Syniti Solutions

S/4 HANA Right Sizing Analysis Software

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Overview

SAP S/4 HANA is revolutionary. Its in-memory platform, real-time analytics and applications deliver unrivalled speed, efficiency, and scale leading to significant business benefits.

Without effective data management, the potential benefits of migrating to S/4 HANA can be reduced or even lost.

Right Sizing for SAP S/4 HANA streamlines the data you put into S/4 HANA, to ensure it runs simply, powerfully, and efficiently.

If you are planning to use SAP Business Suite on S/4 HANA, our analysis software will help to right size your data prior to your migration.

Our S/4 HANA Right Sizing Analysis software will help you to:

- Evaluate all your Business Suite data
- Identify old or infrequently accessed data for archiving
- Test 'what if' scenarios to confirm what data can be safely deleted
- Accurately specify your S/4 HANA appliance requirements

By streamlining your data:

- The cost of migrating to S/4 HANA will be reduced
- Ongoing hardware costs will be significantly lower

Analysis Software

Syniti provide the analysis software through the following SAP transports.

Transport 1: BOA NAMESPACE (RD2K900018)

This transport creates the /BOA/ SAP Namespace Object that is used by subsequent namespace transports. Strictly speaking, this transport only needs to be installed if the other transport fails due to permission issues that prevent them from creating the namespace.

This transport is included with the Stewardship Tier installation and is installed here:

{Installation Directory}\BOA\DSP\Web\UserArea\0151a30b-2dd0-48ae-823dd378e1ff5c05\SAP_Transports\Namespace\

- File 1 - K900018.RD2
- File 2 - R900018.RD2

Transport 2: Syniti Right Sizing DCSK900348

This transport is included with the Stewardship Tier installation and is installed here:

{Installation Directory}\BOA\DSP\Web\UserArea\0151a30b-2dd0-48ae-823dd378e1ff5c05\SAP_Transports\Namespace\RightSize

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- File 1 - K900348.DCS
- File 2 - R900348.DCS

BOA Namespace Transport (RD2K900018)

Syniti Right Sizing Transport (DCSK900348)

This transport contains objects related to Database Analysis features and Archiving features.

Packages

- /BOA/ARCHIVE
- /BOA/DSP_PROT
- /BOA/RFH
- /BOA/RFH_ANALYZER
- /BOA/RFH_BASIS
- /BOA/RFH_REPORTING_PROT

Business Object

- /BOA/DSP

Tables

- /BOA/DSP_CUST_RS
- /BOA/DSP_CUST_TC
- /BOA/DSP_GEO
- /BOA/DSP_GEO_OBJ
- /BOA/DSP_LOG
- /BOA/DSP_OBJ
- /BOA/DSP_RULE
- /BOA/DSP_RULECRT
- /BOA/DSP_RULEIMP
- /BOA/DSP_RULETY
- /BOA/RFH_M_MDIS2
- /BOA/RFH_P_AOSIZ
- /BOA/RFH_P_DB
- /BOA/RFH_P_DBSIZ

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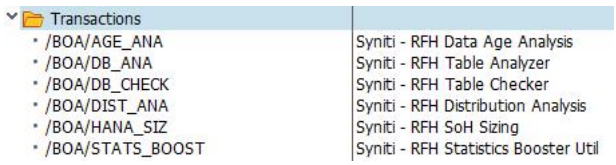
- /BOA/RFH_P_DISK
- /BOA/RFH_P_DISTC
- /BOA/RFH_P_DISTT
- /BOA/RFH_P_ERROR
- /BOA/RFH_P_M1SIZ
- /BOA/RFH_P_MDIS2
- /BOA/RFH_P_MDIST
- /BOA/RFH_P_MEM
- /BOA/RFH_P_SUGG
- /BOA/RFH_P_TDIST
- /BOA/RFH_P_TEST
- /BOA/RFH_CONST

Programs

Program	Description
/BOA/RFH_PROT_DATA_AGE	Data Age Analysis – Calculate Distribution of records per Module and Period (Year and Month). Running this report will populate table /BOA/RFH_P_MDIST.
/BOA/RFH_PROT_DIST_ANA	Data Age Analysis – Calculate Distribution of records per Module, Field and Value. Running this report will populate table /BOA/RFH_P_MDIST.
/BOA/RFH_PROT_STATS_BOOST	Statistics Booster – Multiply or Divide the values of the collected statistics by a chosen factor. The tables affected are /BOA/RFH_P_DB, /BOA/RFH_P_DBSIZ, /BOA/RFH_P_DISTT, /BOA/RFH_P_AOSIZ, /BOA/RFH_P_M1SIZ,
/BOA/RFH_PROT_TABLE_ANA	Table Analysis – Calculate size of Tables, Distribution of records per Table, Field and Value, and Module Size. Running this report will update tables: /BOA/RFH_P_DBSIZ, /BOA/RFH_P_DISTT, /BOA/RFH_P_M1SIZ.
/BOA/RFH_PROT_TABLE_CHECK	Table Check Report – Simple Report to expose the data collected during the run of other /BOA/RFH_PROT* programs.
/BOA/RFH_PROT_ZNEWHDB_SIZE	Estimates the memory requirement in HANA of non-HANA databases. When run on HANA, size the database using real memory consumption values.

Right Sizing Analysis



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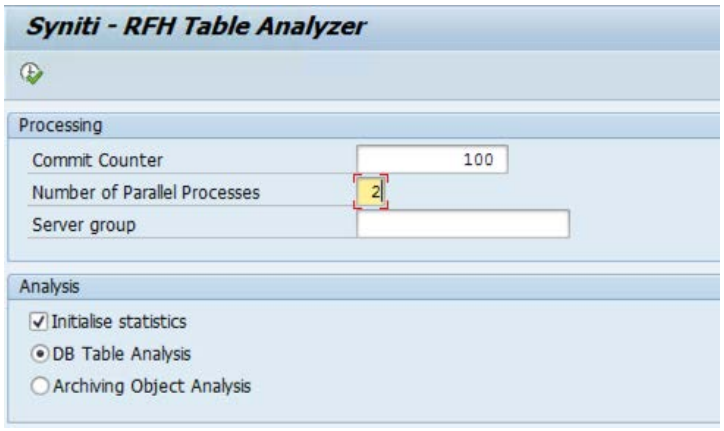
Database Table Analysis

The database table analysis can be executed using transaction /BOA/DB_ANA.

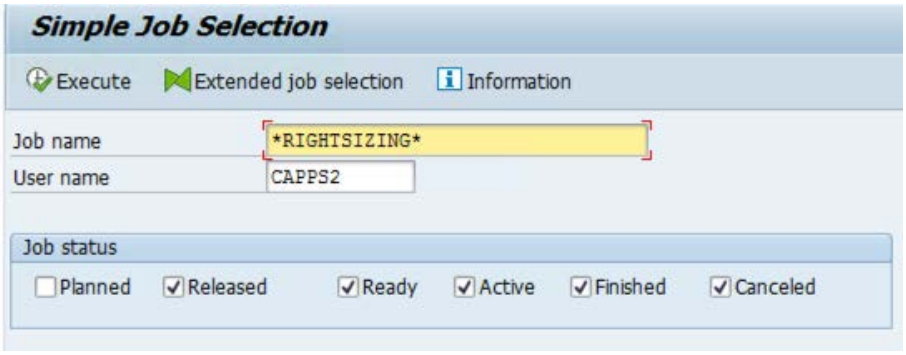
1. In the **Commit Counter** field, leave the default value of 100.
2. In the **Number of Parallel Processes** field enter the number of background jobs to be used for analyzing all the database tables. The available background slots for the system can be obtained in transaction **SM51.**

NOTE: It is recommended to keep at least two slots free during the Right Size analysis.

3. Leave the **Server group** field blank if unknown or if there is just one server available. **NOTE**: This is the machine that will run the jobs.
4. Check the **Initialize statistics** check box.
5. Click the **DB Table** Analysis option.
6. Click **Execute**. This will release the background processes.



Go to **SM37** to view the background processes.



