ONESOURCE™ INDIRECT TAX INTEGRATION FOR SAP GLOBAL NEXT

User Guide for Global Next tables Archival using SAP ILM

PRODUCT VERSION 6.7.2.0

Document Version 1

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The software documented within is Patent Pending in the United States.

DOCUMENT HISTORY

VERSION NUMBER	VERSION DATE	SUMMARY
1	June 2023	First release of ONESOURCE Indirect Tax Integration for SAP Global Next – User guide for Global Next tables archival using SAP ILM 6.7.2.0

Archiving of Global Next tables using SAP Information Lifecycle Management (ILM)

LEVERAGING SAP ILM TOOL FOR EFFECTIVE ARCHIVING:

In today's digital age, businesses generate massive amounts of data, and managing this data efficiently is crucial. SAP systems play a vital role in various organizations, serving as a backbone for critical business processes. Over time, these systems accumulate vast volumes of data, leading to increased storage requirements, performance challenges, and compliance concerns. To address these issues, SAP offers the Information Lifecycle Management (ILM) tool, which enables organizations to implement robust data archiving strategies. In this document, we will explore how the SAP ILM tool can be utilized for archiving Global Next tables effectively in SAP.

The tool provides features and functionalities to address data archiving, retention management, data privacy, and legal compliance requirements. By utilizing ILM, businesses can optimize their SAP system's performance, reduce storage costs, and meet regulatory obligations.

Archiving SAP tables involves moving data from active database tables to secondary storage, while retaining its accessibility and integrity. The SAP ILM tool simplifies this process and enables organizations to archive specific tables based on their business requirements. Here's an overview of the archiving process using SAP ILM.

Global Next tables that can be archived using SAP ILM tool:

/IDT/D_AUDIT_REC,

/IDT/D_AUDIT_STA and

/IDT/D_TAX_DATA

This functionality has been introduced from release 6.7.2.0.

High level overview

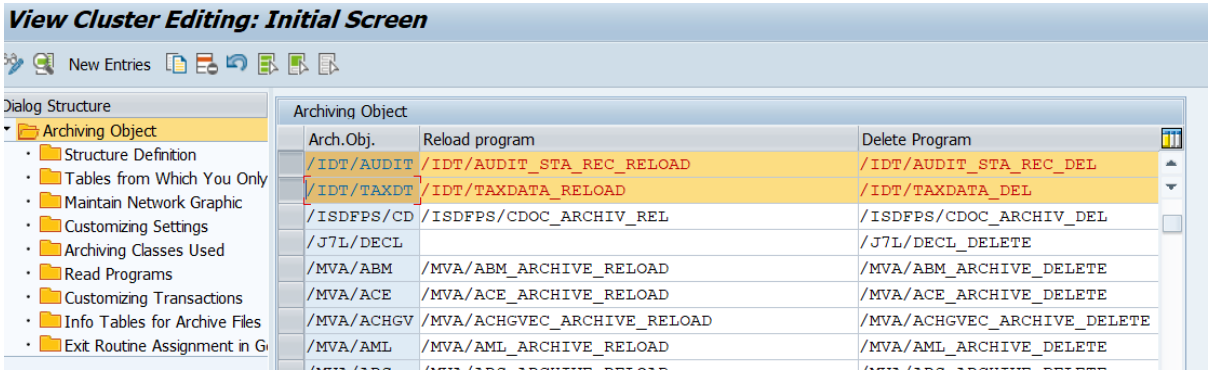
Once the Global Next transports are imported, the archiving objects and programs are available under /IDT/ namespace.

Using SAP ILM mechanism, data can be archived, read the archived data, delete the archived entries and reload the deleted entries to the table. To achieve the functionality Global Next transports will import the archiving objects with associated reports. After importing transports, there are some manual steps need to be performed listed in this document under 'Implementation Steps'.

Archiving objects included in the transports:

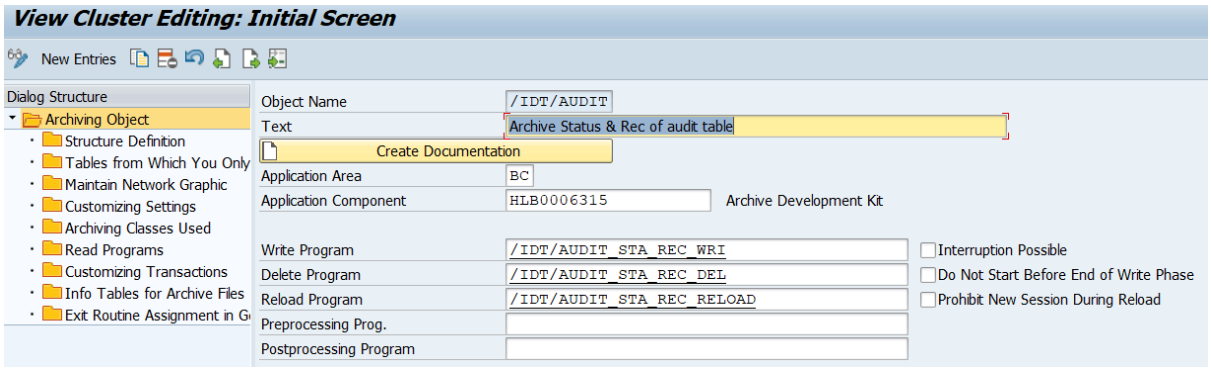
The IDT archiving objects can be viewed from Transaction code: **AOBJ**

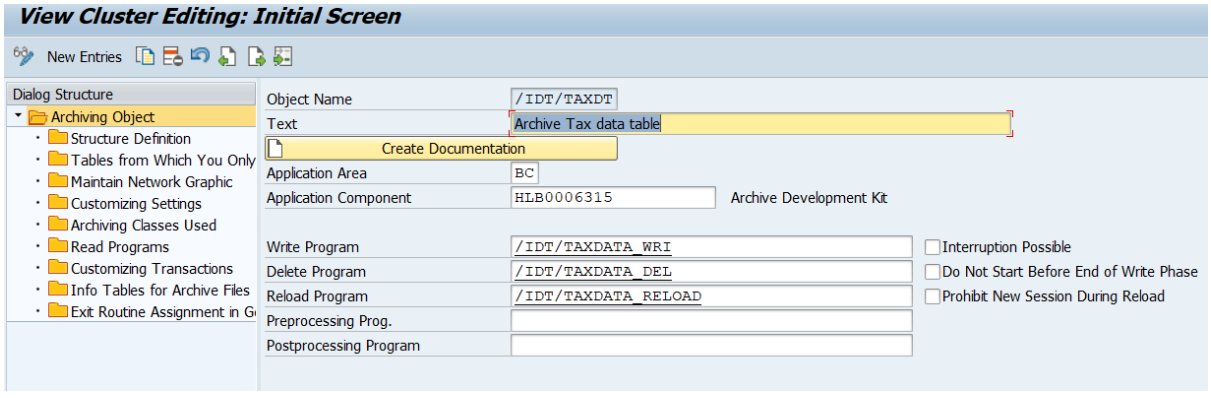
/IDT/AUDIT and /IDT/TAXDT.



Programs associated with the archiving objects:

Each archiving object comes with write, delete and reload programs which are used during Archival process.





These archiving objects can be used in the transaction code: **SARA** to archive.

Archiving object /IDT/AUDIT archives tables /IDT/D_AUDIT_REC & /IDT/D_AUDIT_STA

Archiving object /IDT/TAXDT archives table /IDT/D_TAX_DATA.

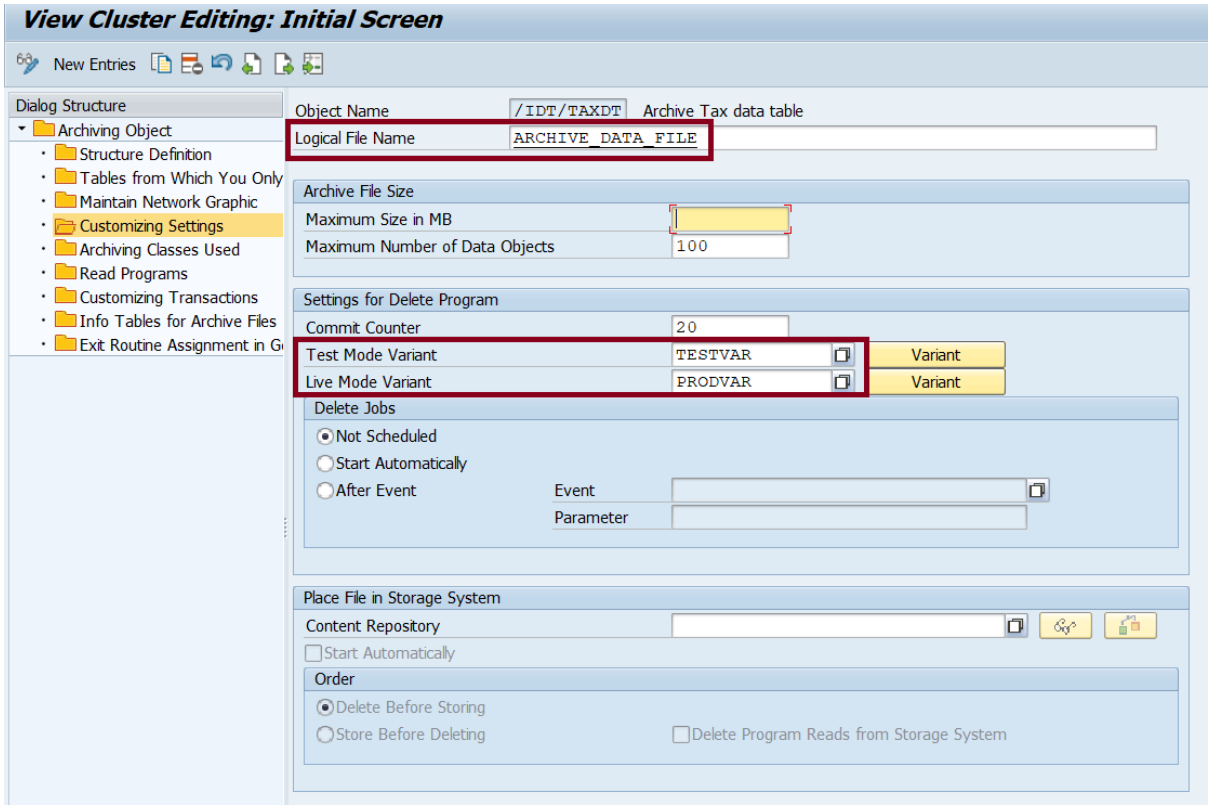
Implementation Steps:

Prerequisite1:
To use ILM for Global Next tables, user must create logical file names in FILE transaction. You can create individual logical file names or assign the same logical file name to both the archiving objects.

Prerequisite2:
For deletion, create two variants like test variant and the production variant.

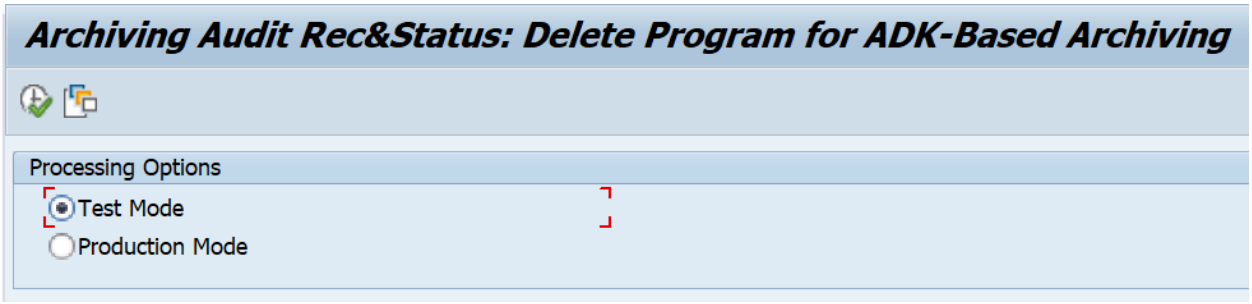
Variants play key role during archival process.

1. Logical file name and variants need to be assigned for each archiving object to store archiving data.
2. Select the archiving object and click on the customizing settings to set up this data.

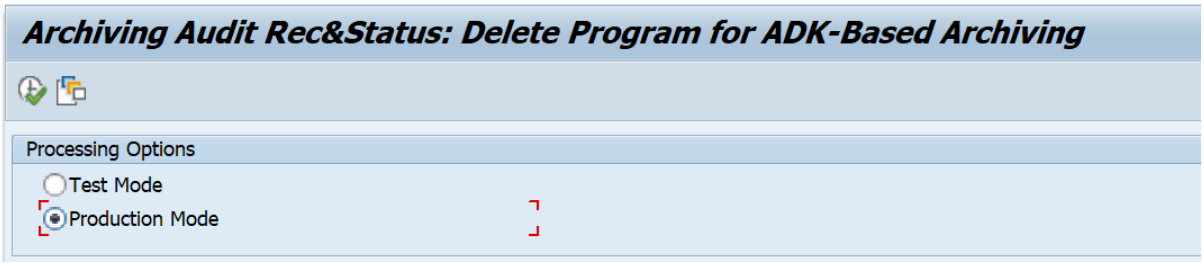


a. File name can be created in transaction FILE.
b. Two variants need to be created for deletion process, TESTVAR and PRODVAR as shown above for deletion process or any user specific that needs to be assigned in above screenshot by clicking Variant button.

Test Mode Variant is the test mode.



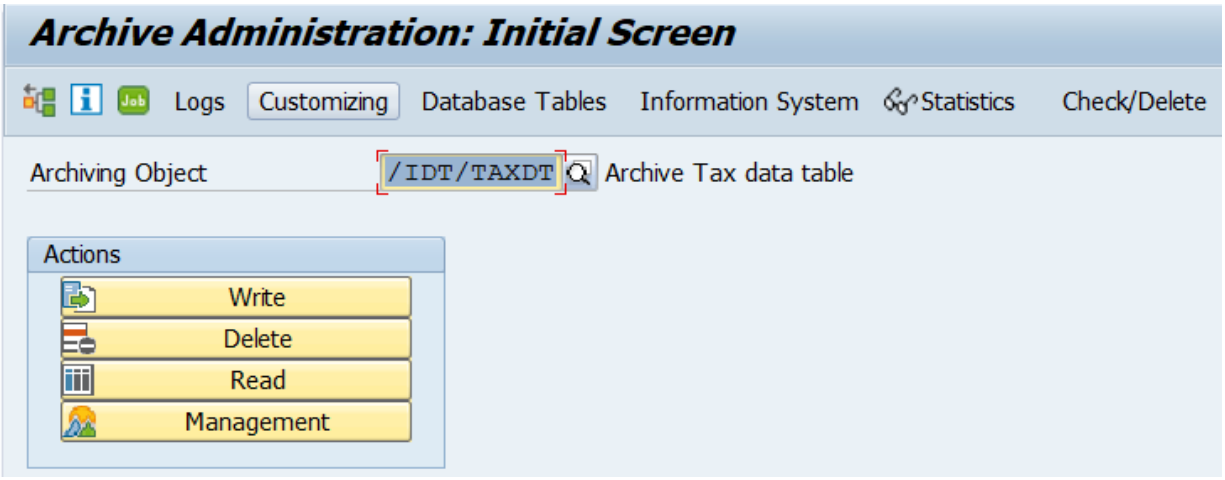
Live Mode variant is the production mode.



Execution of Archival process for Global Next tables

Archiving the tables using transaction code : SARA

Users can use the transaction SARA to write(archive), Delete the archived data, Read the archived data and Reload the deleted data to tables /IDT/D_TAX_DATA, /IDT/D_AUDIT_REC and /IDT/D_AUDIT_STA.



Provide the archiving object name and select the actions.

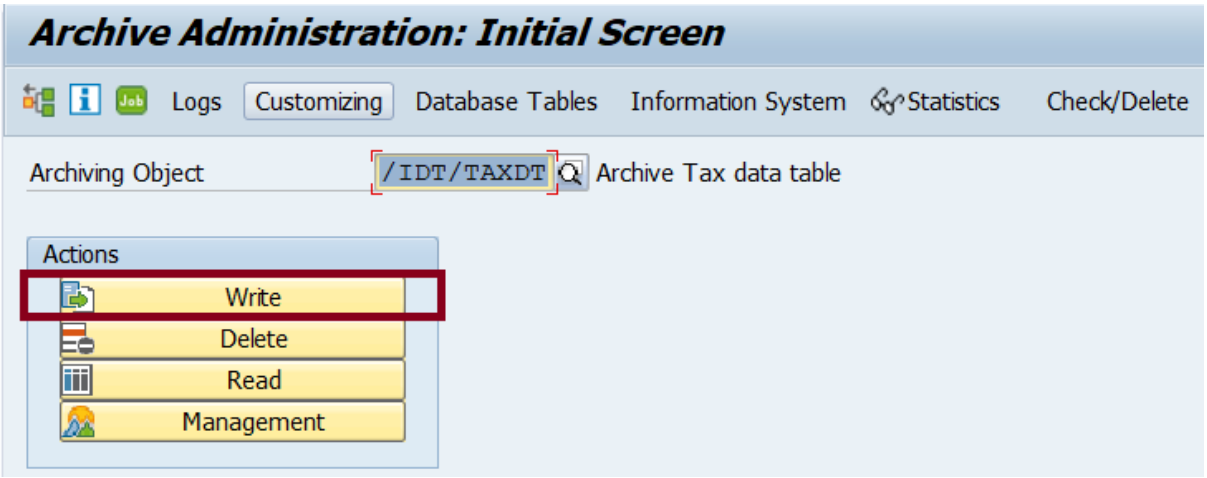
WRITE PROCESS:

You can use 'Write' to write the data from /IDT/D_TAX_DATA table that is defined in the variant to the logical file name.

