

# Measure Groups

You can obtain all the details you need for the measure groups in a specified catalog.

## Request

A query for measure groups must include the following:

- ▶ The SELECT statement must start with one or more measure group parameters (comma separated).
- ▶ After the parameters you must provide the following data source: `FROM $system.MDSHEMA_MEASUREGROUPS`
- ▶ The name of the published catalog (AtScale project) for which you need measure group information must be specified in the `Properties > PropertyList > Catalog` element. For details on obtaining a catalog name, see [Catalogs](#).

You can request the following measure group parameters:

- ▶ CATALOG\_NAME
- ▶ CUBE\_GUID
- ▶ CUBE\_NAME
- ▶ MEASUREGROUP\_CAPTION
- ▶ MEASUREGROUP\_NAME

For details about the parameter types, see the `xsd:schema` element in the sample response provided below.

## Response

The response contains a `<row>` element for each measure group in the specified catalog. Each of these elements contains the values of the requested parameters.

## Sample Request

The example here shows how to make a request with the `curl` tool:

- ▶ The requested data are the measure group name (MEASUREGROUP\_NAME) and the catalog name (CATALOG\_NAME).
- ▶ The request is for the measure groups in the Sales Insights catalog.
- ▶ The token is obtained in advance.
- ▶ The query is for the default organization.
- ▶ The address of the AtScale system is: `http://example.com:10502/xmla/default`

The XML part of the request is as follows:

```
<?xml version="1.0"?>
<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">
  <Body>
    <Execute xmlns="urn:schemas-microsoft-com:xml-analysis">
      <Command>
        <Statement>SELECT CATALOG_NAME, MEASUREGROUP_NAME FROM
$system.MDSCHEMA_MEASUREGROUPS</Statement>
      </Command>
      <Properties>
        <PropertyList>
          <Catalog>Sales Insights</Catalog>
        </PropertyList>
      </Properties>
    </Execute>
  </Body>
</Envelope>
```

Here is the full form of the curl request:

```
curl -X POST \
-H "Authorization:Bearer $token" -H 'Content-Type: application/xml' \
-d '<Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/">\
<Body><Execute xmlns="urn:schemas-microsoft-com:xml-analysis">\
  <Command>\
    <Statement>SELECT CATALOG_NAME, MEASUREGROUP_NAME FROM
$system.MDSCHEMA_MEASUREGROUPS</Statement>\
  </Command>\
  <Properties><PropertyList>\
    <Catalog>Sales Insights</Catalog>
  </PropertyList></Properties>\
</Execute></Body></Envelope>' \
http://example.com:10502/xmla/default
```

## Sample Response

The response for the sample request above contains `<row>` elements for each measure group found. As requested, each of these elements contains only the measure group and catalog name:

```
<row>
  <CATALOG_NAME>Sales Insights</CATALOG_NAME>
  <MEASUREGROUP_NAME>Internet Sales Cube</MEASUREGROUP_NAME>
</row>
```

Here is the full response:

```

<?xml version="1.0"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <as:queryId xmlns:as="http://xsd.atscale.com/soap_v1" soap:mustUnderstand="0">2da77982-9423-489d-9f95-
e904f72fd47d</as:queryId>
  </soap:Header>
  <soap:Body>
    <ExecuteResponse xmlns="urn:schemas-microsoft-com:xml-analysis">
      <return>
        <root xmlns="urn:schemas-microsoft-com:xml-analysis:rowset"
xmlns:msxmla="http://schemas.microsoft.com/analysisservices/2003/xmla"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
          <xsd:schema xmlns:sql="urn:schemas-microsoft-com:xml-sql" targetNamespace="urn:schemas-microsoft-
com:xml-analysis:rowset" elementFormDefault="qualified">
            <xsd:element name="root">
              <xsd:complexType>
                <xsd:sequence minOccurs="0" maxOccurs="unbounded">
                  <xsd:element name="row" type="row"/>
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
            <xsd:simpleType name="uuid">
              <xsd:restriction base="xsd:string">
                <xsd:pattern value="[0-9a-zA-Z]{8}-[0-9a-zA-Z]{4}-[0-9a-zA-Z]{4}-[0-9a-zA-Z]{4}-[0-9a-zA-Z]{12}"/>
              </xsd:restriction>
            </xsd:simpleType>
            <xsd:complexType name="xmlDocument">
              <xsd:sequence>
                <xsd:any/>
              </xsd:sequence>
            </xsd:complexType>
            <xsd:complexType name="row">
              <xsd:sequence>
                <xsd:element sql:field="CATALOG_NAME" name="CATALOG_NAME" type="xsd:string" minOccurs="0"/>
                <xsd:element sql:field="MEASUREGROUP_NAME" name="MEASUREGROUP_NAME" type="xsd:string"
minOccurs="0"/>
              </xsd:sequence>
            </xsd:complexType>
          </xsd:schema>
          <row>
            <CATALOG_NAME>Sales Insights</CATALOG_NAME>
            <MEASUREGROUP_NAME>Internet Sales Cube</MEASUREGROUP_NAME>
          </row>
        </root>
      </return>
    </ExecuteResponse>
  </soap:Body>
</soap:Envelope>

```

## More Information

- ▲ [Request reference](#) - how to make requests to the Data Catalog API.
- ▲ [Response reference](#) - how to receive and process responses from the Data Catalog API.