
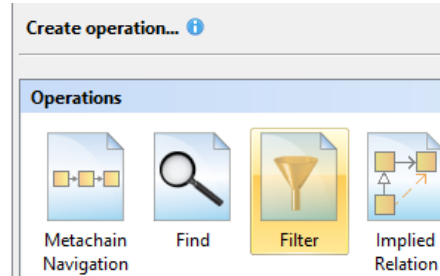
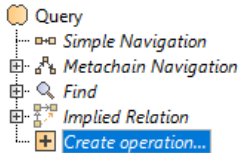


Case 6. Requirements Without Text

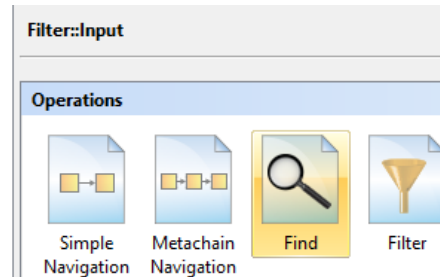
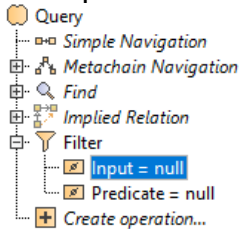
To find Requirements without text

1. Create a **Smart Package**.
2. Open its **Specification window** and click three dots  next to the **Query** property to edit it. The **Query** dialog opens.
3. Click **Create operation > Filter**.

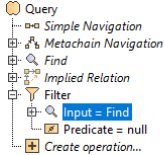
 If you cannot see the **Filter** operation under **Operations**, make sure the **Expert** mode is enabled.




4. Select **Input > Find**.

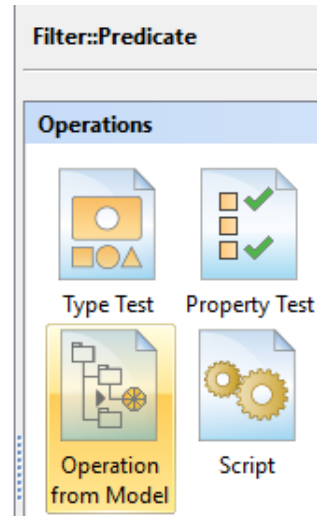
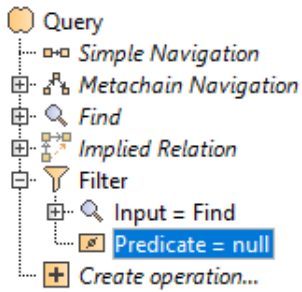


5. Select **Find** and set the **Type** to **Requirement**.

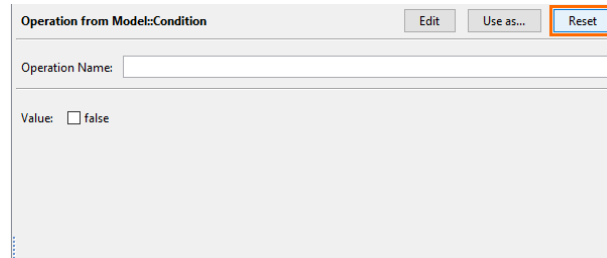
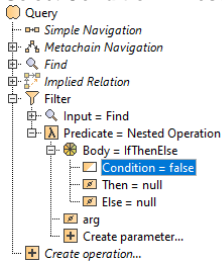


6. Select **Predicate > Operation from Model > IfThenElse**.

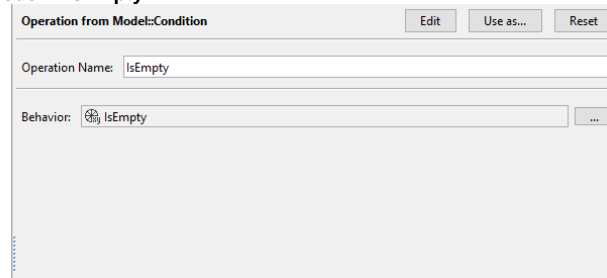
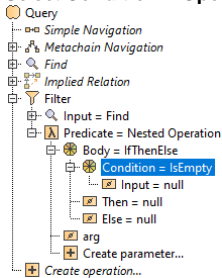
 If you cannot see the **IfThenElse** operation, make sure the **Apply Filter** box is not checked.



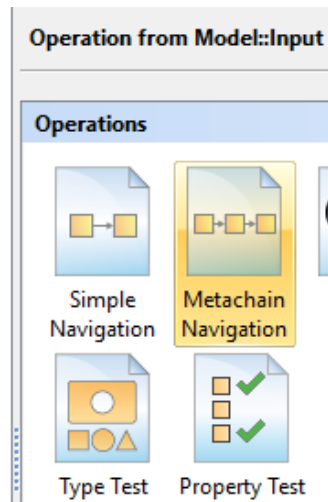
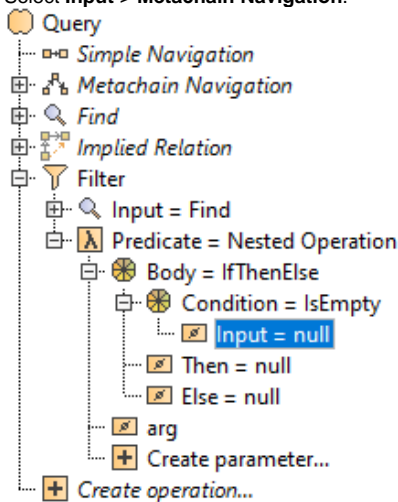
7. Select **Condition** > **Reset**.



8. Select **Condition** > **Operation from Model** > **isEmpty**.



9. Select **Input** > **Metachain Navigation**.



10. Click **Insert**.

11. Under **Metaclass or Stereotype**, select **Requirement**, and under **Property**, select **Text**.

Query

Simple Navigation

Metachain Navigation

Find

Implied Relation

Filter

Input = Find

Predicate = Nested Operation

Body = IfThenElse

Condition = IsEmpty

Input = Metachain Navigation

Then = null

Else = null

arg

Create parameter...

Create operation...

Operation from Model:Input

Edit

Use as...

Reset

Operation Name: Metachain Navigation

Metaclass or Stereotype	Property
Requirement [Class]	Text (AbstractRequirement)

Insert

Remove

12. Select **Then > Boolean**. Set the **Value** to **true**.

Query

Simple Navigation

Metachain Navigation

Find

Implied Relation

Filter

Input = Find

Predicate = Nested Operation

Body = IfThenElse

Condition = IsEmpty

Input = Metachain Navigation

Then = true

Else = null

arg

Create parameter...

Create operation...

Operation from Model:Then

Edit

Use as...

Reset

Operation Name: Boolean

Value: ☒ true

13. Select **Else > Script**.

Query

Simple Navigation

Metachain Navigation

Find

Implied Relation

Filter

Input = Find

Predicate = Nested Operation

Body = IfThenElse

Condition = IsEmpty

Input = Metachain Navigation

Then = true

Else = null

arg

Create parameter...

Create operation...

