# SOURCE/TARGET PQL Cheat Sheet

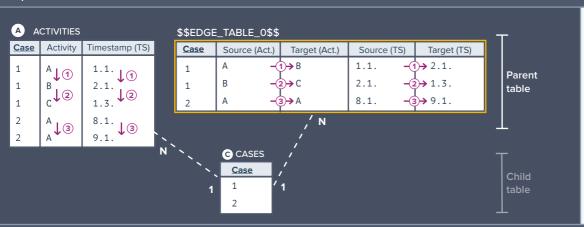
Functions available since Celonis 4.3

### **Syntax**

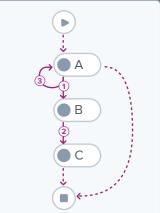
SOURCE("Activities"."Column", a filter\_column, b edge\_config)
TARGET("Activities"."Column", a filter\_column, b edge\_config)

Each **case** in the activity table can be seen as a graph (like in the Process Explorer). Each edge in the graph has a Source event and a Target event. With SOURCE and TARGET we can create and access a temporary EDGE\_TABLE, containing all the edges for each case.

#### Example Data Model



#### Process Explorer



## How to configure SOURCE/TARGET

SOURCE and TARGET provide two different configuration options:

Every row of the Activity table that is NULL in this column will be ignored when creating the edges. Usually, CASE WHEN or REMAP\_VALUES is used to set Activities to NULL.

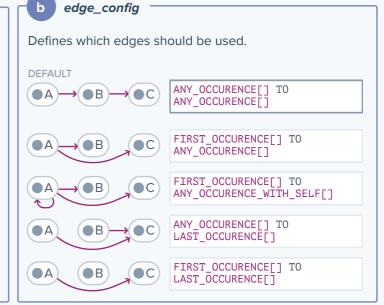
**Example:** Ignore Activity 'B' by setting 'B' to NULL:

SOURCE("Activities"."Activity",
REMAP\_VALUES("Activities"."Activity", ['B', NULL]))

Given the example activity table above, this configuration leads to:

#### \$\$EDGE\_TABLE\_0\$\$

<u>Case</u>	Source (Act.)	Target (Act.)	Source (TS)	Target (TS)
1	A	С	1.1.	1.3.
2	А	А	8.1.	9.1.



The configs (a) + (b) only need to be defined once per query as they are automatically propagated to all other SOURCE/ TARGET occurrences. Different configs generate different edge tables. The Edge tables are joined to the Case table. They can therefore not be combined with a "raw" column from the Activity table:

Error in formula - The tables Activities and \$\$EDGE\_TABLE\_0\$\$ do not have a common parent in the schema.

or with different edge tables inside the same query:

Error in formula - The tables \$\$EDGE\_TABLE\_0\$\$ and \$\$EDGE\_TABLE\_1\$\$ don't have a common parent in the schema.

- PQL-Library (Documentation) in Confluence and Celonis Help Page
- **3** community.celonis.com for support and exchange

