[SAP Table]Create Custom Function Module

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:23 PM PST

For SAP table, currently we provided an property called customRfcReadTableFunctionModule in the copy source to allow customer to leverage their own logic to process the data.

https://docs.microsoft.com/en-us/azure/data-factory/connector-sap-table#copy-activity-properties

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As a quick guidance on the requirement of the custom function module, here are some hard requirement:

Definition:

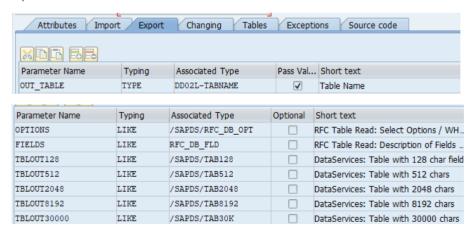
```
*"*"Local Interface:
*" IMPORTING
      VALUE (QUERY TABLE) TYPE DD02L-TABNAME
      VALUE (DELIMITER) TYPE SONV-FLAG OPTIONAL
* 11
      VALUE (NO DATA) TYPE SONV-FLAG OPTIONAL
* 11
      VALUE (ROWSKIPS) TYPE SOID-ACCNT OPTIONAL
* 11
      VALUE (ROWCOUNT) TYPE SOID-ACCNT OPTIONAL
*" EXPORTING
      VALUE (OUT TABLE) TYPE DD02L-TABNAME
* 11
* 11
   TABLES
* 11
       OPTIONS STRUCTURE /SAPDS/RFC DB OPT
* 11
       FIELDS STRUCTURE RFC DB FLD
* 11
       TBLOUT128 STRUCTURE /SAPDS/TAB128
* 11
        TBLOUT512 STRUCTURE
                             /SAPDS/TAB512
    TBLOUT2048 STRUCTURE /SAPDS/TAB2048
* 11
       TBLOUT8192 STRUCTURE /SAPDS/TAB8192
* 11
       TBLOUT30000 STRUCTURE /SAPDS/TAB30K
   EXCEPTIONS
* 11
      TABLE NOT AVAILABLE
* 11
       TABLE WITHOUT DATA
* 11
       OPTION NOT VALID
* 11
       FIELD NOT VALID
       NOT AUTHORIZED
       DATA BUFFER EXCEEDED
  Attributes Import Export Changing Tables Exceptions Source code
Default value
Parameter Name
             Typi... Associated Type
                                                    Op... Pa... Short text
QUERY_TABLE
                  TYPE DD02L-TABNAME
                                                     □   Table Name
DELIMITER
                  TYPE SONV-FLAG
                                                     ✓ ✓ Text field length 1
NO DATA
                  TYPE SONV-FLAG
                                                     TYPE SOID-ACCNT
ROWSKIPS
                                                     ✓

✓ SAPoffice: Type I

                   TYPE SOID-ACCNT
ROWCOUNT

✓ SAPoffice: Type I
```

Export data into one of the tables



The flow of SAP table connector work with custom function module will be:

- 1. Build connection with SAP server via SAP Nco
- 2. Invoke custom Function Module with the parameters set:

- a. QUERY_TABLE: the table name you set in the ADF SAP Table dataset; b. Delimiter: the delimiter you set in the ADF SAP TBLE SOURCE; c. ROWCOUNT/Option/Fields: the rowcount/Aggregated Option/Fields you set in the ADF Table source;
- 3. Get the result and parse in the way as below:
 - a. Parse the values in the Fields table to get the schemas

| Tables | | Value |
|---------|---------|------------------------------|
| OPTIONS | Result: | 0 Entries |
| FIELDS | Result: | iii 0 Entries iii 31 Entries |

b. Get the value of the output table to see which table contains the values

| Export parameters | Value |
|-------------------|-----------|
| OUT_TABLE | TBLOUT512 |

c. Get the values in the OUT_TABLE to get the data and parse then write into the sink.