

Suppression Examples

In the use case that a query must be executed with an open-ended SQL clause to obtain the correct values, Aras Innovator provides the option to explicitly suppress the Item Analysis for such queries.

To generate a Suppression, an Administrator must create an `ItemAnalysisSuppressions.*.xml` file in the `\Innovator\Server\App_Data` folder, such as

`\Innovator\Server\App_Data\ItemAnalysisSuppressions.MyCustom.xml`. There can be multiple `ItemAnalysisSuppressions.*.xml` files, each with their own unique set of Suppressions.

The format of the `ItemAnalysisSuppressions.*.xml` file is as follows:

```
<itemAnalysis>
<suppressions>
<!-- Suppression Parameters -->
</suppressions>
</itemAnalysis>
```

The Suppressions support `@Parameter` and `@ParametersList` as variables, which correspond with a SQL Constant and a SQL Constants List, respectively.

Examples of Suppression declarations are listed in the following sections.

Attribute Examples

Where Attribute Suppression Example

For each Where Attribute that needs to be suppressed, you must add a `<whereAttribute>` node.

The following is an example of a `<whereAttribute>` node in the `ItemAnalysisSuppressions` file:

```
<whereAttribute>
<template><![CDATA[[Part].id IN (SELECT id FROM [PART] WHERE cost = @Parameter)]]></template>
</whereAttribute>
```

With this node, the following AML sent from a client will successfully pass the validation:



```
<AML>
<Item action="get" type="Part" where="[Part].id IN (SELECT id FROM [PART] WHERE cost = 5)"/>
</AML>
```

Condition In Attribute Suppression Example

For each Condition In Attribute that needs to be suppressed, you must add a `<conditionInProperty>` node.

The following is an example of a `<conditionInProperty>` node in the ItemAnalysisSuppressions file:

```
<conditionInProperty>
<template><![CDATA[(SELECT cost FROM [innovator].[PART] WHERE [item_number] IN (@ParametersList))]]></tem
</conditionInProperty>
```

With this node, the following AML sent from a client will successfully pass the validation:

```
<Item action="get" type="Part">
<cost condition="in">(SELECT cost FROM [innovator].[PART] WHERE [item_number] IN ('A', 'C', 'D'))</cost>
</Item>
```

Condition Between Attribute Suppression

For each Condition Between Attribute that needs to be suppressed, you must add a `<conditionBetweenProperty>` node.

The following is an example of a `<conditionBetweenProperty>` node in the ItemAnalysisSuppressions file:

```
<conditionBetweenProperty>
<template><![CDATA[(SELECT cost FROM [innovator].[PART] WHERE [item_number] = @Parameter) and (SELECT cos
</conditionBetweenProperty>
```

With this node, the following AML sent from a client will successfully pass the validation:

```
<Item action="get" type="Part">
<cost condition="between">(SELECT cost FROM [innovator].[PART] WHERE [item_number] = 'B') and (SELECT cos
</Item>
```



Specificity of Suppressions and Multiple Suppressions

As many Suppressions as required can be added to a single ItemAnalysis.Suppressions file. To add additional Suppressions, a second node of the required values must be added. An example of multiple Suppressions in a single file is included below:

```
<itemAnalysis>
<suppressions>
<whereAttribute>
<template><![CDATA[[Part].id IN (SELECT id FROM [PART] WHERE description = @Parameter)]]></template>
</whereAttribute>
<whereAttribute>
<template><![CDATA[[Part].id IN (SELECT id FROM [PART] WHERE cost > @Parameter)]]></template>
</whereAttribute>
<conditionInProperty>
<template><![CDATA[(SELECT cost FROM [innovator].[PART] WHERE [item_number] IN (@ParametersList))]]></tem
</conditionInProperty>
...
</suppressions>
</itemAnalysis>
```

As demonstrated, however, the Suppressions that are defined in the ItemAnalysis.Suppressions file are explicit in their interpretation. If an AML sent from a client does not pass the ItemAnalysis or match the Suppression precisely, the AML will be rejected.

Important

Suppressions are also case-sensitive.

As an example, given the original `<whereAttribute>` Suppression node:

```
<whereAttribute>
<template><![CDATA[[Part].id IN (SELECT id FROM [PART] WHERE cost = @Parameter)]]></template>
</whereAttribute>
```

The following query will succeed:

```
<AML>
<Item action="get" type="Part" where="[Part].id IN (SELECT id FROM [PART] WHERE cost = 5)"/>
</AML>
```

While the following query will throw an Item Analysis Error:



```
<AML>  
<Item action="get" type="Part" where="[Part].id IN (SELECT id FROM [PART] WHERE cost > 5)"/>  
</AML>
```

In order for the second query to succeed, an additional `<whereAttribute>` node must be added to an ItemAnalysis.Suppressions file.