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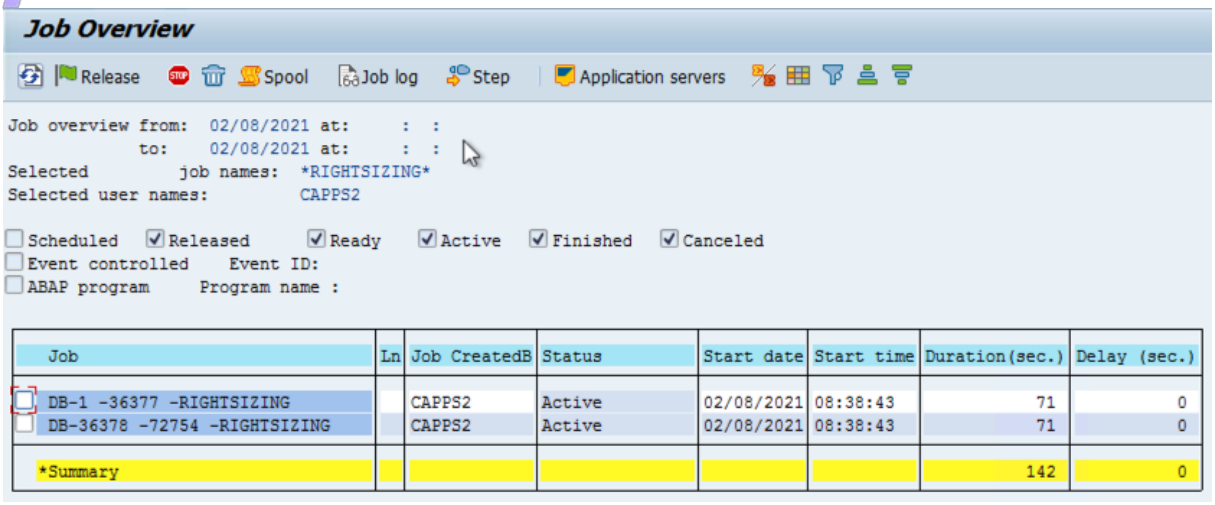
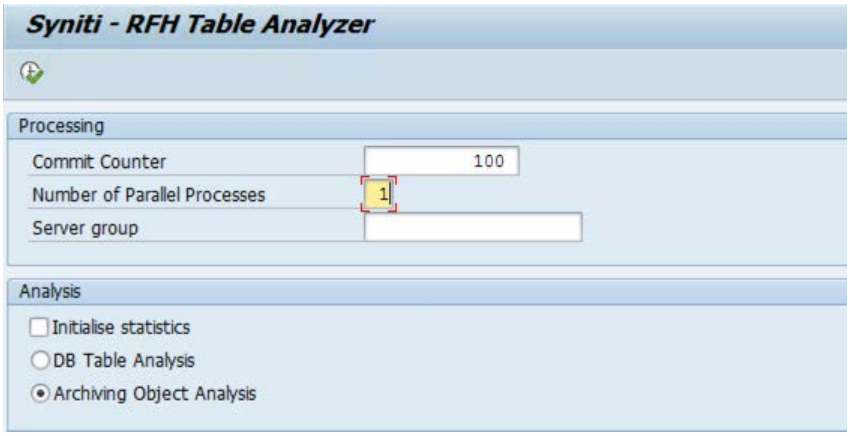


These jobs can be interrupted at any time, as new DB Table Analysis jobs would re-start the table processing where it was left off.

Archiving Object Analysis

Once the Database Analysis is completed, the 'Archiving Object Analysis' can be run. This can be done using transaction /BOA/DB_ANA.

1. Leave the default value of 100 in the **Commit Counter** field.
2. Enter **1** in the **Number of Parallel Processes** field. This analysis type cannot be split into multiple background processes.
3. Leave the **Server group** field blank if unknown or if there is just one server available. **NOTE**: This is the machine that will run the jobs.



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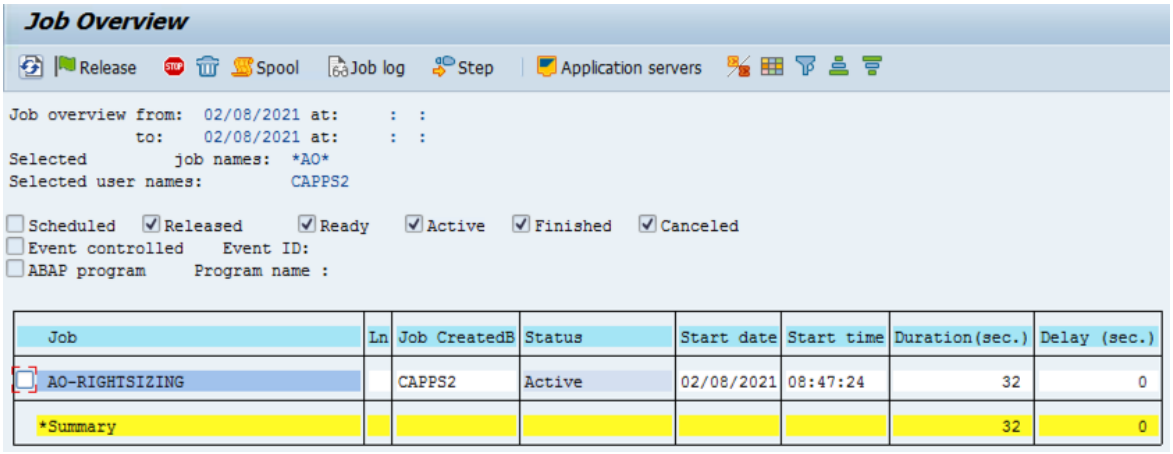
Go to **SM37** to view the background process.

