PU functions PQL Cheat Sheet

PU functions

available since Celonis 4

Syntax

```
PU_X("Child", "Parent"."Column", filter_condition)

PU_FIRST("Child", "Parent"."Column",
filter_condition, order by "Parent"."Column2")
```

```
PU_LAST("Child", "Parent"."Column",
filter_condition, order by "Parent"."Column2")
```

PU functions aggregate values from the Parent table to the Child table. PU functions don't respect FILTERs. Instead, a filter condition can be passed as a third argument. The result of the PU function is added to the Child table as a *temporary column* and can be used like a regular column (e.g. inside other PQL functions).

Example

PU_COUNT("Cases", "Activities"."Activity")

C CASES			leads to
Case	Country	#	~
1	DE	3	
2	US	2	

When to use PU functions?

a) In FILTERs.

Filter on Cases with > 3 Activities:

```
FILTER PU_COUNT("Cases",
"Activities"."Activity") > 3
```

b) In nested Aggregations.

Find the maximum number of Activities in a Case:

```
MAX(PU_COUNT("Cases", "Activities"."Activity"))
```

c) For Performance reasons.

PU aggregations are faster than standard aggregations.

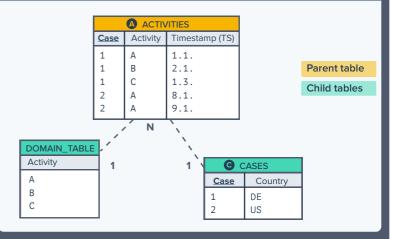
Important links

- PQL Function Library (Documentation) on the Celonis Help Page
- community.celonis.com for support and exchange



For feedback on content or design please contact d.becher@celonis.com

Example Data Model



DOMAIN_TABLE

available since Colonis 4 F

DOMAIN_TABLE generates a temporary table with all the distinct values from the specified column(s).

It is a **Child table** joined to the common parent of the specified column(s).

The **DOMAIN_TABLE** can only be used in the first argument of a PU function. Like in a regular table, the result of the PU function is added as a column to the DOMAIN TABLE

When to use DOMAIN_TABLE?

You want to use a PU function to aggregate columns of a Parent table for something which:

a) is not a table.

e.g. Count the number of Activities for each month:



b) is also in the parent table.

e.g. Count the number of occurrences of each Activity:



c) is distributed in multiple tables.

Count the number of occurrences of each Activity per country:



