

Using Java to build or Form In-Clause in SOQL queries



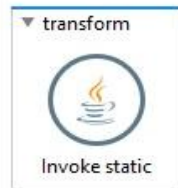
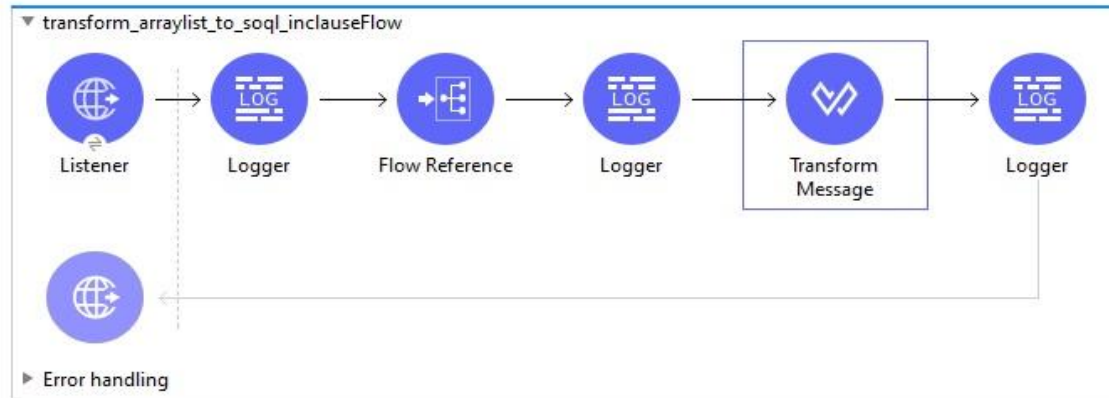
Use Case

As a developer I want to transform incoming arraylist in the format shown in example 1 to the format shown in example 2 by which the transformed list can be directly used for SOQL In- Clause.










Example:

- 1) ["item1", "item2", "item3"]
- 2) ('item1', 'item2', 'item3')

Complete Mule flow



Create a Java Class under src/main/java

- ▼  transform_arraylist_to_soql_inclause
 - ▼  src/main/mule (Flows)
 -  transform_arraylist_to_soql_inclause.xml
 - ▼  src/main/java
 - ▼  transform_arraylist_to_soql_inclause
 - >  Transformations.java
 - >  src/main/resources
 - >  src/test/java
 - >  src/test/resources

```
package transform_arraylist_to_soql_inclause;

import java.util.List;

public final class Transformations {

    public static String codeList(List<String> codesList) {

        String flowvar = "";

        if (codesList != null && codesList.size() > 0) {
            for (String codeL : codesList) {
                if (flowvar == "")
                    flowvar = "" + codeL + ",";
                else
                    flowvar = flowvar + "," + codeL + ",";
            }
            return "(" + flowvar + ")";
        } else
            return "('{}')";

    }

}
```

Configure Listener with Default settings and with endpoint /transform

The screenshot shows the MuleSoft IDE interface. On the left, a sidebar contains a tree view with 'Listener' selected. The main workspace displays the configuration for the 'Listener' element. The 'General' tab is active, showing the 'Path' field set to '/transform'. A 'Global Element Properties' dialog is open, showing the configuration for the 'HTTP Listener config' element. The dialog has tabs for 'General', 'Notes', and 'Help'. The 'General' tab is active, showing the 'Name' field set to 'HTTP_Listener_config'. Below the 'Name' field is the 'Connection' section, which has tabs for 'General', 'TLS', and 'Advanced'. The 'General' tab is active, showing the 'Connection' section with the following settings: Protocol: HTTP (Default), Host: All Interfaces [0.0.0.0] (default), and Port: 8081. Below the 'Connection' section is the 'General' section, which has the 'Base path' field set to (empty) and the 'Listener interceptors' dropdown set to 'None'. At the bottom of the dialog are buttons for 'Test Connection...', 'OK', and 'Cancel'.

Listener x Problems Console

General

MIME Type

Redelivery

Responses

Advanced

Metadata

Notes

Help

Display Name: Listener

Basic Settings

Connector configuration: HTTP_Listener_config

General

Path: /transform

Global Element Properties

HTTP Listener config

Configuration element for a HttpListener.

General Notes Help

Name: HTTP_Listener_config

Connection

General TLS Advanced

Connection

Protocol: HTTP (Default)

Host: All Interfaces [0.0.0.0] (default)

Port: 8081

General

Base path:

Listener interceptors: None

Test Connection... OK Cancel

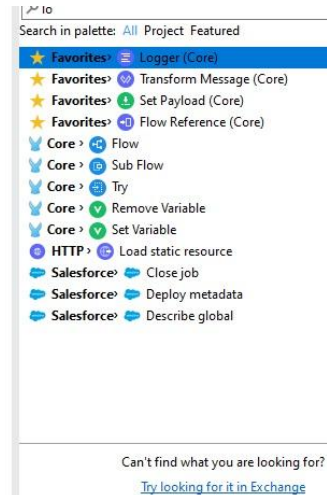
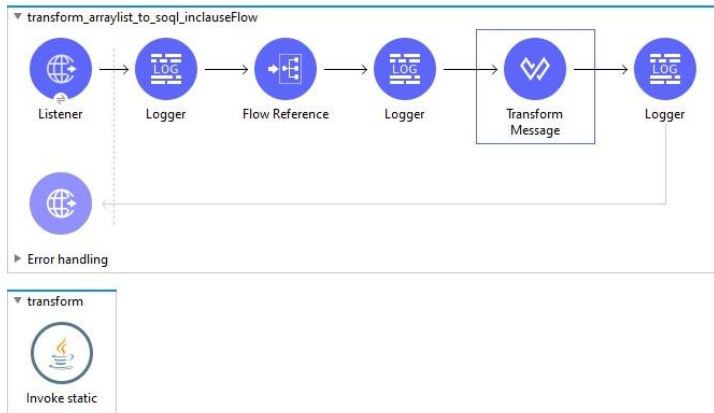
Configure Invoke Static as below

The screenshot displays the MuleSoft IDE interface for configuring an 'Invoke static' connector. The top-left pane shows a 'transform' folder containing the 'Invoke static' connector icon. The main workspace is divided into three tabs: 'Message Flow', 'Global Elements', and 'Configuration XML'. The 'Global Elements' tab is active, showing the configuration for the 'Invoke static' connector. The left sidebar contains a navigation menu with 'General', 'MIME Type', 'Advanced', 'Error Mapping', 'Notes', and 'Help'. The 'General' tab is selected, showing the following configuration details:

- Display Name:** Invoke static
- General:**
 - Args:** 1 {arg0:payload.arrayList}
- Method:**
 - Class:** transform_arraylist_to_sql_inclause.Transformations
 - Method:** codeList(List codesList) (codeList(java.util.List))

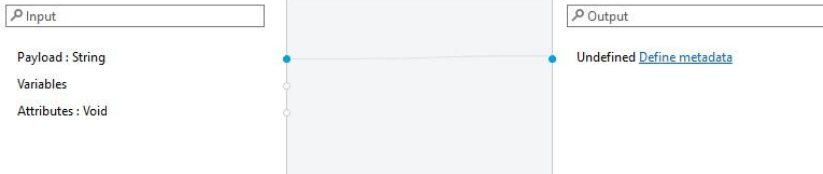
The 'Problems' and 'Console' tabs are also visible at the top of the workspace, with a message stating 'There are no errors.'