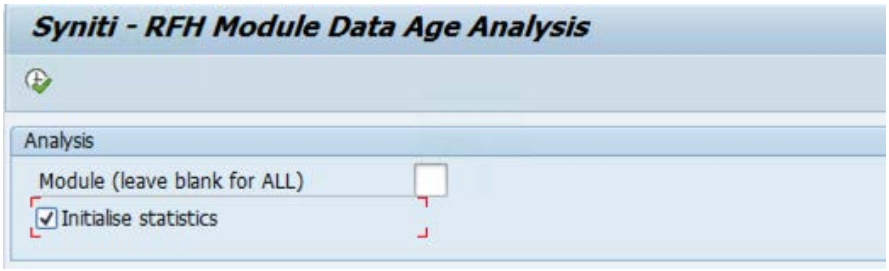


Data Age Analysis

The Data Age Analysis can be executed using transaction /BOA/AGE_ANA.

In the **Module (leave blank for ALL)** list box, leave the box blank for all modules or select a specific module.

Check the **Initialise Statistics** check box and schedule the program to run in the background (press F9 or select **Program > Run in background**).Multiple jobs will be triggered to run in parallel (one per SAP module).



To run a program in background, send its output to a default spool and start immediately.

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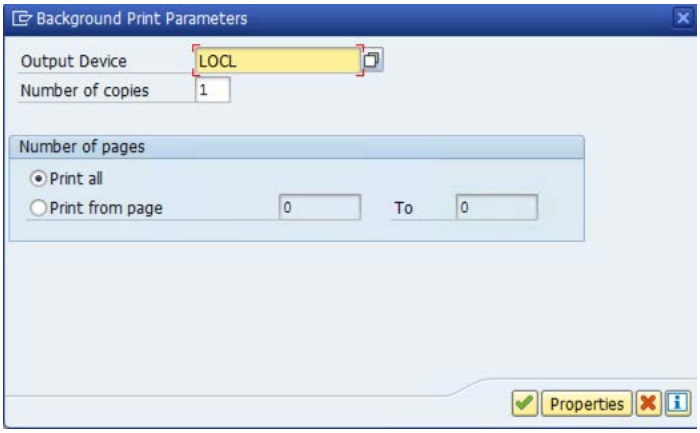

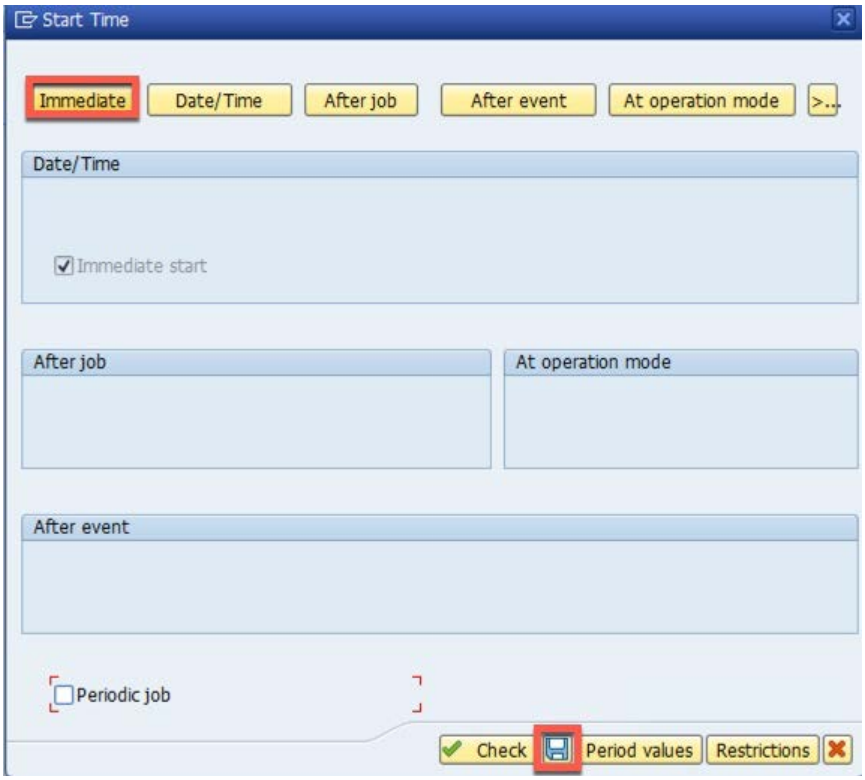

Go to SM37 to view the background process.

