

Målsetting

- o Bruk av Spectral Core Full Convert (SCFC) for uttrekk av SIARD 2.1 arkivpakker (godkjent arkivformat 01.01.2018)
- o SCFC v18.10.1489 (64-bit) fra 05.10.2018 brukt i veiledning med eksempler under

Merknader

- o SCFC støtter migrering (eksport og import) av et stort antall databaseformater.
- o Verktøyet er lisensiert, profesjonelt, enkelt å bruke, har høy suksessrate og god support.
- o Mest vanlige databaseplattformer er MS SQL, Oracle, MySQL, PostgreSQL, Access.
- o Støtter også andre brukte eksportformater til filer som Paradox og dBase, samt generelt ODBC.
- o Eksportformat SIARD 2.1 (fra v18.08.1475 rel 16.08.2018 og før dette SIARD 2.0).
- o Importformat SIARD 1.0, 2.0 og 2.1.
- o Vær nøyne med å "Save" lagre prosjektet ved endret logfil eller annet, fordi SCFC ikke viser at noe er endret "Dirty" flag for å vise endringer (typisk (*) stjerne til høyre for "Save" vil bli implementert etter hvert).
- o Vær nøyne med å sjekke alle elementer "Source", "Target" Siard-fil, log-filer hvis "Save as" brukes fra et eksisterende / nylig kjørt prosjekt. Typisk klikke opp i katalogvalg under filvalg windows-dialog osv. Se eksempl B) SCFC demo MySQL testdb02 under for en detaljert veiledning på dette.

Forutsetninger

- o Administrator-tilgang til egen lokal PC
- o Tilstrekkelig bruker-tilgang for sql-tilkobling til ønsket database (plattform-, database- og bruker-spesifikk)

Linker

Spectral Core Full Convert (SCFC) lisensiert programvare <https://www.spectralcore.com/fullconvert>

Tilgjengelig demo-lisens 30 dager (ikke full funksjonalitet, bla. erstatter en del tabellinfo med dummydata).

Ved bestilling klikk velg "Full Convert Enterprise" til høyre "Buy now" (ikke "Subscription" til venstre")

Klikk så knapp "I have coupon code", skriv inn "KDRS" og klikk "Apply" knapp for å få 10% rabatt.

Dette vises med "Using a 10% off coupon code" og pris \$629 i stedet for \$699.

Må betales med kredittkort.

Changelog

<https://www.spectralcore.com/fullconvert/changelog>

Bruk alltid siste versjon av SCFC og koordinerer gjerne problemstillinger/mulig bugs med torbjorn.aasen@ikamr.no

Innhold

- 01) Deponering av SIARD-uttrekk til Depot
- 02) Elarkiv Database Demo Database top level Metadata
 - A) SCFC demo MySQL testdb01
 - B) SCFC demo MySQL testdb02
 - C) SCFC demo MySQL testdb03
 - D) SCFC demo MySQL testdb04 internal documents
 - E) SCFC demo MySQL testdb04 external documents
 - F) SCFC demo MSSQL blob03 internal documents
 - G) SCFC demo MySQL to MSSQL blob03 variants

- H) SCFC demo MSSQL blob03intC using sa SYSADMIN
- I) SCFC demo MySQL blob03intD using scfcadmin SYSADMIN
- J) Filtering SCFC Oracle multiple Databases.Tables
- K) SCFC handling conversion Table Column errors

01) Deponering av SIARD-uttrekk til Depot

Arkade 5 fra Arkivverket

Bruk alltid siste versjon av Arkade 5 fra Arkivverket ved deponering av systemuttrekk til Depot!

<http://arkade.arkivverket.no>

Katalog- og filstruktur som lastes inn i Arkade 5 og pakkes som DIAS Innleveringspakke SIP

Merk også plassering av ev. dokumenter, systemdokumentasjon og rapporter - mapper som manuelt må opprettes.

dokumenter\ --- standardiserer dedikert mappe for medfølgende dokumenter på utsiden av databasen
(valgfri)

sysdoc\ --- standardiserer dedikert mappe for medfølgende dokumentasjonsfiler (valgfri)

report\ --- standardiserer dedikert mappe for elektroniske rapporter (valgfri)

SCFC prosjektfil lagres i undermappe ..\report sammen med de automatisk utfylte loggfiler som SCFC lager (se veiledning under).

