SAP BusinessObjects Information Steward

Create validation rules

To navigate the tutorial, follow the onscreen instructions or use the controls at the bottom of the screen.
In this tutorial, you will create a validation rule to determine the quality of the data in the source system. When the rule task is executed, Information Steward will compare the source data against the rule and determine whether the source data passed the rule. Validation rules are the foundation upon which you will build an Information Steward scorecard.
The rule you will create is Customer Region Exists, which will be used to ensure that the region values are populated.

Click Rules.
Click New.
Click in the Name text box.
Type **Customer Region Exists** and press ENTER.
Each rule is associated with a quality dimension. Later on, you will use the quality dimensions in the Set up scorecard tutorial. Choose the quality dimension that best describes the condition the rule is testing.

**Accuracy** - The extent to which data objects correctly represent the “real-world” values for which they were designed.

**Completeness** - The extent to which data is not missing.

**Conformity** - The extent to which data conforms to specified format.

**Consistency** - The extent to which distinct data instances provide non-conflicting information about the same underlying data object.

**Integrity** - The extent to which data is not missing important relationship linkages.

**Timeliness** - The extent to which data is sufficiently up-to-date for the task at hand.

**Uniqueness** - The extent of uniqueness in naming and representation of core data objects.

Click the Quality Dimension list.
Click in the **Description** text box.
For this tutorial the description has been entered for you.

Next, add a parameter. Parameters help make rules reusable against different data sources.
Type $region and press ENTER.
Rule Editor

Name: Customer Region Exists
Quality Dimension: Completeness

Description: The rule verifies that the customer's address includes a region

Parameters:

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$region</td>
<td>varchar</td>
<td>✔️</td>
<td></td>
</tr>
</tbody>
</table>

Add parameter

Expression:

Click in the Description text box.
For this tutorial the description has been entered for you.

Next, add an expression.
The editor has a selection of commonly used built-in functions from which to choose. Examine the function list.

Click the Function list.
For this rule, you will use the default function *Is not null*.

Description: The rule verifies that the customer's address includes a region.

Parameters:
- **Name**: $region
  - **Type**: varchar
  - **Score**: Not applicable
  - **Description**: Inbound Parameter for the address: region

Expression:
- **Definition**
  - **Parameter**: $region
  - **Function**: Is not null
  - **Value**: N/A

BEGIN RETURN
  $region IS NOT NULL;
END
Click Validate.

The rule expression is automatically generated for you. Accept the default value for the expression, and then validate the rule.

BEGIN
RETURN
$region IS NOT NULL;
END
Validation was successful.

You need to save the rule before you can test it.

Click Save.
Click Test.
The rule verifies that the customer's address includes a region.

Expression:

BEGIN RETURN
$region IS NOT NULL;
END
Click the Add Test Value list.
The rule verifies that the customer's address includes a region.

BEGIN RETURN
$region IS NOT NULL;
END

Select <NULL>.
Add CA (California) as a second value to test.
The rule verifies that the customer's address includes a region.

Parameters:
- Name
- $region
- Add parameter

Expression:
- Definition
  - $region
  - Add Expression

BEGIN RETURN
$region IS NOT NULL;
END

Click to add test value.

Type CA and press ENTER.
The rule verifies that the customer's address includes a region.

Parameters:
- Name: $region
- Add parameter: CA

Expression:
BEGIN RETURN
$region IS NOT NULL;
END
The value of NULL failed the validation test as expected.

Click Close.
Click Save and Close.
Rules you create are visible in the Rules tab with a status of Editing.
By default all rules that you create are local to the project. You can submit the rule for approval.

Once approved, the status will change to Approved and the rule will be accessible to all projects.
You have successfully used the Information Steward Rules Editor to define a validation rule related to customer region.

End of tutorial