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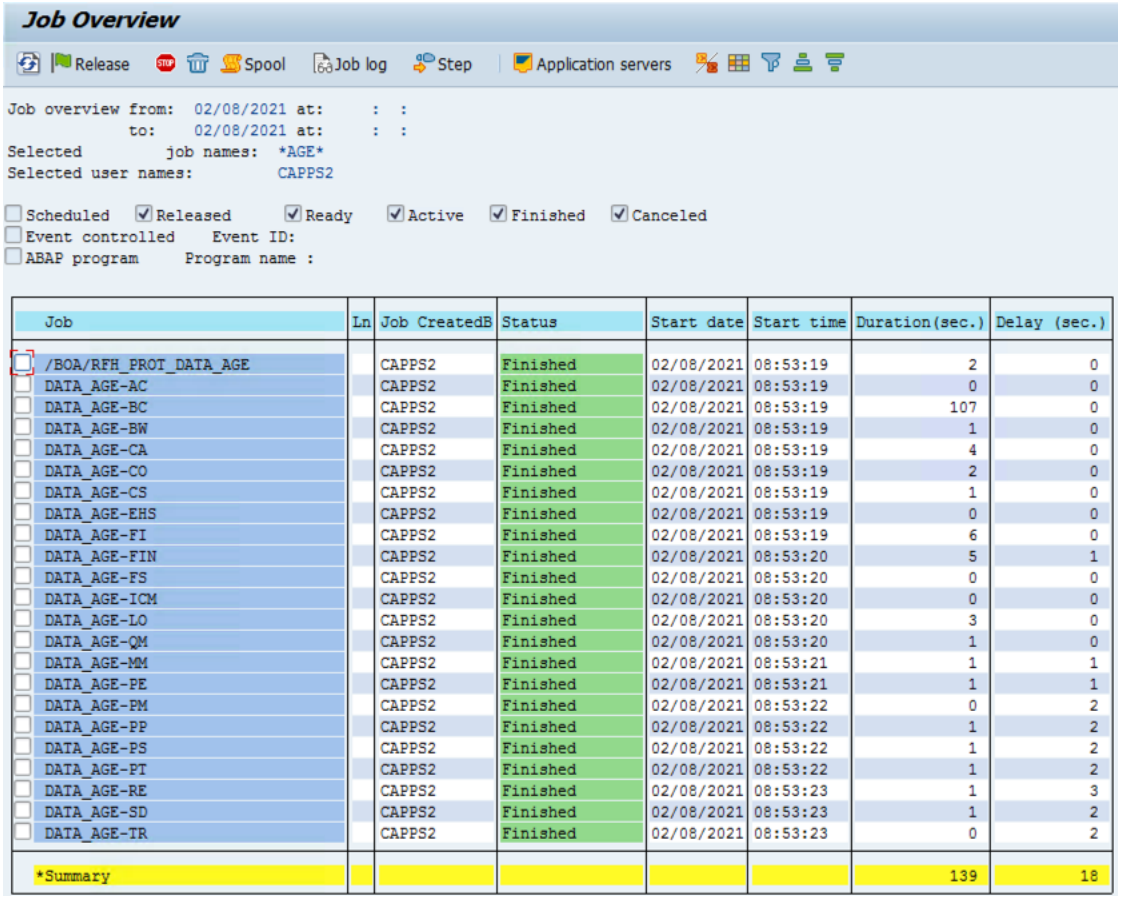


