



## Purpose

Purpose of the section is to introduce calculation within collections.

## Description

1. Adding a rule which compares the value of NbOfTx to the amount of Tx occurrences within file
2. Testing

## Instructions

### 1: Adding a rule which compares the value of NbOfTx to the amount of Tx occurrences within file

When we are comparing a value of an element to a number of occurrences of another element, we first have to find a shared context for both of these elements and keep in mind that we most likely are comparing a string value to an integer value, depending on the type defined in the schema.

In this rule, we can start by making a rule from scratch. We should select NumberOfTransactions from the tree, but this time choosing plus icon instead of a dropdown. Following empty modal should now be visible.

**New rule**  
(Antero's ruleset)

Details

**MIG details:** >

**Rule basic details:** v

Active

Name\*

Internal note

Wiki

Rule location XPath

**Validation definition:** v

Severity\*

Context\*

Definition\* 

1
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Validation message\*

Message location 

1
---

We now have to fill every mandatory text box manually.

First common type of the relevant elements has to be "Message", and OCL code will be as follows:

```
self.Header.NumberOfTransactions = self.Transaction->size()
```

->size() will return an integer of the amount of Transaction elements.

## 2: Testing

Testing should include both valid and invalid amounts.