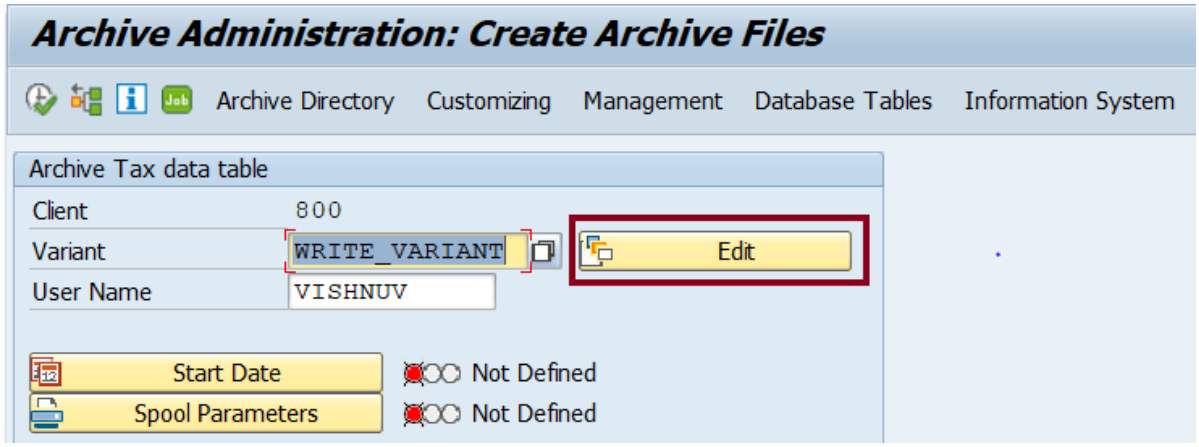
You can run it in two modes

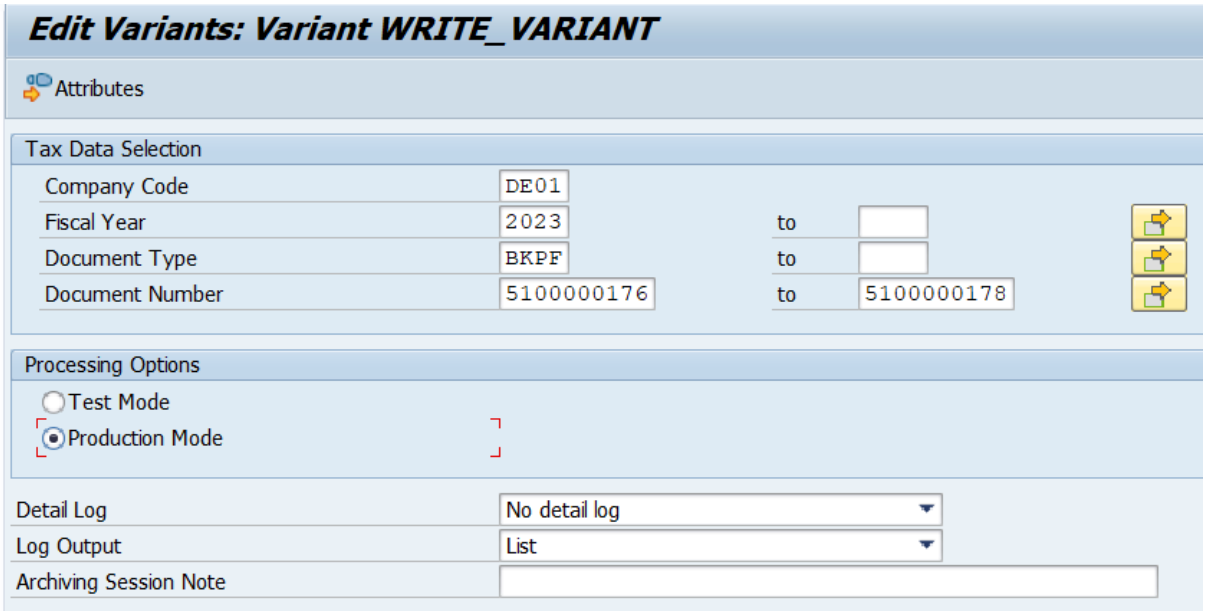
1. Test mode
2. Production mode.

Click on the 'Write' button.

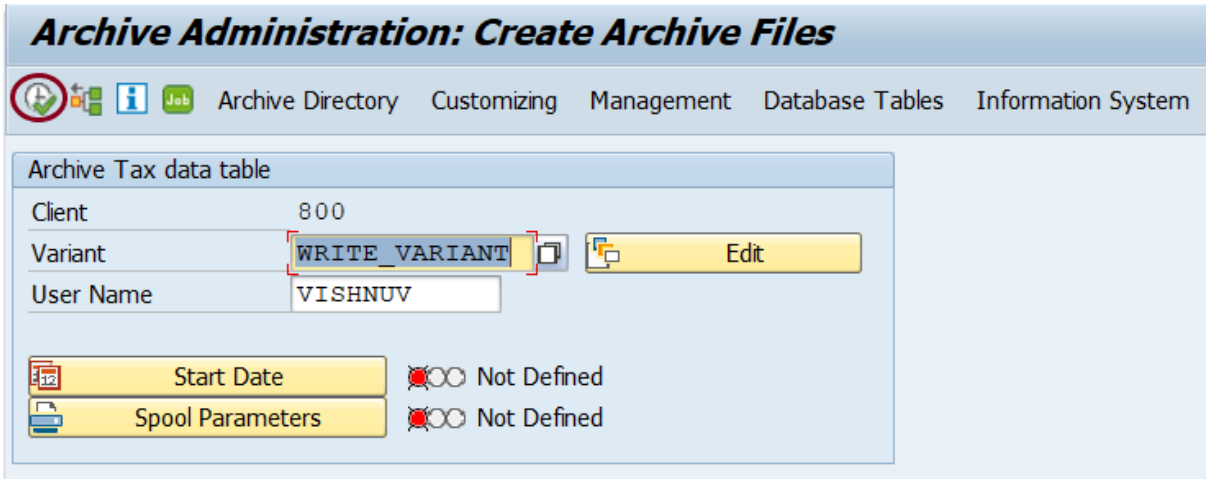


Click on Edit to create variant in either test mode or production mode.