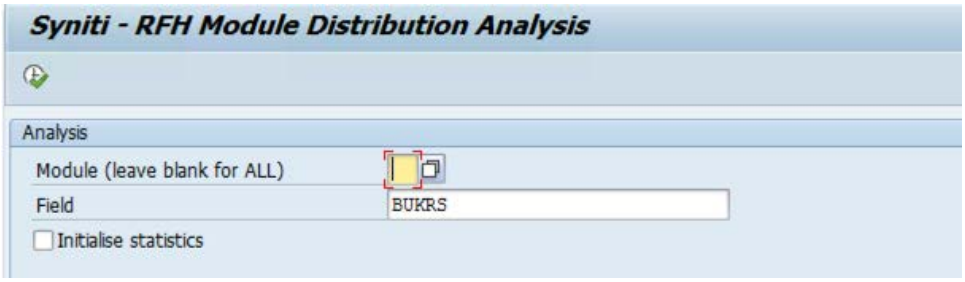
Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
/BOA/RFH_PROT_DATA_AGE		CAPPS2	Finished	02/08/2021	08:53:19	2	0
DATA_AGE-AC		CAPPS2	Finished	02/08/2021	08:53:19	0	0
DATA_AGE-BC		CAPPS2	Finished	02/08/2021	08:53:19	107	0
DATA_AGE-BW		CAPPS2	Finished	02/08/2021	08:53:19	1	0
DATA_AGE-CA		CAPPS2	Finished	02/08/2021	08:53:19	4	0
DATA_AGE-CO		CAPPS2	Finished	02/08/2021	08:53:19	2	0
DATA_AGE-CS		CAPPS2	Finished	02/08/2021	08:53:19	1	0
DATA_AGE-EHS		CAPPS2	Finished	02/08/2021	08:53:19	0	0
DATA_AGE-FI		CAPPS2	Finished	02/08/2021	08:53:19	6	0
DATA_AGE-FIN		CAPPS2	Finished	02/08/2021	08:53:20	5	1
DATA_AGE-FS		CAPPS2	Finished	02/08/2021	08:53:20	0	0
DATA_AGE-ICM		CAPPS2	Finished	02/08/2021	08:53:20	0	0
DATA_AGE-LO		CAPPS2	Finished	02/08/2021	08:53:20	3	0
DATA_AGE-QM		CAPPS2	Finished	02/08/2021	08:53:20	1	0
DATA_AGE-MM		CAPPS2	Finished	02/08/2021	08:53:21	1	1
DATA_AGE-PE		CAPPS2	Finished	02/08/2021	08:53:21	1	1
DATA_AGE-PM		CAPPS2	Finished	02/08/2021	08:53:22	0	2
DATA_AGE-PP		CAPPS2	Finished	02/08/2021	08:53:22	1	2
DATA_AGE-PS		CAPPS2	Finished	02/08/2021	08:53:22	1	2
DATA_AGE-PT		CAPPS2	Finished	02/08/2021	08:53:22	1	2
DATA_AGE-RE		CAPPS2	Finished	02/08/2021	08:53:23	1	3
DATA_AGE-SD		CAPPS2	Finished	02/08/2021	08:53:23	1	2
DATA_AGE-TR		CAPPS2	Finished	02/08/2021	08:53:23	0	2
*Summary						139	18

Distribution Analysis

The Distribution Analysis can be executed using transaction /BOA/DIST_ANA.

It is recommended to run the program at least with 'BUKRS' – Company Code and 'WERKS' - Plant fields, although it can be run with any other field that might be helpful to analyze the system's data (e.g., 'VKORG' – Sales Org).

After selecting an input, schedule the program to run in the background (press F9 or select **Program > Run in background**). Multiple jobs will be triggered in parallel (one per SAP module and field).



