

MongoDB Query Tool 1.0

The MongoDB Query tool sends a query to a MongoDB database and returns the JSON-format results from that query. JSON tools such as JSON Data Banks and JSON Assertors can be added as "outputs" to MongoDB Query tools in order to display and/or validate the query results.

Requirements

- MongoDB versions 2.6, 3.0, 3.2, 3.4, and 3.6 are supported.
- This tool requires SOAtest/Virtualize 9.5 or later.

Installation

The tool can be installed from the UI or the command line.

UI Installation

1. Choose **Parasoft> Preferences**.
2. Choose **System Properties** and click **Add JARs**.
3. Browse to the `mongodbquerytool.jar` file and click **Open**.
4. Apply the changes and restart SOAtest/Virtualize.

Command Line Installation

Add the `mongodbquerytool.jar` file to the `system.properties.classpath` property in your `localsettings.properties` file. For example:

```
system.properties.classpath=<path to jar>/mongodbquerytool.jar
```

Usage

You can add MongoDB Query tools as standalone tools with the SOAtest Add Test wizard. You can also add them as Virtualize provisioning action tools. Before the tool can be run, you must configure the MongoDB connection, as well as the query you want to run. Once a MongoDB Query tool is added to a suite, you can add any JSON tool as an output.

Configuration

You can configure the following settings.

Connection Settings

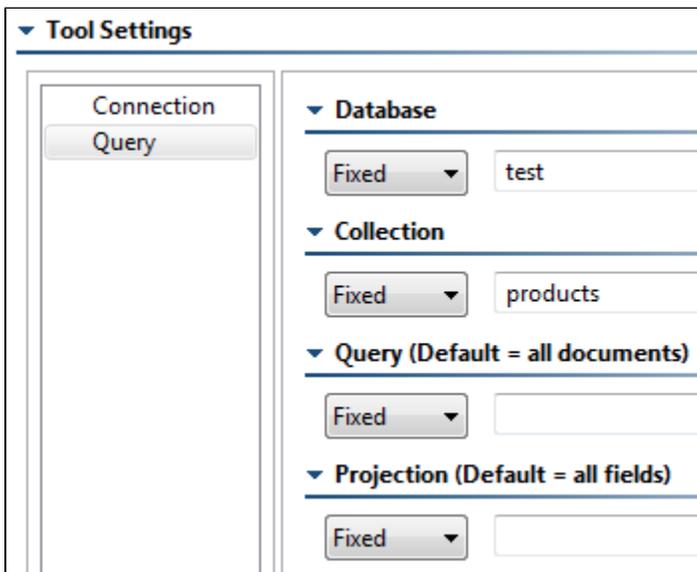
| | |
|---------------------------------|--|
| Host | Specifies the host of the MongoDB server to query. If empty, the default value will be used. Default is <code>localhost</code> . |
| Port | Specifies the port of the MongoDB server to query. If empty, the default value will be used. Default is <code>27017</code> . |
| Authentication Mechanism | Specify the authentication mechanism used to connect to the MongoDB server. The following values are acceptable: <code>none</code> : Use this value if no authentication mechanism is required. <code>server-defined</code> : Use this setting to use the default authentication method configured on the MongoDB server (SCRAM-SHA-1 or MONGODB-CR). <code>LDAP</code> : Use this setting to authenticate using an LDAP service, such as Active Directory or OpenLDAP. |
| Username | Specifies the username with which to authenticate to a MongoDB database that uses authentication. |
| Password | Specifies the password with which to authenticate to a MongoDB database that uses authentication. |
| Authentication Database | Specifies the authentication database to use. If empty, the default value will be used. This setting is ignored when the authentication mechanism is set to <code>LDAP</code> . Default is <code>admin</code> . |
| Use SSL | Specifies whether SSL should be used when connecting to the MongoDB server. If empty, the default value will be used. Default is <code>false</code> . |

Query Settings

| | |
|-------------------|---|
| Database | Specifies the name of the MongoDB database to query |
| Collection | Specifies the name of the MongoDB collection to query. |
| Query | Specifies the query in the strict mode of the MongoDB Extended JSON language (see the MongoDB Documentation for details). If empty, the default value will be used. Default is <code>all documents</code> . |
| Projection | Specifies the projection in the strict mode of the MongoDB Extended JSON language (see the MongoDB Documentation for details). If empty, the default value will be used. Default is <code>all fields</code> . |