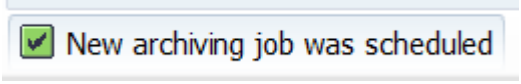




After the variant was saved, provide the start date and spool parameters to start the job.



Once you click on execute the below message appears.

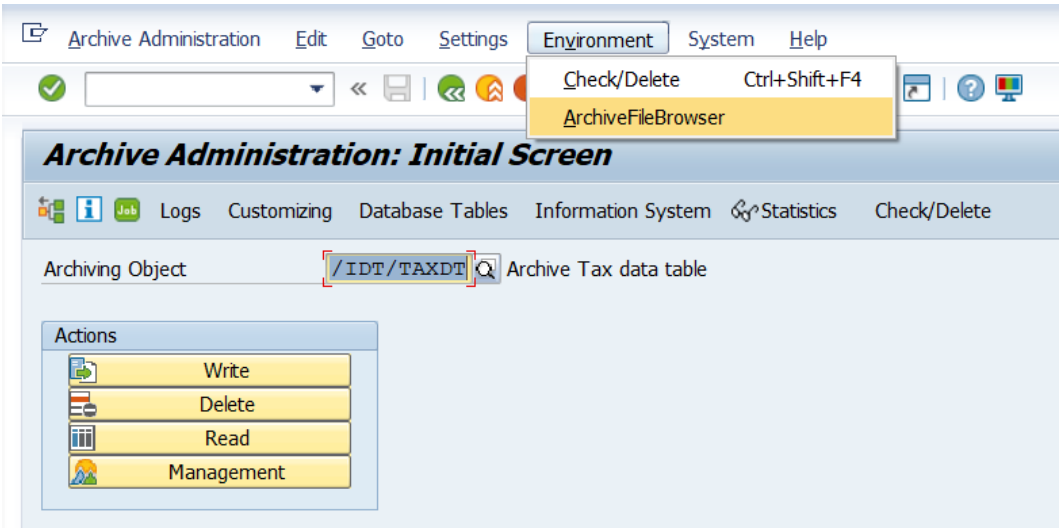


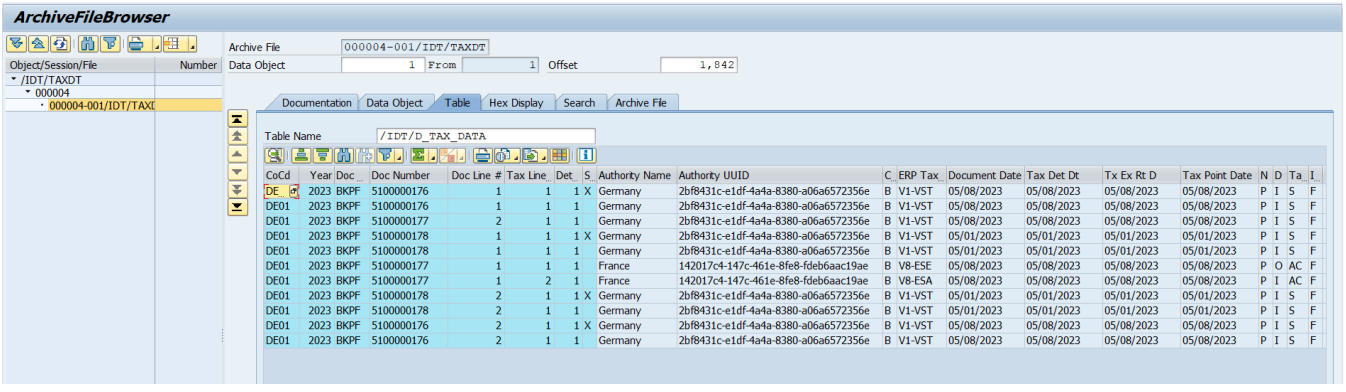
The job log shows the path where the archive data is written.

JobName	Spool	Job doc	Job CreatedB	Status	Start date	Start Time	Duration(sec.)	Delay	Cli	Reason for Delay
ARV_/IDT/TAXDT_WRI20230628191012			VISHNUV	Finished	06/28/2023	19:10:12	2	0	800	
*Summary							2	0		

Date	Time	Message text	Message class	Message no.	Message type
06/28/2023	19:10:12	Job ARV_/IDT/TAXDT_WRI20230628191012 19101200 started	00	516	S
06/28/2023	19:10:12	Step 001 started (program /IDT/TAXDATA_WRI, variant WRITE_VARIANT, user ID VISHNUV)	00	550	S
06/28/2023	19:10:12	Archiving session 000004 is being created	BA	276	S
06/28/2023	19:10:12	Path: D:\usr\sap\HS4\SYS\global\	BA	160	S
06/28/2023	19:10:12	Name for new archive file: BC_~IDT~TAXDT_20230628_191012_0.ARCHIVE	BA	137	S
06/28/2023	19:10:12	9 % (1 of 11) of the individual Tax Data were archived	KEN_01	004	S
06/28/2023	19:10:14	Job finished	00	517	S

The Archived data can be viewed from transaction SARA→Environment→ArchiveFileBrowser