Hvis andre verktøy brukes: Før innlasting av .siard uttrekk i Arkade 5, så flyttes alle andre filer enn .siard fila til undermappe ..\report

- NB! Hvis BLOB dokumentobjekter er lagret i mappe(r) utenfor .siard, så beholdes disse mappen der de er!

- NB2! Anbefaler å la BLOB-dokumenter være internt i .siard med mindre spesielle hensyn gjør at de ønskes på utsiden.

- Det anbefales å ta skjermdump av SCFC program når dette er ferdig med suksess (eller ev. med avvik).

- Samt lagre denne mappe ..\report med samme filnavn som .siard og .fcpx prosjektfil SCFC, men i bilde arkivformat .jpg

Data (D:) > _temp2 > test > scfc-mysql-to-testdb02 > report				
	Navn	Endringsdato	Type	Størrelse
	Conversion.json	04.06.2018 16.40	JSON file	3 kB
	ConversionErrors.log	04.06.2018 16.40	Tekstdokument	0 kB
	ConversionErrorSql.log	04.06.2018 16.40	Tekstdokument	0 kB
	ConversionSql.log	04.06.2018 16.40	Tekstdokument	3 kB
	ConversionSummary.log	04.06.2018 16.40	Tekstdokument	2 kB
	ConversionWarnings.log	04.06.2018 16.40	Tekstdokument	0 kB
	scfc-mysql-to-testdb02.fcpx	04.06.2018 16.40	Full Convert project	2 kB
	scfc-mysql-to-testdb02.jpg	17.01.2018 15.25	JPG-fil	146 kB

I Arkade 5, så velger man/laster man inn innholdet i filmappen som .siard uttreksfila ligger.

- Da følger alle undermapper i uttrekket med (inklusiv mappene ..\report og ..\sysdoc som du har opprettet manuelt)

Denne PCen > Data (D:) > _temp2 > test > scfc-mysql-to-testdb02				
	Navn	Endringsdato	Type	Størrelse
	report	06.06.2018 13.03	Filmappe	
	sysdoc	06.06.2018 12.59	Filmappe	
	scfc-mysql-to-testdb02.siard	04.06.2018 16.40	SIARD-fil	26 kB

Note:

examples notation includes tool used and production database with its versions (useful for demo/debug purposes)

scfc2.1.1489 notation is optional: indicates SIARD 2.1 and SCFC v14.10.1489 used, the last 4 digits significant

mysql5.6.35 notation is optional: indicates production database MySQL v5.6.35

In general it is advisable to include the following in the .siard filename:

FFKK, system name and year from-to and/or extraction date in form yyyy-mm-dd

Example 1: 1504_Sofie_1992-2003.siard

Example 2: 1504_Sofie_2018-10-04.siard

Example 3: 1504_Sofie_1992-2003_2018-10-04.siard

KDRS Filesender

- a) KDRS KAI depot gir gjeste-token for innlevering av digitalt arkivuttrekk via sikret metode. Link sendes til mottaker pr. epost.
- b) Arkivskaper lagrer hovedmappa til uttrekket inn i en kryptert .zip fil.
- c) Kryptert .zip fil sendes/leveres inn til mottak depot KAI via KDRS Filesender lenken.
- d) Depot KAI bekrefter mottak av uttrekket via KDRS Filesender.
- e) Arkivskaper sender passord til innlevert kryptert .zip til depot KAI etter at pakken er bekreftet mottatt av depot KAI.
- f) Depot KAI legger uttrekket i antivirus-karantene

02) Elarkiv Database Demo Database top level Metadata

testdb01

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\scfc2.1.1489-mysql5.6.35-to-testdb01.siard

Description: testdb01 with 1 table "testtabell" and 6 rows of data

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 1995 - 1998

testdb02

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb02\scfc2.1.1489-mysql5.6.35-to-testdb02.siard