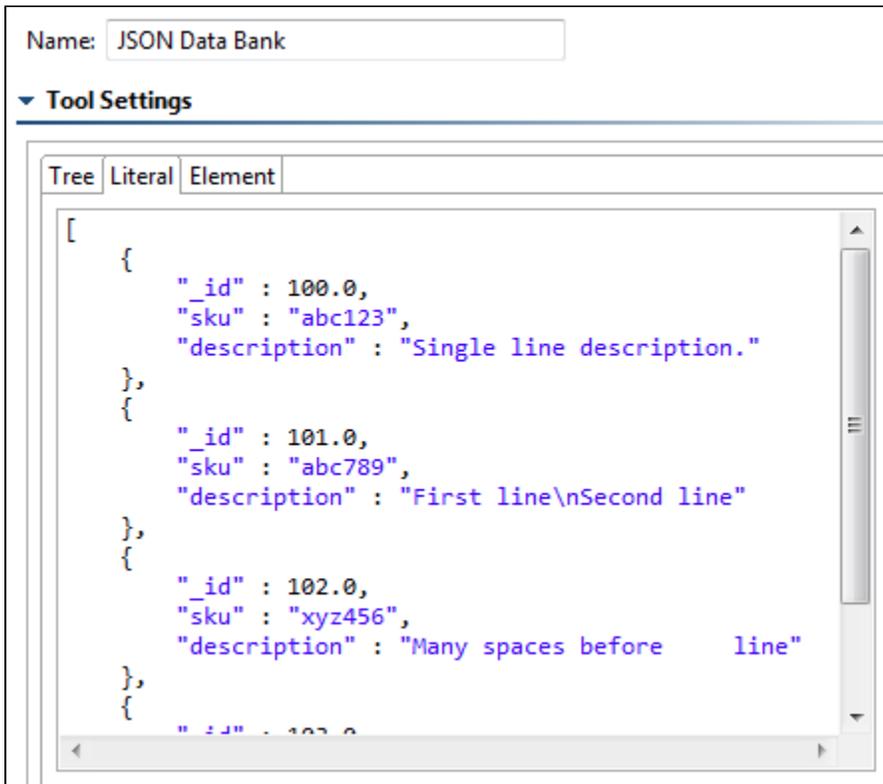
Example Query 1

The following query returns all the items in the product collection.



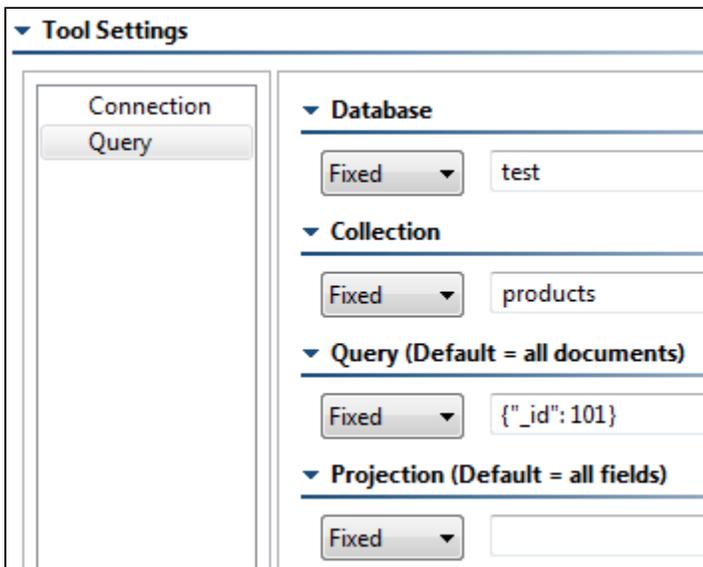
The screenshot shows a 'Tool Settings' dialog box with a sidebar on the left containing 'Connection' and 'Query' buttons. The main area is divided into four sections, each with a dropdown menu set to 'Fixed' and a text input field:

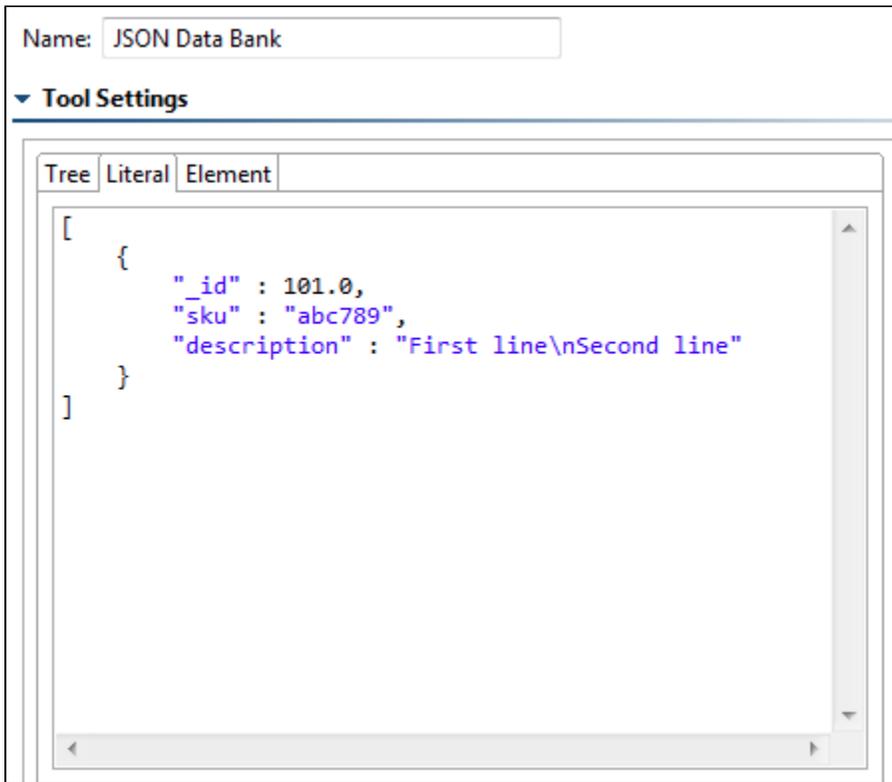
- Database:** The dropdown is 'Fixed' and the text field contains 'test'.
- Collection:** The dropdown is 'Fixed' and the text field contains 'products'.
- Query (Default = all documents):** The dropdown is 'Fixed' and the text field is empty.
- Projection (Default = all fields):** The dropdown is 'Fixed' and the text field is empty.



Example Query 2

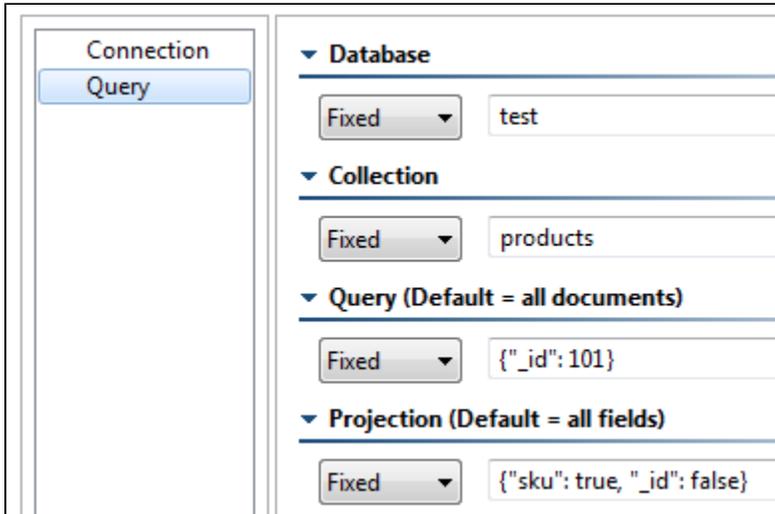
The following query returns all fields of product id 101 from the products collection.

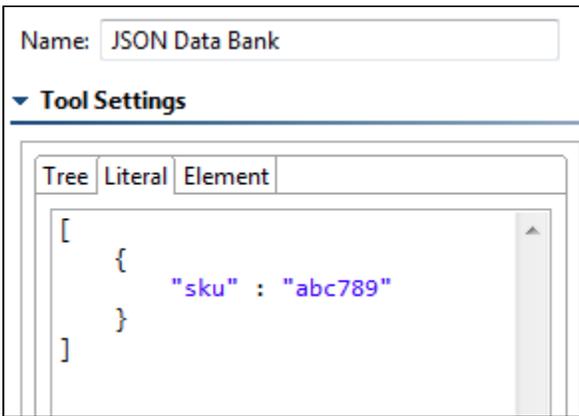




Example Query 3

The following query returns only the sku field for product id 101 from the products collection.