S/4 HANA Sizing Analysis

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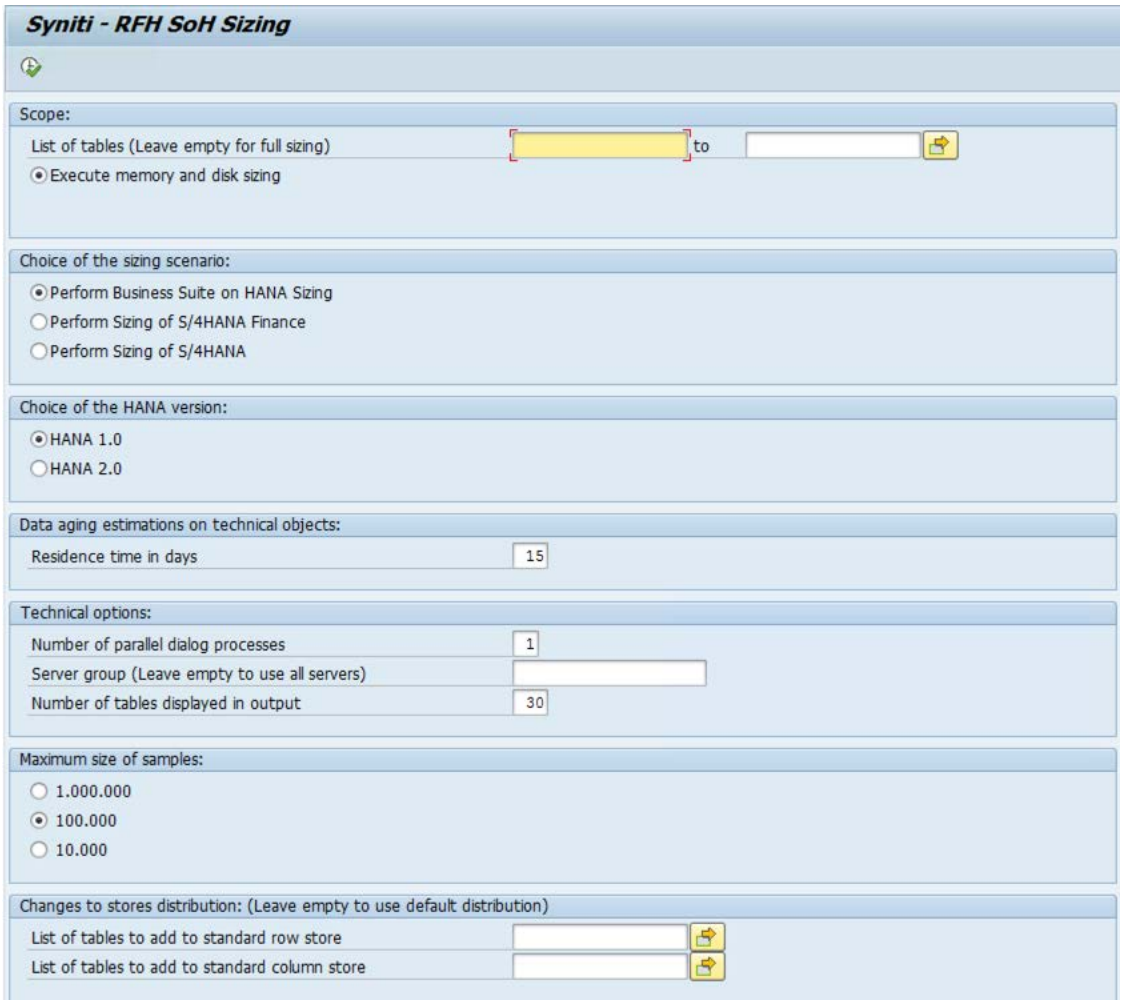
The SAP S/4 HANA Sizing analysis has no dependencies with previous Archiving Object analysis and can be run in parallel. This program can be run using transaction /BOA/HANA_SIZ.

Select the Sizing scenario that suits your migration: Business Suite on HANA or S/4HANA. Then set the number of processes that will perform the table analysis; note that these processes would run split in foreground threads instead of background.

Then press F9 or select **Program > Run in background**.



To run a program in background, send its output to a default spool and start immediately.

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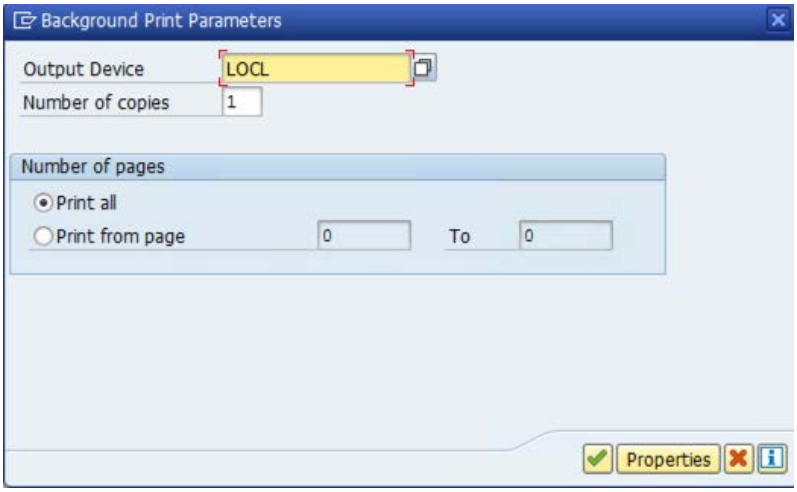

