “perspective_”:





At this point, trigger the load of the data model. Then, the data model is ready for usage in the “Studio” component of Celonis.