Description: testdb02 with 6 tables and total 505 rows of data, no documents

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.1999 - 31.12.2002

testdb03

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\scfc2.1.1489-mysql5.6.35-to-testdb03.siard

Description: testdb03 with 6 tables and total 37 rows of data, 9 documents with outside folder reference

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 13.12.2002 - 17.08.2008

testdb04int (| ext)

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\scfc2.1.1489-mysql5.6.35-to-testdb04int.siard

Description: testdb04 with 6 tables and total 37 rows of data, 9 documents in table BLOB col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal) | outside .SIARD in folders (external)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 18.08.2008 - 31.12.2014

testdb05int (| ext)

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\scfc2.1.1489-mysql5.6.35-to-testdb04int.siard

Description: Test 27 tables, BLOB, REFDOC, multiple columns. Extracted BLOB-documents saved inside .SIARD in folders (internal) | outside .SIARD in folders (external)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 18.08.2008 - 31.12.2014

blob01int (| ext)

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob01int\scfc2.1.1489-mysql5.6.35-to-blob01int.siard

Description: blob01 with 2 tables and total 13 rows of data, 4 documents in table BLOBS col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal) | outside .SIARD in folders (external)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.2011 - 31.12.2014

blob02int (| ext)

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob02int\scfc2.1.1489-mysql5.6.35-to-blob02int.siard

Description: blob02 with 7 tables and total n rows of data, 4 documents in table BLOBS col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal) | outside .SIARD in folders (external)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.2011 - 31.12.2014

blob03int (| ext)

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob02int\scfc2.1.1489-mysql5.6.35-to-blob02int.siard

Description: blob03 with 7 tables and total 631 689 rows of data, 28 documents in table BLOBS col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal) | outside .SIARD in folders (external)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.2011 - 31.12.2014

A) SCFC demo MySQL testdb01

A1) Create “New project” and select Source connection “MySQL”

The screenshot shows the 'Source connection' selection screen. On the left, there's a sidebar with 'Full Convert Enterprise 18.02.1422 (64-bit)' and 'Conversion project'. A 'New project' button is highlighted with a tooltip 'Set up a new conversion project.' On the right, a list of databases is shown, with 'MySQL' selected.

A2) Source parameters: Enter server, user, password, database and click “Next”

Server: **localhost**, IP-address or valid DNS-name as seen from your client computer

Username: **user01**

Password: **test**

Database: **testdb01** (can be selected from dropdown available databases or written as plain text)

Include views: [] **unchecked** (view data is saved like a table > get redundancy - only use if important to link view-data)

This screenshot shows the MySQL source connection configuration. Both sides of the comparison show identical fields: Server: localhost, Port: 3306, Username: user01, Password: ****, and Database: testdb01. The 'Optional' section at the bottom includes 'Use SSL' and 'Use SSH Tunnel' buttons. A 'Favorites' dropdown menu is open on the left, showing 'testdb01 MySQL' as a favorite.

TIP: The Favorites dropdown menu lets you Save and reuse Source connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

Click “Next” to continue to select Target.

If your Source connection fails to connect, your progress will halt and you will need to fix the Source login information.

A message box with buttons for 'Cancel', 'Back', and 'Next'. Below it, a note says 'Licensed to Torbjørn Aasen. Maintenance valid until tirsdag 8. januar 2019.'

A3) Select Target connection “SIARD”, enter top level metadata and click “Next”

Target connection: **SIARD**

The screenshot shows the 'Target connection' selection screen. On the right, a list of databases is shown, with 'SIARD' selected.