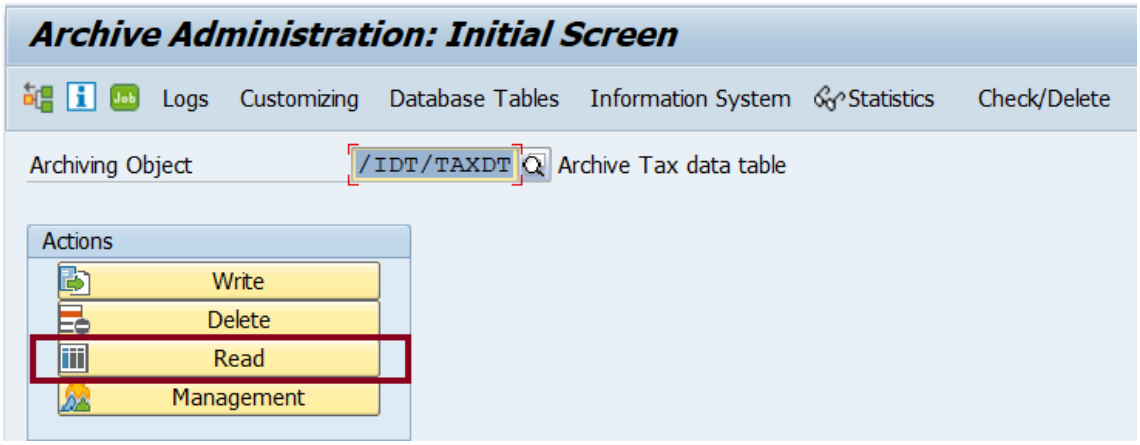




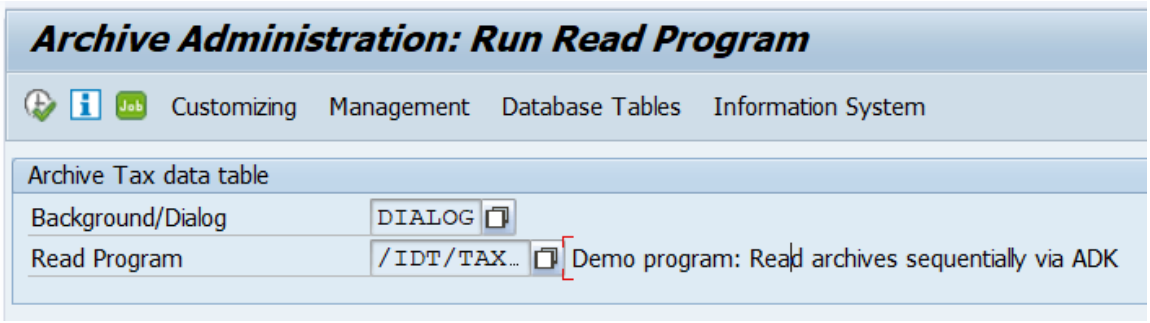
READ PROCESS:

The archived data can be read through read operation:

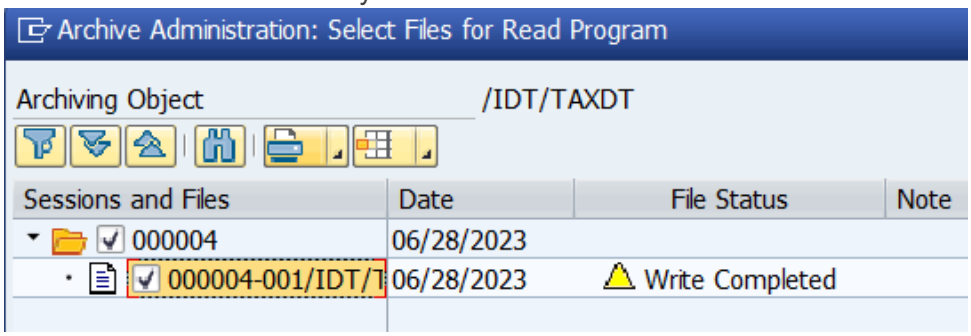
Click on ‘Read’



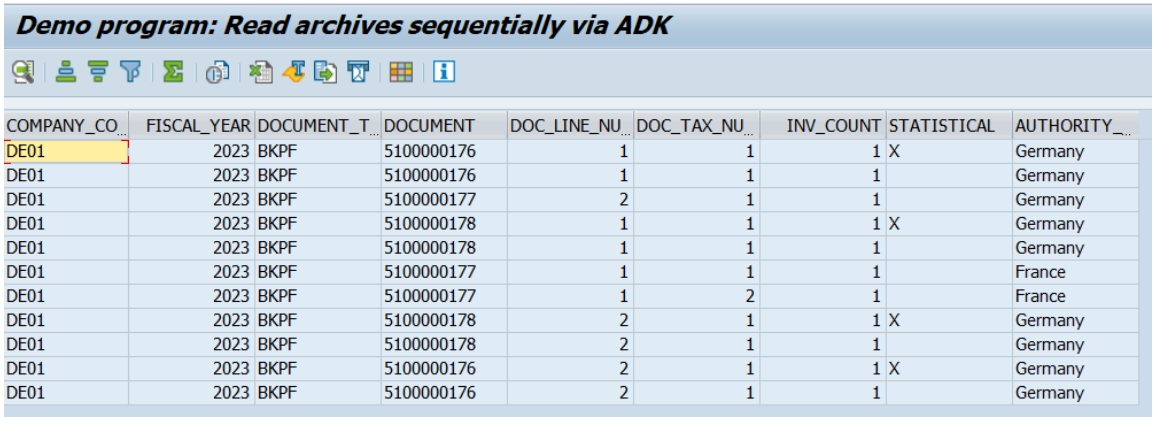
Click on Execute



Select the session for which you want to read the data from and click ok.



Data is fetched as below.

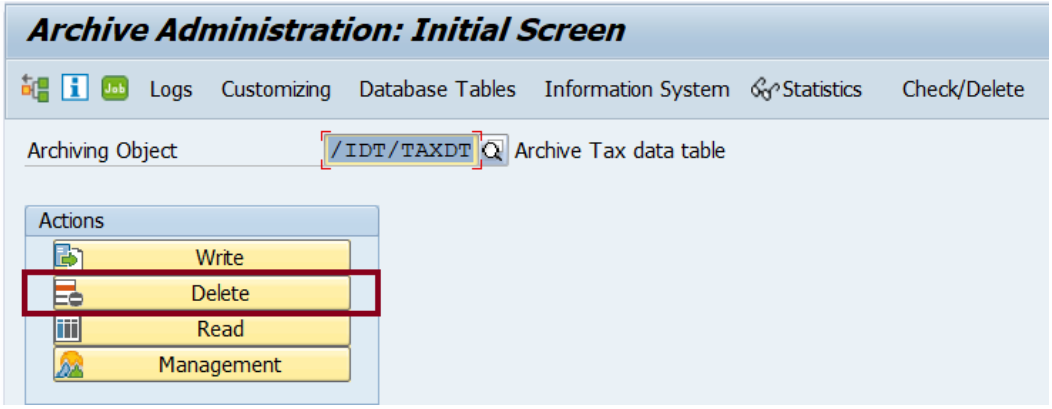


COMPANY_CO	FISCAL_YEAR	DOCUMENT_T	DOCUMENT	DOC_LINE_NU	DOC_TAX_NU	INV_COUNT	STATISTICAL	AUTHORITY_
DE01	2023	BKPF	5100000176	1	1	1	X	Germany
DE01	2023	BKPF	5100000176	1	1	1		Germany
DE01	2023	BKPF	5100000177	2	1	1		Germany
DE01	2023	BKPF	5100000178	1	1	1	X	Germany
DE01	2023	BKPF	5100000178	1	1	1		Germany
DE01	2023	BKPF	5100000177	1	1	1		France
DE01	2023	BKPF	5100000177	1	2	1		France
DE01	2023	BKPF	5100000178	2	1	1	X	Germany
DE01	2023	BKPF	5100000178	2	1	1		Germany
DE01	2023	BKPF	5100000176	2	1	1	X	Germany
DE01	2023	BKPF	5100000176	2	1	1		Germany

DELETE PROCESS:

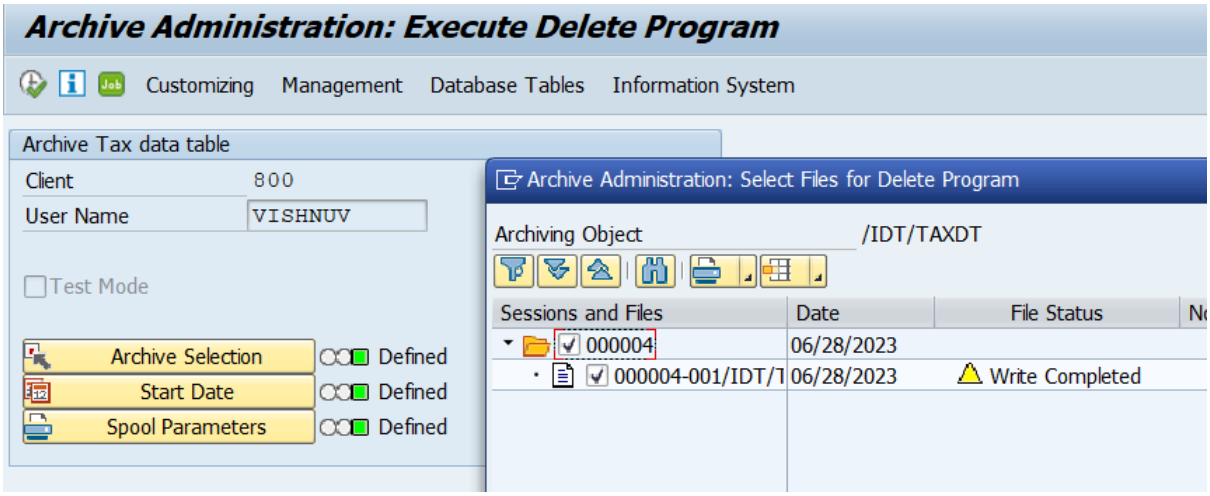
Until previous step, the data was archived but not deleted from the /IDT/D_TAX_DATA table.

Delete – it will delete the data from table based on already archived data.

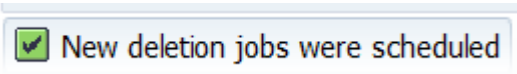


Deletion can be executed in test mode or production mode.

After Archive selection, start date and Spool parameters are defined, the deletion can be executed.



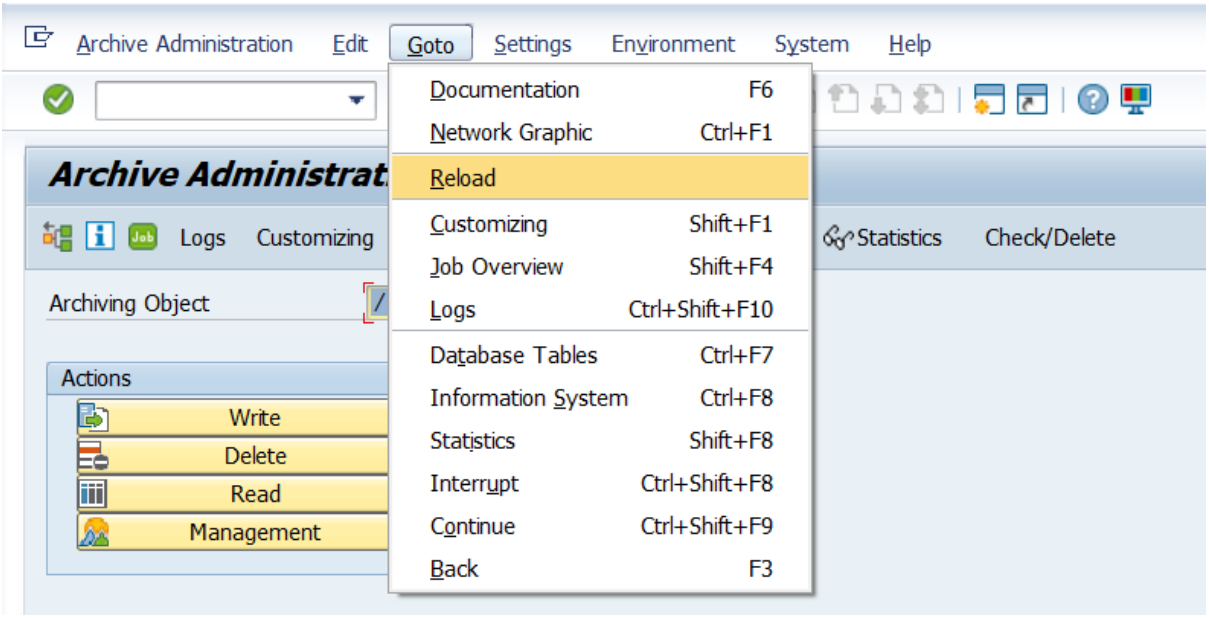
Message will be displayed once the deletion jobs are scheduled.



