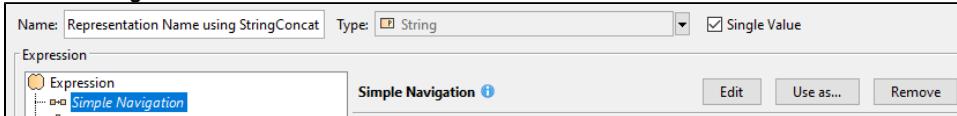


Case 8. Showing Parameter Direction and Type in Single Table Cell using StringConcat

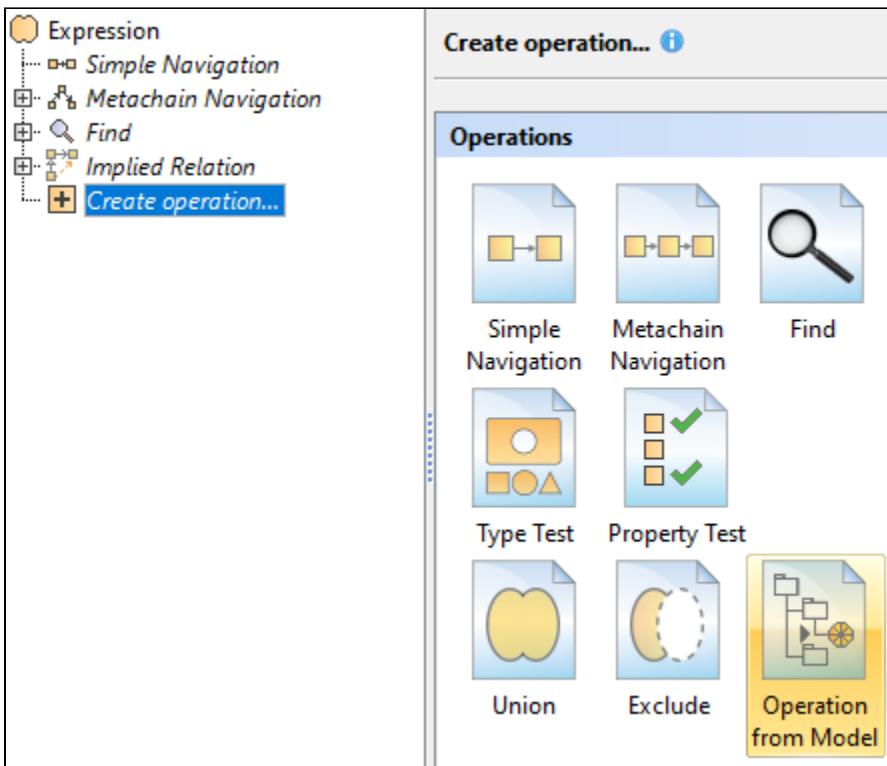
To display Parameter Direction and Parameter Type in a single table cell

1. Create a **Generic Table**.
2. Set the **Element Type** to **Parameter** and **Activity**.
3. Set the **Scope** to the Activity element which contains the Parameters.
4. Click the **Columns** button and select **New Custom Column**. **Expression** dialog opens.
5. Set the **Type** as **String**.
6. Select the **Single Value** check box.

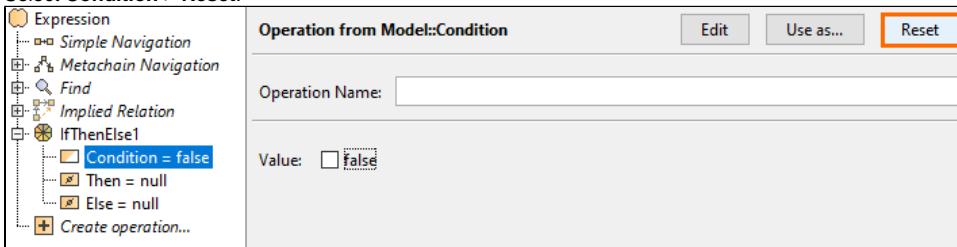


7. Select **Create operation > Operation from Model > IfThenElse**.

If you cannot see the **IfThenElse** operation, make sure the **Apply Filter** box is not checked.



8. Select **Condition > Reset**.



9. Select Condition > Type Test.

The screenshot shows the 'Operation from Model:Condition' dialog. On the left is a tree view of operations: Expression, Simple Navigation, Metachain Navigation, Find, Implied Relation, IfThenElse1, and Create operation... The 'IfThenElse1' node has three children: Condition = null, Then = null, and Else = null. The 'Type Test' icon under 'IfThenElse1' is highlighted with a blue selection bar. On the right, the 'Operations' tab is selected, displaying icons for Simple Navigation, Metachain Navigation, Type Test (highlighted), and Property Test.

10. Select Condition and set the Type to Parameter.

The screenshot shows the 'Operation from Model:Condition' dialog with the 'Condition' tab selected. The 'Operation Name' field contains 'TypeTest1'. The 'Type' field is set to 'Parameter' with a dropdown arrow. The 'Include Subtypes' and 'Include Custom Types' checkboxes are checked.

11. Select Then > Operation from Model > StringConcat.

The screenshot shows the 'Operation from Model:Then' dialog. On the left is a tree view of operations: Expression, Simple Navigation, Metachain Navigation, Find, Implied Relation, IfThenElse1, and Create operation... The 'IfThenElse1' node has three children: Condition = TypeTest1, Then = null, and Else = null. The 'Type Test' icon under 'IfThenElse1' is highlighted with a blue selection bar. On the right, the 'Operations' tab is selected, displaying icons for Simple Navigation, Metachain Navigation, Find, Type Test (highlighted), Property Test, Union, Exclude, and Operation from Model (highlighted).

12. Select A > Reset.

13. Select A > Script.

The screenshot shows the 'Expression' browser on the left with the following tree structure:

- Expression
 - Simple Navigation
 - Metachain Navigation
 - Find
 - Implied Relation
 - IfThenElse1
 - Condition = TypeTest1
 - Then = StringConcat1
 - A = null
 - B = ""
 - Else = null
 - Create operation...

To the right is the 'Operation from Model:A' dialog with the 'Operations' section showing icons for Simple Navigation, Metachain Navigation, Union, Exclude, Operation from Model, and Script. The 'Script' icon is highlighted.

14. Select A > arg1 > Remove.

The screenshot shows the 'Expression' browser on the left with the same tree structure as the previous screenshot, but with a different selection. The 'Arg1' parameter under the 'StringConcat1' node is selected. To the right is the 'Script:arg1' dialog with fields for Operation Name (empty), Parameter Name (arg1), and Value (THIS). The 'Remove' button is highlighted.

15. Select A > Create parameter > Metachain Navigation.

The screenshot shows the 'Expression' browser on the left with the same tree structure. The 'Create parameter...' button under the 'A = Script1' node is highlighted. To the right is the 'Create parameter...' dialog with the 'Operations' section showing icons for Simple Navigation and Metachain Navigation. The 'Metachain Navigation' icon is highlighted.

16. Set the Parameter Name to direction.

17. Click Insert.

18. Under Metaclass or Stereotype, select Parameter, and under Property, select Direction.

The screenshot shows the 'Expression' browser on the left with the same tree structure. The 'direction' parameter under the 'A = Script1' node is selected. To the right is the 'Script:direction' dialog with fields for Operation Name (Metachain Navigation1) and Parameter Name (direction). Below these is a table:

Metaclass or Stereotype	Property
Parameter	Direction

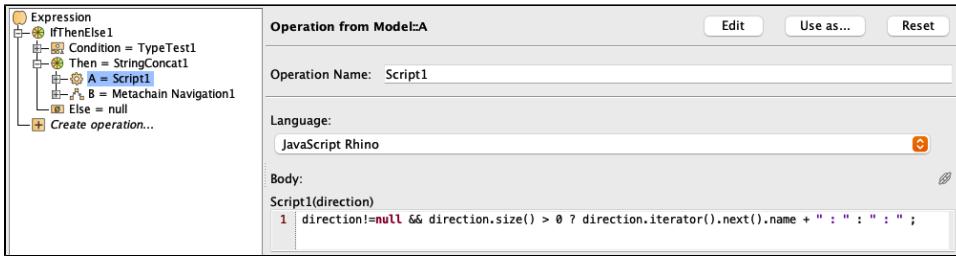
The 'Parameter' row is selected in the table. The 'Insert' button is visible at the bottom right of the dialog.

19. Select A > Script. From the Language drop-down list, select Javascript Rhino.

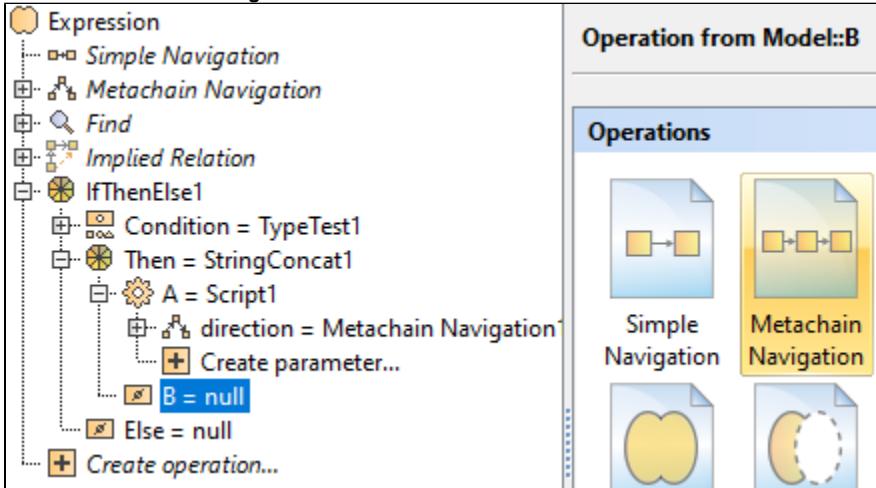
20. Insert the following script as the Body:

Javascript Rhino

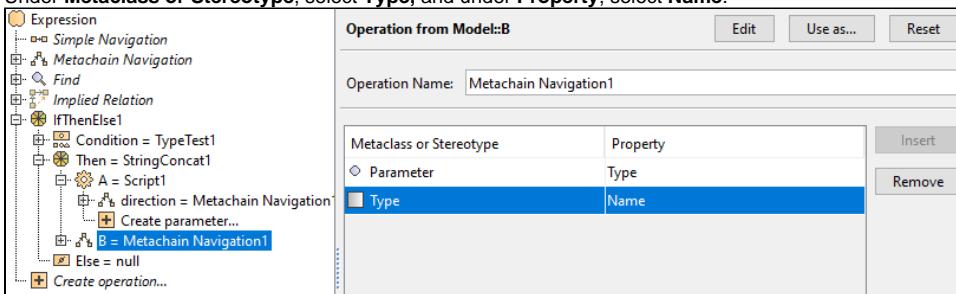
```
direction != null && direction.size() > 0 ? direction.iterator().next().name + " : " : " : " ;
```



21. Select B > Reset.
22. Select B > Metachain Navigation.



23. Click Insert.
24. Under Metaclass or Stereotype, select Parameter, and under Property, select Type.
25. Click Insert again.
26. Under Metaclass or Stereotype, select Type, and under Property, select Name.



27. Click OK.

Sample model

The model used in these examples is the *Case Studies for Querying the Model* sample model. To open this model, you need to download [case studies for querying the model.mdzip](#).