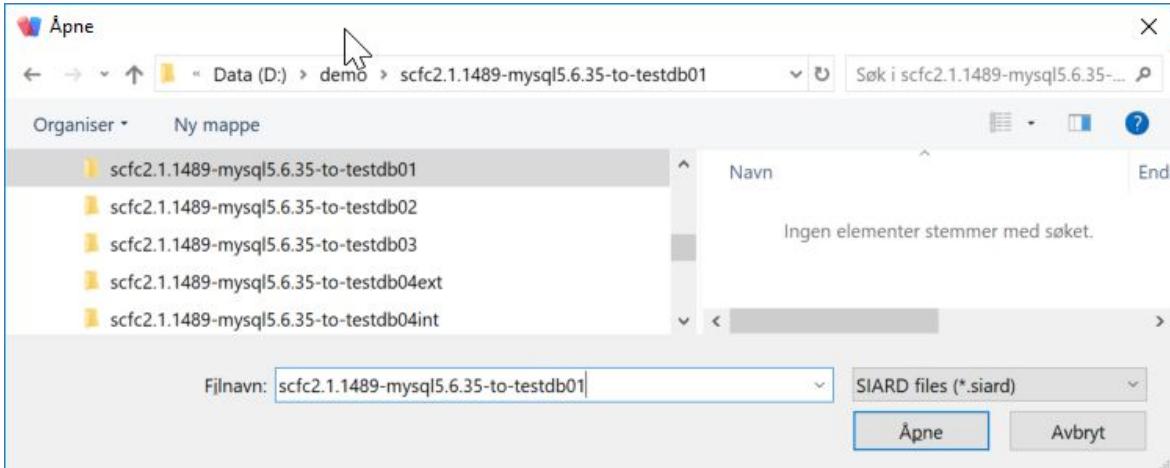
Click the “Folder” icon to the right of the “SIARD database” field select folder and filename for the .siard file.

SIARD database: 

Example is selecting folder and typing filename:

D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\scfc2.1.1489-mysql5.6.35-to-testdb01.siard

Click “Åpne” to select the Target .siard filename (you do not have to type in .siard at end)



Enter data for the remaining settings/metadata fields:

SIARD

Favorites ▾

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\scfc2.1.1489-mysql5.6.35-to-testdb01.siard 

Compression: Optimal

Description: testdb01 with 1 table "testtabell" and 6 rows of data

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 1995 - 1998

External LOB folder:

Use default external LOB folder
 Use default internal LOB folder

External LOB folder examples:

(empty entry) saves BLOBS internally in the *.SIARD file.

documents saves BLOBS externally to the "documents" folder in the current folder where *.SIARD file is created.

..\documents saves BLOBS externally to the "documents" folder in the parent folder of the current folder where *.SIARD file is created.

Compression: Optimal (default) | No compression | Fastest

Description: <Description of the meaning and content of the database as a whole> (**optional**)

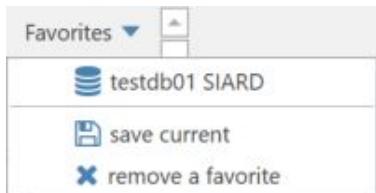
Archiver: <Name of the person who carried out the archiving of the table data from the database> (**optional**)

Archiver contact: <Contact details, telephone, e-mail, of the Archiver> (**optional**)

Data owner: <Owner of the database, Org; 15KK navn kommune eks “1504 Ålesund kommune”> (**mandatory**)

Origin time span: <Origination period of the data in the database; approximate indication in text form> (**mandatory**)

External LOB folder: <if empty all LOB elements stored inside .siard package, else in this external folder> (**optional**)



TIP: The Favorites dropdown menu lets you Save and reuse Target connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

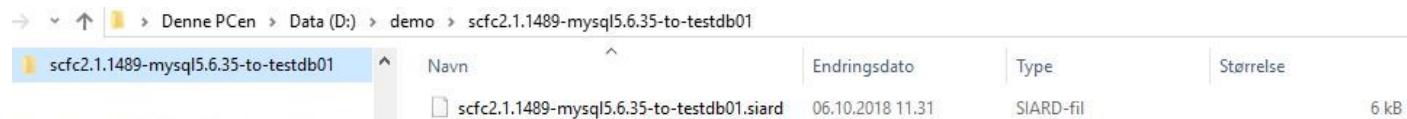
A good naming convention on .siard files and SCFC project names is recommended!

Click “Next” to continue.

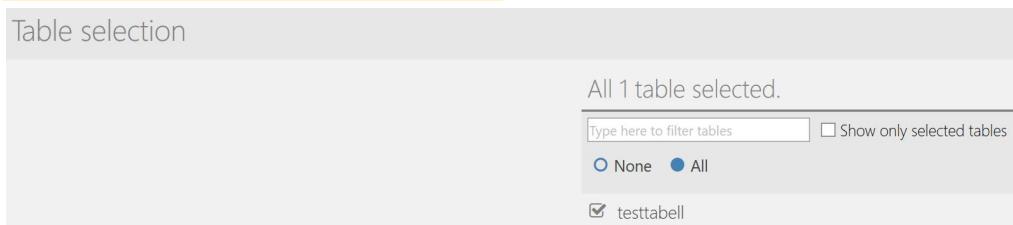
A4) Click “Yes” to create the .siard Target database file



A default .siard file is created without any data or metadata content

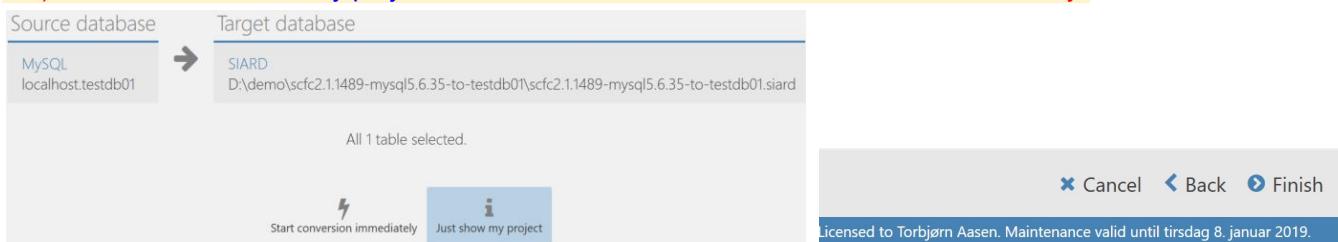


A5) Table selection - “All 1 table selected”



Click “Next” to continue.

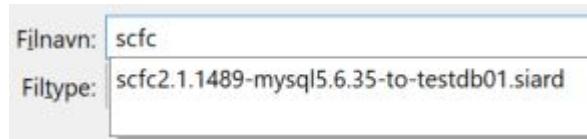
A6) NB! Click “Just show my project”, as we do NOT want to “Start conversion immediately”



Click “Finish” to go to the Project main section.

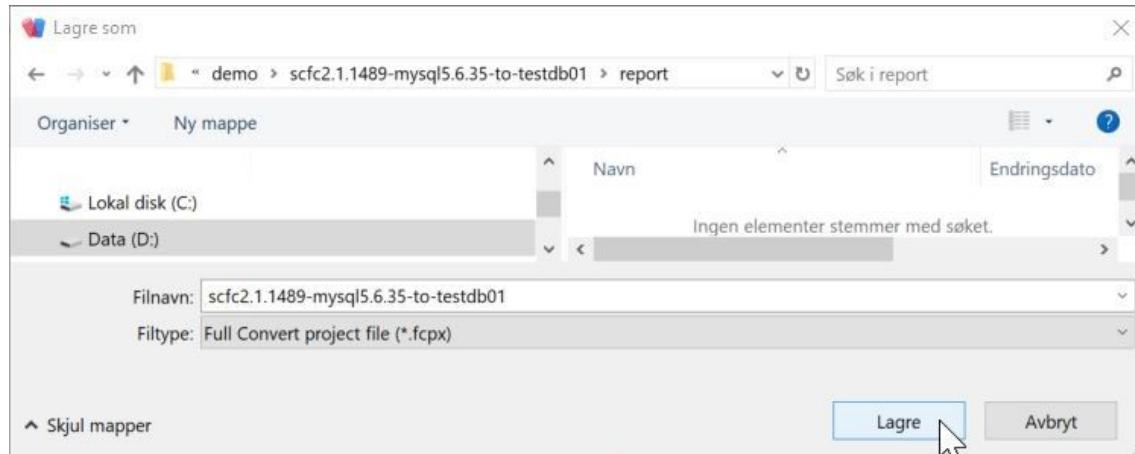
A7) Click "Save as..." to save the SCFC project file NB! Else your Project options and maybe more is lost!