Once the job is successfully completed, the data will be deleted from the table.

RELOAD PROCESS:

The deleted in the prior example can be reloaded back to the table using ‘Reload’ option.

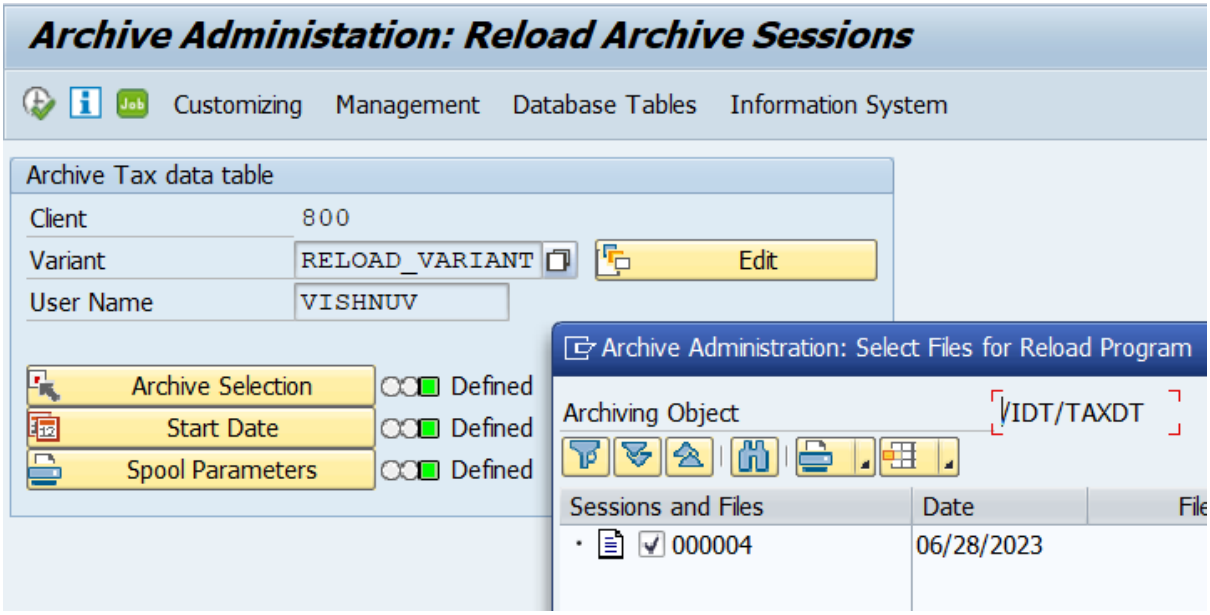
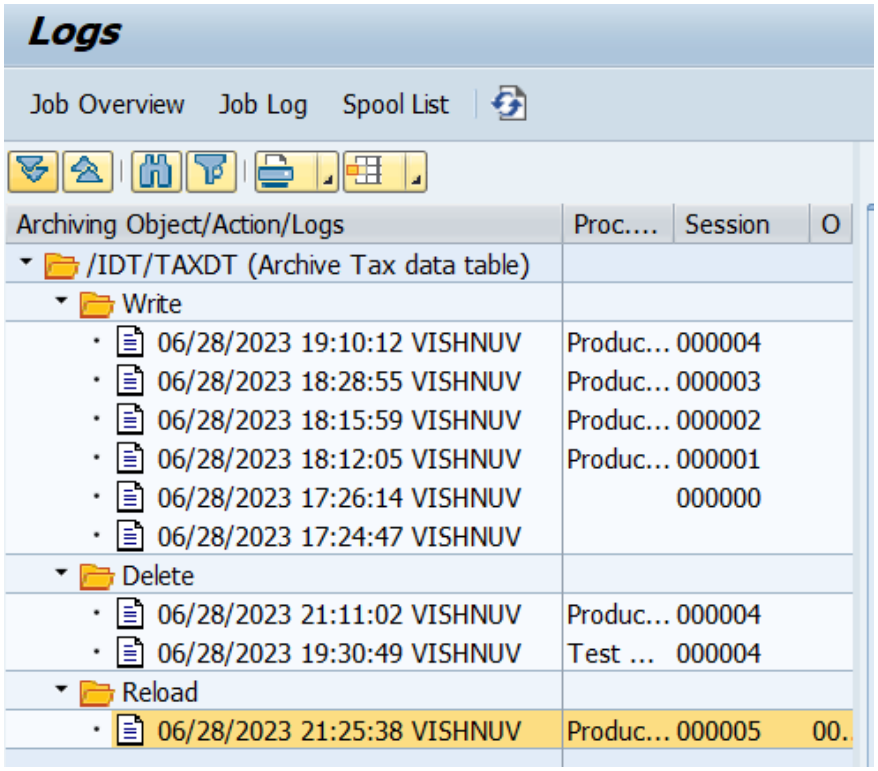


Reload also needs test mode variant and production variant similar to Deletion process.

Note: Delete and reload can be done only for the entries archived which can be seen from Read Operation.

Select the respective Sessions and Files to be reloaded using Archive selection.

Once all the parameters are set and executed, the deleted data will be reloaded back to the tables.



The logs and job logs for various runs can be seen by clicking the ‘Logs’ button in the transaction ‘SARA’.