Configure Transform Message component with required response JSON

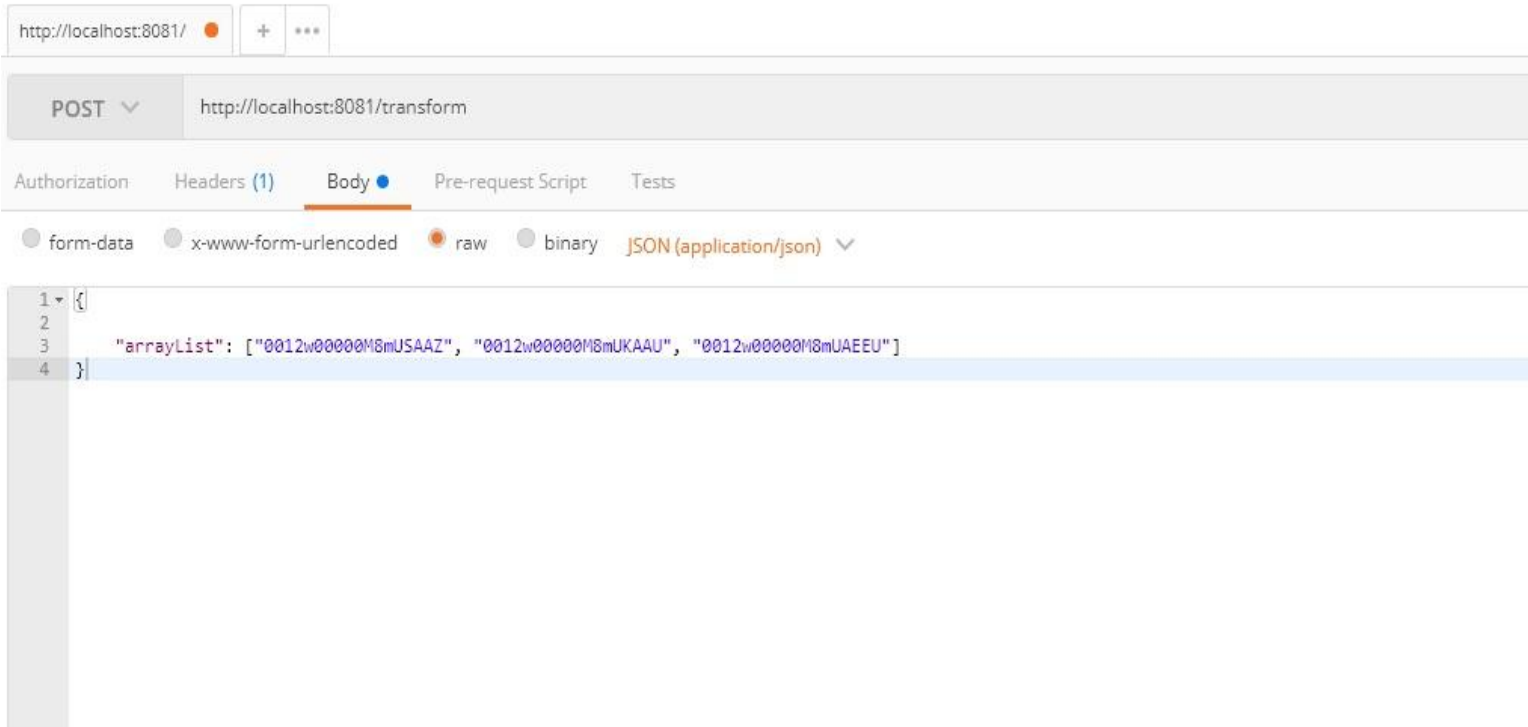


Message Flow Global Elements Configuration XML

Transform Message x Problems Console



Deploy the App and invoke the API using Postman



API Response

POST ▼ http://localhost:8081/transform

Authorization Headers (1) **Body** Pre-request Script Tests

☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary JSON (application/json) ▼

```
1 {  
2  
3   "arrayList": ["0012w00000M8mUSAAZ", "0012w00000M8mUKAAU", "0012w00000M8mUAEEU"]  
4 }
```

Body Cookies Headers (3) Test Results

Pretty Raw Preview JSON ≡

```
1 {  
2   "transformedList": "( '0012w00000M8mUSAAZ', '0012w00000M8mUKAAU', '0012w00000M8mUAEEU' )",  
3   "transformedListInSQL": "select Id,Name from Account Where Id in ( '0012w00000M8mUSAAZ', '0012w00000M8mUKAAU', '0012w00000M8mUAEEU' )"  
4 }
```