

# Example of MR Query Operator SciCumulus/C<sup>2</sup>

## 1. MULTIPLE RELATION QUERY (MR QUERY) ..... 1

This document is responsible to present an example, which we modeled a concrete workflow in SCC XML format to represent the behavior of MR Query 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.

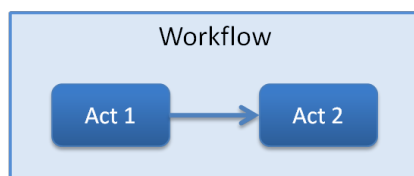


Figure 1. Default workflow structure for SCC example

### 1. Multiple Relation Query (MR Query)

This example presents a workflow with two activities. The first activity is ruled by *MR Query* operator. Also, the second activity is ruled by *Map* operator. The *MR Query* operator consumes an input relation through a relational algebra expression to produce an output relation. This operator is useful for data transformation or data filtering. It is important to mention if the schema from the input relation is exactly the same of the output relation, then the *MR Query* operator is assumed to have also the semantics of a *Filter*. Finally, the Figure 2 shows the input and output relations using a *MR Query* operator.

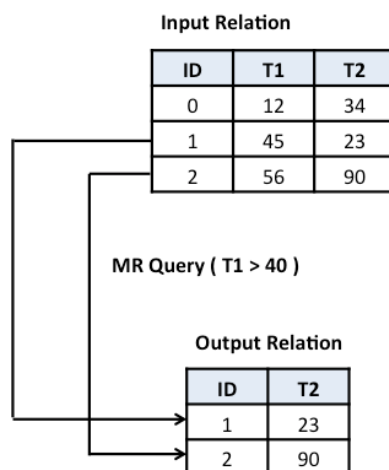


Figure 2. The input and output relations using *MR Query* operator