SDK 4.3 Extended Query Processor

Includes:

* Sort Limit Extension

Instructions

1. Copy the “caGrid-SDK43SortLimitQueryProcessor-1.4.jar” into the “<grid\_service\_root>/lib” directory of your service.
2. Copy the “extended-sdk-system-client-4.3.jar” & “extended-sdk-system-core-4.3.jar” files into the same “<grid\_service\_root>/lib” directory.
3. **REMOVE** the previous SDK jars “sdk-system-client-4.3.jar” & “sdk-system-core-4.3.jar” from the “<grid\_service\_root>/lib” directory.
4. Copy the extension schema “<SDK4.3\_project\_root>/schemas/CQLQueryModiferExtension.xsd” into your Grid Service schema directory: “<grid\_service\_root>/schema/<grid\_service\_name>”.
5. Edit the line “cql2QueryProcessorClass” in your Grid Service “service.properties” file. Update the file to read: cql2QueryProcessorClass=org.cagrid.sdkquery43.extension.processor.CustomQueryProcessor

**\*\*\*make sure to change cql2 property, but not the cql property\*\*\***

1. Deploy the service.

XML Examples:

Object Query w/Sort

\*\*\*must specify an “attributeName” and “order” (ASC or DESC)

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.onetoone.unidirectional.withjoin.Bag"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<ext:SortLimitExtension xmlns:ext="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<ext:Sort attributeName="style" order="desc" />

</ext:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>

Named Attribute Query w/Sort

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.manytomany.unidirectional.Author"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<cql2:SortLimitExtension xmlns:ext="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<cql2:NamedAttribute attributeName="id"/>

<cql2:NamedAttribute attributeName="name"/>

<cql2:Sort attributeName="name" order="asc" />

</cql2:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>

Distinct Query w/Sort

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.onetoone.multipleassociation.Parent"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<cql2:SortLimitExtension xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<cql2:Sort attributeName="name" order="desc" />

<cql2:DistinctAttribute attributeName="name" />

</cql2:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>

**Limit Query**

\*\*\*must specify “firstRow” (zero is first row), “numberOfRows” is optional

Limit Query that returns first 30 rows

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.manytomany.unidirectional.Author"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<cql2:SortLimitExtension xmlns:ext="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<cql2:Limit firstRow="0" numberOfRows="30" />

</cql2:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>

Limit Query that returns all rows after 20th row

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.manytomany.unidirectional.Author"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<cql2:SortLimitExtension xmlns:ext="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<cql2:Limit firstRow="20" />

</cql2:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>

Named Attribute Query w/Sort & Limit

<cql2:CQLQuery xmlns:cql2="http://CQL.caBIG/2/org.cagrid.cql2">

<cql2:CQLTargetObject className="gov.nih.nci.cacoresdk.domain.manytomany.unidirectional.Author"/>

<cql2:CQLQueryModifier>

<cql2:ModifierExtension>

<cql2:SortLimitExtension xmlns:ext="http://CQL.caBIG/2/org.cagrid.cql2.extras">

<cql2:NamedAttribute attributeName="id"/>

<cql2:NamedAttribute attributeName="name"/>

<cql2:Sort attributeName="name" order="asc" />

<cql2:Limit firstRow="3" numberOfRows="300" />

</cql2:SortLimitExtension>

</cql2:ModifierExtension>

</cql2:CQLQueryModifier>

</cql2:CQLQuery>