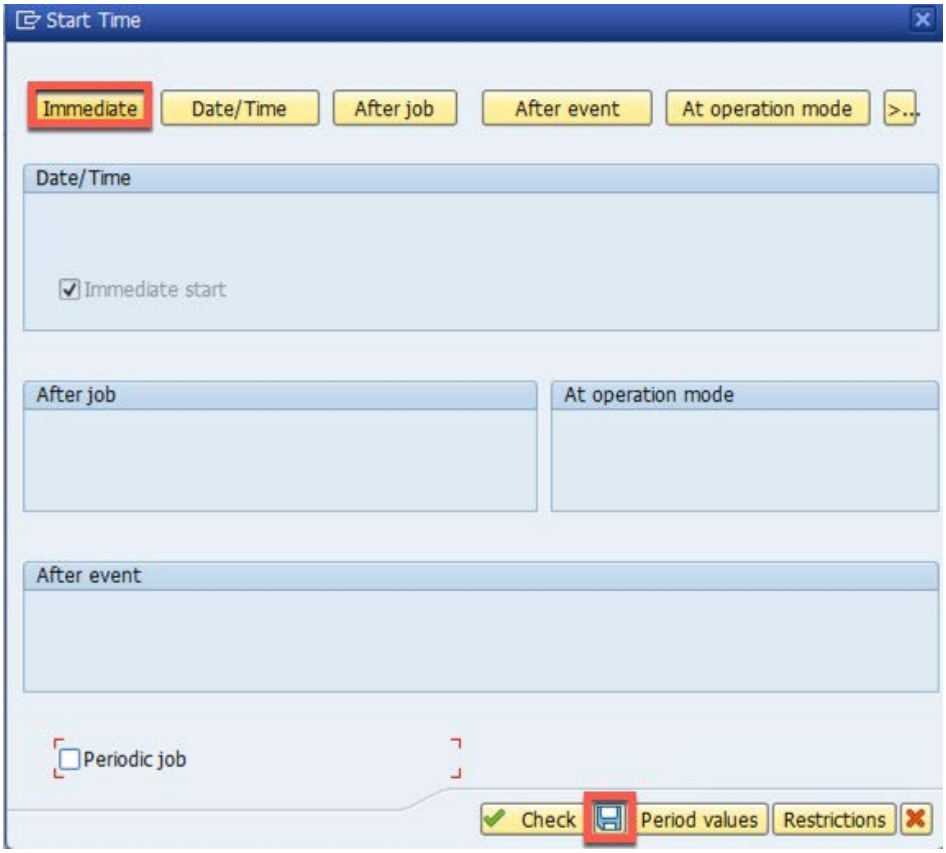

Go to **SM37** to view the background process.

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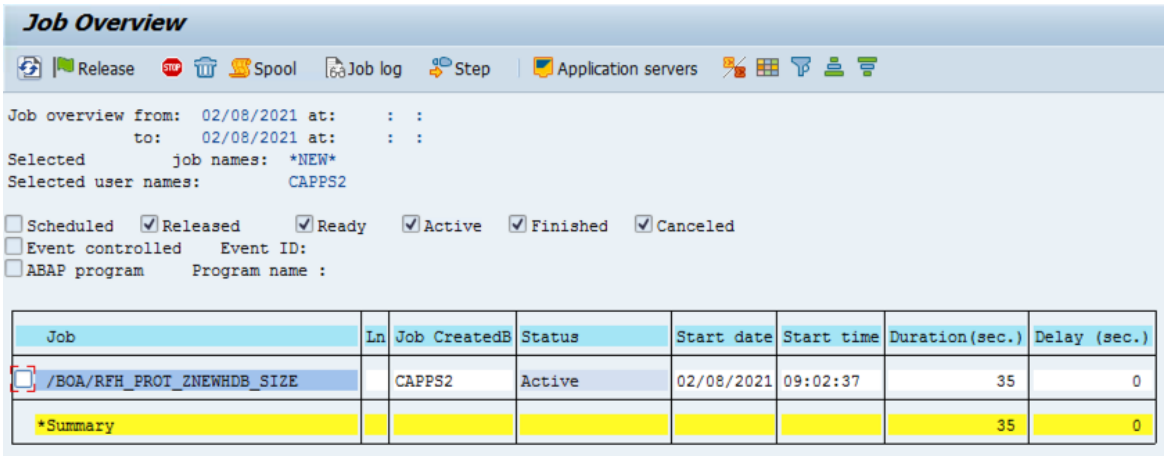

Job Overview

Release | Spool | Job log | Step | Application servers

Job overview from: 02/08/2021 at: : :
to: 02/08/2021 at: : :
Selected job names: *NEW*
Selected user names: CAPPS2

☐ Scheduled ☑ Released ☑ Ready ☑ Active ☑ Finished ☑ Canceled
☐ Event controlled Event ID:
☐ ABAP program Program name :

Job	Ln	Job CreatedB	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
/BOA/RFH_PROT_ZNEWHDB_SIZE		CAPPS2	Active	02/08/2021	09:02:37	35	0
*Summary						35	0

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