Ex. start type start of .siard filename, here "scfc" in the Filnavn field, key arrow down, and remove ending .siard



NB! Next click button "Ny mappe" and create subdirectory ..\report and save the SCFC project filename there!

SCFC project filename = "..\report\scfc2.1.1489-mysql5.6.35-to-testdb01.fcpx".

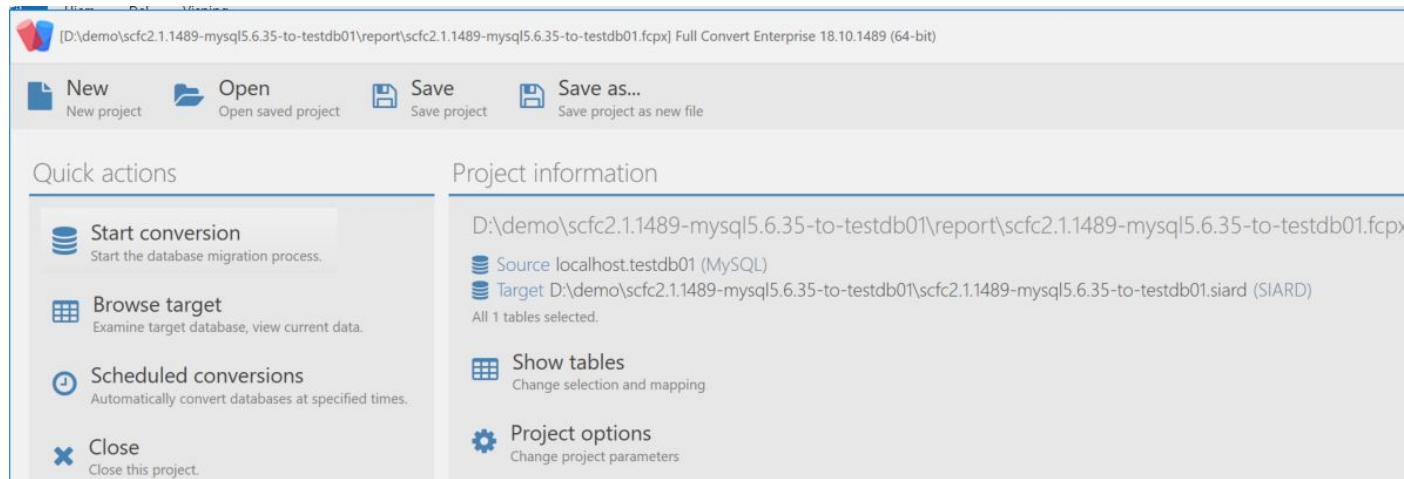


As a result the SCFC project file is saved in the ..\report subfolder, a subdirectory of where the .siard file is.



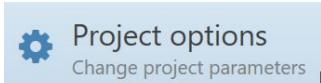
The SCFC project is saved and you can double-check the selectios as all parts are viewable:

Project folder, SCFC project file, Source database, Target .siard and number of tables selected.

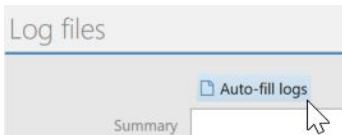


A8) Project options for enabling auto-logging

Click button “Project options” in the man section:



Click link “Auto-fill logs”

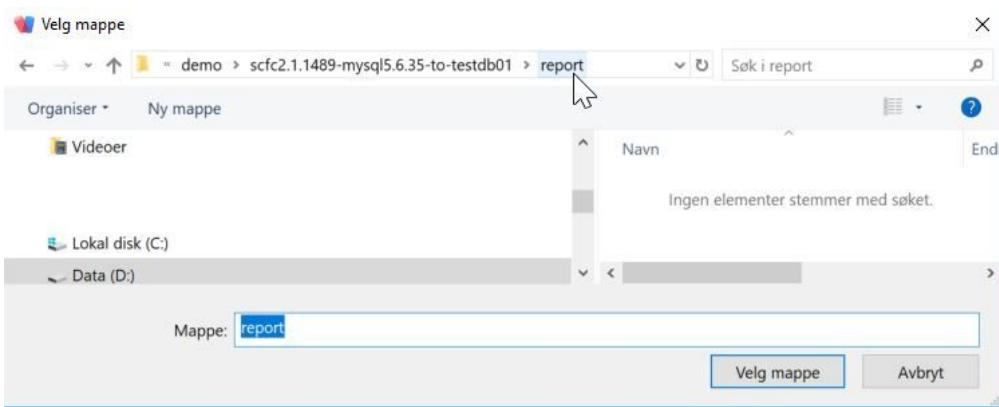


Click subfolder “report” which is shown because the SCFC project file is saved there.

NB! If SCFC Save Project As or Open Project was chosen, you must brows the folder to your correct “report” folder.

NB! If you do NOT to click “Auto-fill logs” once more in those cases, you may end up overwrite other project logs!

Click “Velg mappe” to auto-fill the log names.



The “Log files” section is auto-filled inside the SCFC project folder. NB! Double check that the path fits your project!

Project options General

Table creation: Recreate tables ▾
Data loading: Recreate data ▾
 Create indexes
 Create foreign keys

Naming

Table prefix:
Name casing: Default ▾

Log files

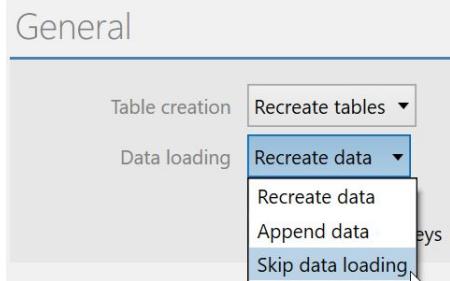
Auto-fill logs

Summary	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\ConversionSummary.log	
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\ConversionErrors.log	
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\ConversionSql.log	
Errored SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\ConversionErrorSql.log	
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\Conversion.json	
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\ConversionWarnings.log	

Option: Write metadata only into the .siard file

Project options: General section

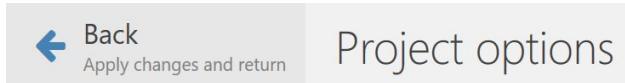
Field "Data loading", dropdown menu select "Skip data loading"



TIP: Advanced users may use the Project options section for:

Mapping, Run before conversion, Run after conversion, Databases, Console email notification, Troubleshooting

Click "Back" to return from "Project options" to the Main project window



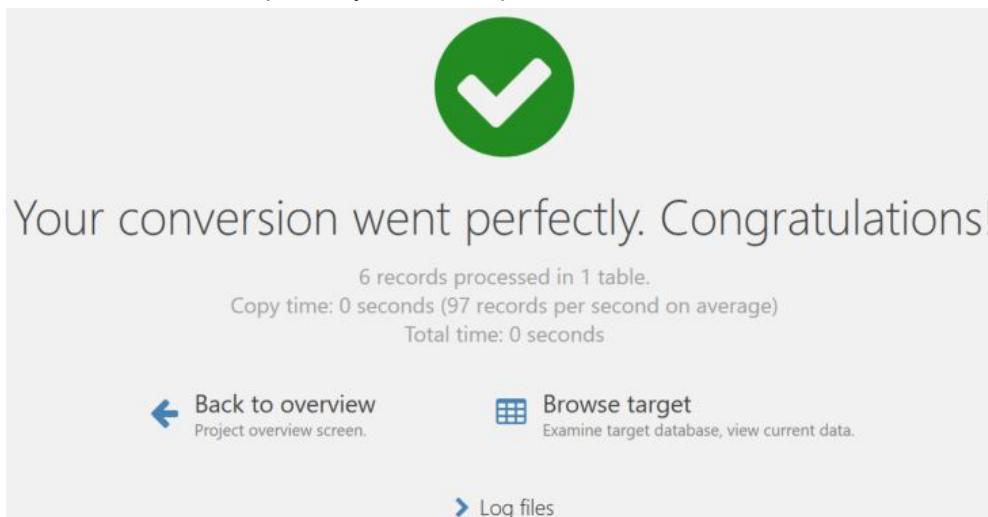
A9) Click "Save" to save the SCFC project file

NB! Else your Project options and maybe more is lost!