Operation from Model:Else

Operations

Simple Navigation

Metachain Navigation

Find

Filter

Type Test

Property Test

Union

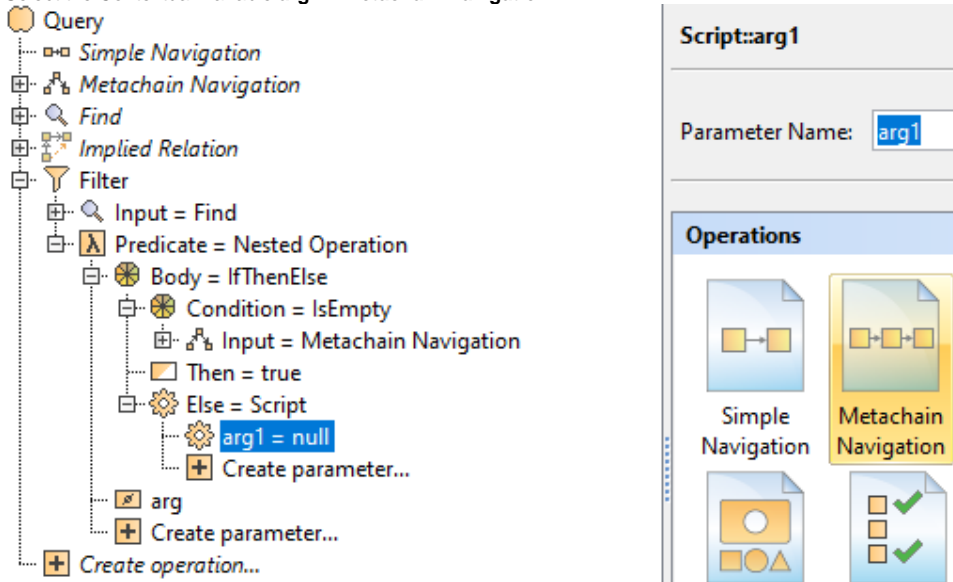
Exclude

Operation from Model

Script

14. Select the Contextual Variable **arg1** > **Reset**.

15. Select the Contextual Variable **arg1** > **Metachain Navigation**.

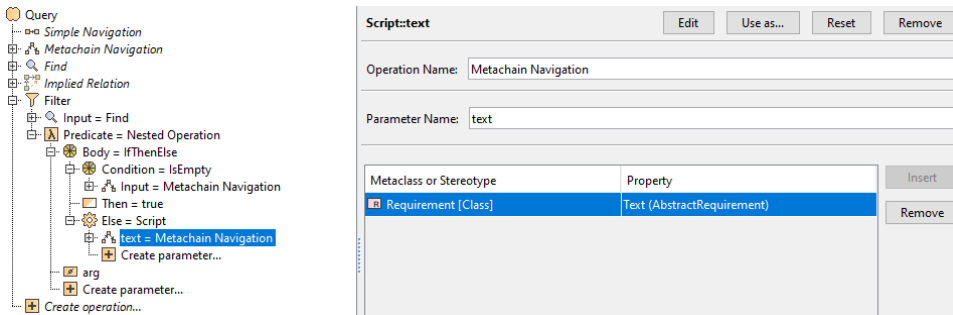


The screenshot shows the 'Script::arg1' configuration window. The 'Parameter Name' is set to 'arg1'. Under the 'Operations' section, 'Simple Navigation' and 'Metachain Navigation' are listed. The 'Metachain Navigation' operation is selected, and its configuration is shown in the right pane.

16. Set **Parameter Name** to "text".

17. Click **Insert**.

18. Under **Metaclass or Stereotype**, select **Requirement**, and under **Property**, select **Text**.



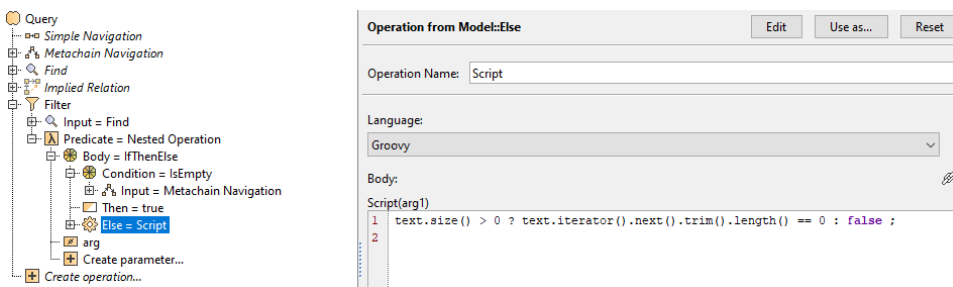
The screenshot shows the 'Script::text' configuration window. The 'Operation Name' is 'Metachain Navigation' and the 'Parameter Name' is 'text'. The 'Metaclass or Stereotype' is 'Requirement [Class]' and the 'Property' is 'Text (AbstractRequirement)'. The 'Insert' button is visible.

19. From the **Language** drop-down list, select **Groovy**.

20. Insert the following script as the **Body**:

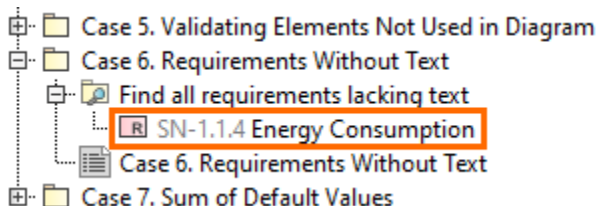
Groovy

```
text.size() > 0 ? text.iterator().next().trim().length() == 0 : false ;
```



The screenshot shows the 'Operation from Model:Else' configuration window. The 'Operation Name' is 'Script' and the 'Language' is 'Groovy'. The 'Body' contains the Groovy script: 'text.size() > 0 ? text.iterator().next().trim().length() == 0 : false ;'.

21. Click **OK**. You can view the requirements without text nested under the **Smart Package** in the Containment tree.



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](#).