* **Ingesting Custom Fields (FIELD1, FIELD3 etc.)**

1. **Create a connector using the Ingest Service.**

Execute below API to create the connector

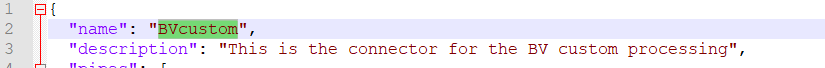
API Endpoint: http://<hostname/IP>:30800/connectors

Method: POST

Authorization: Basic Auth (spiuser/\*\*\*\*\*\*)

Request body: 

Note: Change the name and description only from Request Body JSON.



For more information checkout below link <https://help.hcltechsw.com/commerce/9.1.0/tutorials/tutorial/tsd_connector_elastic.html>

1. **Configure the connector created in the previous step using the NIFI user interface.**

Follow below document till point 7

<https://help.hcltechsw.com/commerce/9.1.0/tutorials/tutorial/tsd_connectorconfigure_elastic.html>

I have used below files while following above steps for ingesting FIELD1 and FIELD3







Position to add custom Process Groups in auth.reindex

A screenshot of a computer

Description automatically generated with low confidence

*Note: Please enable NIFI flow from all custom process groups*

Graphical user interface, application, table, Excel

Description automatically generated

**Graphical user interface

Description automatically generated**

1. **Build an index and verify that the custom field is indexed.**

Follow below document

<https://help.hcltechsw.com/commerce/9.1.0/tutorials/tutorial/tsd_search6_buildindex_elastic.html>

Verify the output: Output for FILED1 and FILED3 is like below

Text, email

Description automatically generated

*Note: Many times, indexing will not be successful but still you are able to get FILED1 and FILED3 indexed. In this case, ignore the Status of indexing job.*

1. **Customize the user data field name mapping and search configuration to include custom data using the configuration API.**

Follow below document

<https://help.hcltechsw.com/commerce/9.1.0/tutorials/tutorial/tsd_customizeuserdata_elastic.html>

I have used below files while following above steps.





* **Attaching all required REST API with sample data:**



Import above file in postman to access all required REST API’s

* **Creating Custom Facet using Query Service**

*Note: Enable Query Service Trace if required*

[*https://help.hcltechsw.com/commerce/9.1.0/search/refs/rsdingest\_troubleshooting.html#troubleshooting\_ingest\_\_QueryService\_troubleshooting*](https://help.hcltechsw.com/commerce/9.1.0/search/refs/rsdingest_troubleshooting.html#troubleshooting_ingest__QueryService_troubleshooting)

1. **Setup the Query Service Code in Local**

Follow below document to setup the Query Service Code in Local Eclipse



*Note: I have followed only “Running Service” point from above document*

1. **Create new custom provider**

To add custom facet, we need to include facet configuration in facetPropList

1. Create the custom provider class (for example: SearchByCustomBVFacetExpressionProvider) under package

“com.hcl.commerce.search.internal.expression.provider”

1. Copy complete code from “SearchByFacetExpressionProvider” and paste it in new custom provider
2. Add below code in custom provider (invoke method). Change it as per your need.

Graphical user interface, text, application

Description automatically generated

Sample code for custom provider



1. **Customize the pre processor**

Add below condition in SearchFacetQueryPreprocessor (invoke method), so that custom facet will not be included under attributes section and then elastic query will be created correctly.

Graphical user interface, text, application, email

Description automatically generated

Sample code:



1. **Customize the post processor**
2. Add below conditions commented between /\*BV Start \*/ and /\* BV END \*/ in SearchFacetQueryPostprocessor (invoke method)

Text

Description automatically generated

1. Add below methods to customize the facet data from normal facet to range facet
2. mediateFacetForRating
3. isBetweenForRating
4. addFacetEntryForRating

Sample code:

