SQL Schema Compare Entity Filters customization

An entity filter is a new feature introduced in the version 4 of the command line that replaces the schema filters supported by the previous versions. It allows you to include or exclude database objects based on some predefined criteria.

Schema filters supported by the previous versions of the command line are depreciated and will be removed in a future release.

An entity filter is composed by groups combined with an operator: AND/OR. Each group contains conditions, which act as the filter criteria. When the filter is applied, the conditions are evaluated against the name or the schema of a database object. If the object meets the condition criteria, it is included in the comparison, otherwise it is excluded.

The following xml fragment defines a filter that selects views the name of which starts with the prefix v emp:

```
<EntityFilters>
     <filter entitytype="View">
          <condition>
               <conditiontype>StartingWith</conditiontype>
               <expression>v_emp</expression>
          </condition>
     </filter>
</EntityFilters>
```

The following xml fragment defines a filter that contains two conditions. It selects tables the name of which does not start with "#" and "##":

```
<entityfilters>
     <filter entitytype="Table">
          <group conditionoperator="And">
               <condition>
                    <conditiontype>NotStartingWith</conditiontype>
                    <expression>#</expression>
               </condition>
               <condition>
                    <conditiontype>NotStartingWith</conditiontype>
                    <expression>##</expression>
               </condition>
          </group>
     </filter>
</entityfilters>
```

The command line provides samples for the most common entity filter scenarios. You will find them in the command line sample folder under \Program Files\Idera\SQL comparison toolset\Command Line Samples\Schema Compare\EntityFilters.

The structure of the entity filters supported by the command line xml config file is as follows:

xml Element /Attribute	Description	Usage		
EntityFilters	The starting element of the entity filters.			
ExclusionRule: ExcludeAlways ExcludeIfPossi ble	Determines the rule that should be used to exclude objects that don't meet the filter criteria with respect to dependencies: • ExcludeAlways indicates that objects should be excluded regardless of dependencies. • ExcludeIfPossible indicates that objects should be excluded, but database dependencies might include them if needed.	Optional. Default value is <i>ExcludeAlway</i> s.		
Filter	Starts a filter element. Multiple filters are supported, each for a specific object type.			
EntityType	Indicates the type of the database objects associated with the filter. Nearly all database are supported, except for the following: • Filegroups • Full-Text Indexes • Permissions • Extended Properties	Required.		
GroupOperator : And Or	Determines the operator that combines the groups that participate in the filter.	Optional. Default value is <i>And</i> .		

Group	Starts a filter group. Multiple groups can be included in a single filter.	Optional when the filter contains only one condition, otherwise required.	
ConditionOper ator: <i>And</i> <i>Or</i>	Determines the operator that combines filter conditions associated with a group.	Optional. Default value is <i>Or</i> .	
IncludeMatche s: true false	Indicates whether the database objects that meet the group criteria should be included in the comparison.	Optional. Default value is <i>true</i> .	
Condition	Starts a filter condition.	Required.	
CaseSensitive: true false	Indicates whether the condition should honor the character case.	Optional. Default value is <i>false</i> .	
NameConditio n: true false	Determines whether the filter condition should be evaluated against the name of a database object. If false, the condition is checked against the schema.	Optional. Default value is <i>true</i> .	
ConditionType	One of the following condition types: StartingWith NotStartingWith EndingWith NotEndingWith Containing NotContaining EqualsTo DifferentFrom RegExMatching RegExNotMatching	Required.	
Expression	A text expression that defines the condition criteria.	Required.	

The following xml fragment is a more complete example that defines three entity filters:

- The first filter creates two conditions that select database views starting with v_emp or v_cust. Both conditions are case-sensitive.
- The second filter selects stored procedures that belong to HumanResource or Personal schema. In addition to schema, the procedure name should contain at least one digit.
- The third filter selects functions that do not end with _temp and _tmp

```
<entityfilters exclusionrule="ExcludeAlways">
     <filter entitytype="View">
          <group conditionoperator="Or">
               <condition casesensitive="true">
                    <conditiontype>StartingWith</conditiontype>
                    <expression>v_emp</expression>
               </condition>
               <condition casesensitive="true">
                    <conditiontype>StartingWith</conditiontype>
                    <expression>v_cust</expression>
               </condition>
          </group>
     </filter>
     <filter entitytype="StoredProcedure" groupoperator="And">
          <group conditionoperator="Or">
               <condition namecondition="false">
                    <conditiontype>EqualsTo</conditiontype>
                    <expression>HumanResource</expression>
               </condition>
               <condition namecondition="false">
                    <conditiontype>EqualsTo</conditiontype>
                    <expression>Personal</expression>
               </condition>
          </group>
          <group>
               <condition namecondition="true">
                    <conditiontype>RegExMatching</conditiontype>
                    <expression>\d+</expression>
               </condition>
          </group>
     </filter>
     <filter entitytype="UserDefinedFunction">
          <group conditionoperator="And">
               <condition>
                    <conditiontype>NotEndingWith</conditiontype>
                    <expression>_temp</expression>
               </condition>
               <condition>
                    <conditiontype>NotEndingWith</conditiontype>
                    <expression>_tmp</expression>
               </condition>
          </group>
     </filter>
</entityfilters>
```

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