Example of Filter Operator
SciCumulus/C²

This document is responsible to present an example, which we modeled a concrete workflow in SCC XML format to represent the behavior of Filter operator. For this modeled workflow, it is possible to execute SCC, if the requirements were corrected installed and some parameters on XML file were changed, accordingly to your machine. Also, this example is composed of two activities. Figure 1 presents the structure of this workflow.
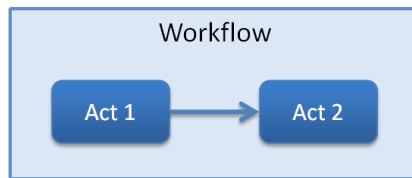

Figure 1. Default workflow structure for SCC example

1. Filter

This example presents a workflow with two activities. The first activity is ruled by *Filter* operator. Also, the second activity is ruled by *Map* operator. The *Filter* operator is characterized by consumption of each tuple in input relation that may be copied to the output relation, as long as an invoked program accept the current tuple under evaluation. It is important to mention the schema of input relation is exactly the same as the output relation. The Figure 2 shows the input and output relations using a *Filter* operator.

Input Relation

ID	T1	T2
0	1000	1001
1	2000	2001
2	3000	3001
3	2000	2002
4	3000	3002
5	1000	1002

Filter (T1 > 2500)

Output Relation

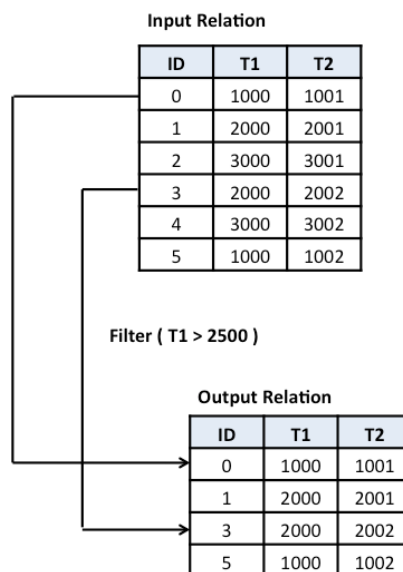| ID	T1	T2
0	1000	1001
1	2000	2001
3	2000	2002
5	1000	1002

Figure 2. The input and output relations using *Filter* operator