

# MDX Query for OLAP Server

This example demonstrates how to use MDX to query OLAP server via OLAP4J (<http://www.olap4j.org/>)

## Prerequisite:

The OLAP server must support XML for Analysis.

(Example: Mondrian OLAP Server: <http://mondrian.pentaho.com>)

## Steps:

1. Download OLAP4J at <http://www.olap4j.org/>
2. Unzip the distribution and copy all the jar files located at `olap4j-1.x.x.xxx\lib` (except **olap4j-jdk14-1.x.x.xxx.jar**) to `\\Repertoire installation directory\ext\`
3. Create an object datasource:
  - a. Create the data columns. The name and type of the columns will have to be derived from the MDX Query.
  - b. Paste the following code under the JavaScript tab.
4. Modify the two parameters `${URL}` & `${MDX}`:
  - a. `${URL}` - The service end point.  
  
For example: `jdbc:xmla:Server=http://localhost:8080/mondrian/xmla`
  - b. `${MDX}` - The MDX Query.
5. Run the datasource.

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```
importClass(org.olap4j.OlapConnection);
importClass(org.olap4j.OlapStatement);
importClass(org.olap4j.CellSet);
importClass(org.olap4j.Position);
importClass(java.sql.Connection);
importClass(java.sql.DriverManager);

function pushTo(/*PushContext*/ cxt, /*DataListener*/ dl)
{
```

```

new java.lang.Class.forName("org.olap4j.driver.xmla.XmlaOlap4jDriver");

var connection = new java.sql.DriverManager.getConnection("${URL}");
var olapConnection = connection.unwrap(org.olap4j.OlapConnection);
var statement = olapConnection.createStatement();

var cellSet = statement.executeOlapQuery("${MDX##}");

dl.startData(this);

for (var i=0;i<cellSet.getAxes().get(1).getPositionCount();i++)
{
    var rec = this.newRecordInstance();
    var data = rec.getData();

    //print dimension
        for (var j =0; j < cellSet.getAxes().get(1).getPositions().get(0).getMembers().size(); j++)
    {
        data[j] = cellSet.getAxes().get(1).getPositions().get(i).getMembers().get(j).getName();
    }

    var cnt = j+1;

    //print measures
        for (var k =0; k < cellSet.getAxes().get(0).getPositions().size(); k++)
    {
        data[j] = cellSet.getCell(cellSet.getAxes().get(0).getPositions().get(k),
cellSet.getAxes().get(1).getPositions().get(i)).getFormattedValue()
        j++;
    }
}

```

```
}
```

```
dl.processRecord(rec);
```

```
}
```

```
dl.endData(this);
```

```
}
```