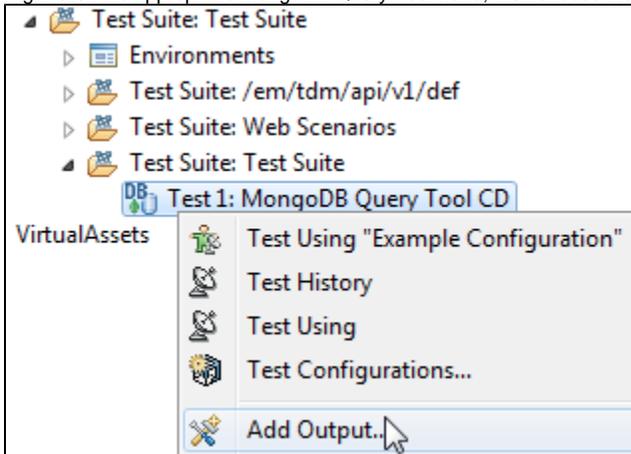




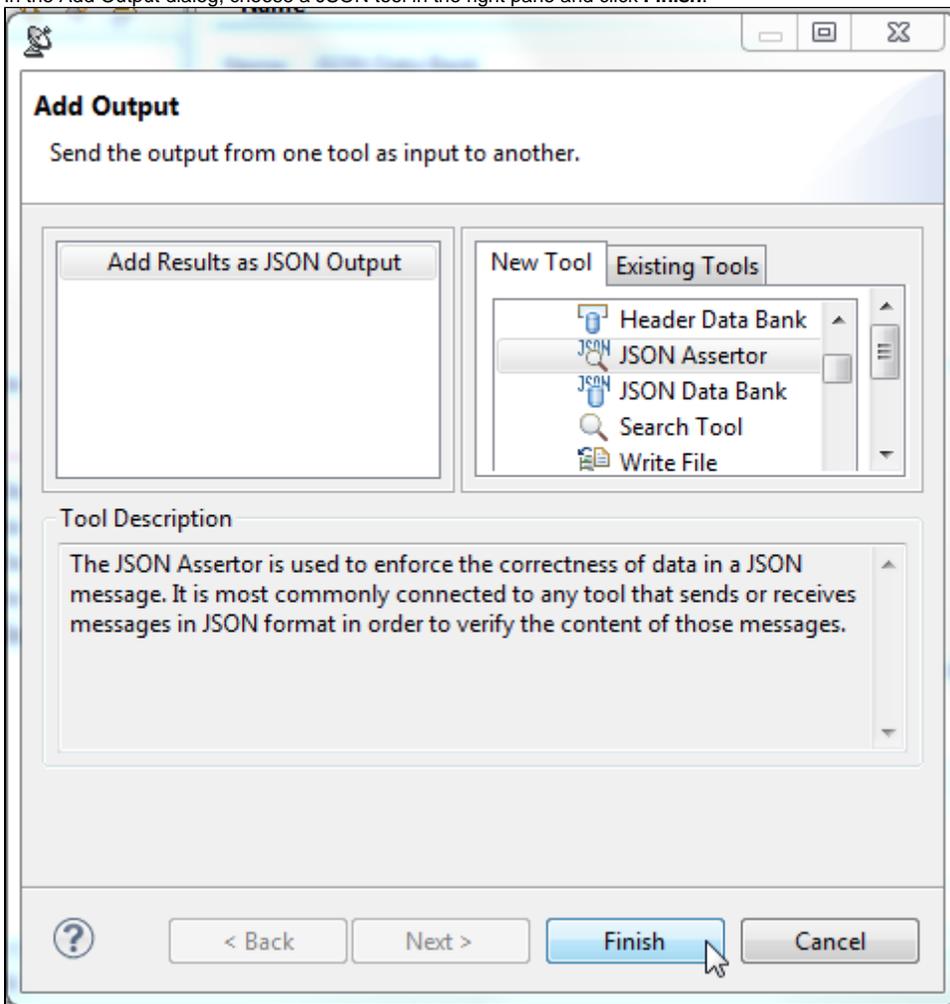
Using Output Tools to View and Process Query Results

Any tools that operate on JSON can be added as outputs to a MongoDB Query tool. For example, you might want to add a JSON Data Bank to view the results and/or a JSON Asserter to validate the results. To add an output:

1. Right-click the appropriate MongoDB Query Tool node, then choose **Add Output**.



2. In the Add Output dialog, choose a JSON tool in the right pane and click **Finish**.



After the MongoDB Query tool is executed, output will be passed to the chained tool. You can then perform additional tool configuration as needed (e.g., to specify assertions, extractions, etc.).

Third-Party Content

This plugin includes items that have been sourced from third parties as outlined below.

- mongo-java-driver ([Apache License 2.0](#))

Additional license details are available in this plugin's licenses folder.