A10) Click "Start conversion" to start the SIARD extraction and check the progress and result status

This tiny little database exports so fast you cannot follow the table extract progression.

Your conversion went perfectly, 6 records processed in 1 table.



Your project\report folder now is filled with all the wanted logfiles (check with Windows Explorer).

NB! Both Error-logs and the Warning-log are empty because the SCFC SIARD-extraction had no errors or warnings!

Navn	Endringsdato	Type	Størrelse
Conversion.json	06.10.2018 12.53	JSON file	1 kB
ConversionErrors.log	06.10.2018 12.53	Tekstdokument	0 kB
ConversionErrorSql.log	06.10.2018 12.53	Tekstdokument	0 kB
ConversionSql.log	06.10.2018 12.53	Tekstdokument	1 kB
ConversionSummary.log	06.10.2018 12.53	Tekstdokument	2 kB
ConversionWarnings.log	06.10.2018 12.53	Tekstdokument	0 kB
scfc2.1.1489-mysql5.6.35-to-testdb01.fcpx	06.10.2018 12.53	Full Convert project	2 kB

A11) Click “[Log files](#)” and examine the successrate and possibly warnings or problems to handle
Preferably instead check the logfiles yourself using Notepad++ or similar text editors directly in the SCFC project SIARD folder. Same goes for the SQL and JSON editors (Notepad++ may be used here as well).

Conversion Summary log

Full Convert Enterprise 18.10.1489
Licensed to Torbjørn Aasen

```
[2018-10-06 12.53.57] Starting MySQL to SIARD conversion
[2018-10-06 12.53.57] Connected to databases
[2018-10-06 12.53.57] Read metadata
[2018-10-06 12.53.57] Mapped tables
[2018-10-06 12.53.57] Dropped tables (1 perfect, 0 with errors)
[2018-10-06 12.53.57] Created tables (1 perfect, 0 with errors)
[2018-10-06 12.53.57] Copied data to target tables (1 perfect, 0 with errors)
[2018-10-06 12.53.57] Created indexes (1 perfect, 0 with errors)
[2018-10-06 12.53.57] Created foreign keys (0 perfect, 0 with errors)
[2018-10-06 12.53.57] Disconnected from databases
[2018-10-06 12.53.57] Completed in 0. seconds
```

Project: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\report\scfc2.1.1489-mysql5.6.35-to-testdb01.fcpx

Source: localhost.testdb01 (MySQL)

Target: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb01\scfc2.1.1489-mysql5.6.35-to-testdb01.siard (SIARD)

Outcome: Perfect conversion, no errors

6 records processed in 1 table

Copy time: 0 seconds (97 records per second on average)

Total time: 0 seconds

Conversion Warnings log

<is empty, no warnings encountered>

Conversion Errors log

<is empty, no error encountered>

Conversion SQL log

```
CREATE TABLE "testtabel" (
    "id" INT NOT NULL DEFAULT 0,
    "tittel" VARCHAR(100) NOT NULL,
    "beskrivelse" VARCHAR(255) NULL,
    "arkivkodefra" VARCHAR(20) NULL,
    "arkivkodetil" VARCHAR(20) NULL
)
```

Conversion Error SQL log

<is empty, no error encountered>

Conversion JSON

```
{
  "Tables": {
    "testtabel": {
      "Schema": "",
      "Name": "testtabel",
      "Selected": true,
      "TargetSchema": "testdb01",
      "TargetName": "testtabel",
      "Seconds": 0.062,
      "Records": 6,
      "RecordsCopied": 6,
      "RecordsPerSecond": 96.7741935483871,
      "Valid": true,
      "Errors": []
    }
  },
  "Project": {
    "TotalTables": 1,
```

```

        "SelectedTables": 1,
        "ValidTables": 1,
        "InvalidTables": 0,
        "Records": 6,
        "RecordsCopied": 6,
        "Result": "PERFECT",
        "ResultDescription": "Perfect conversion, no errors",
        "AverageRecordsPerSecond": 97,
        "Seconds": 0.45599999999999996,
        "DataLoadSeconds": 0.062,
        "FatalError": null
    }
}

```

A12) Click “Browse target”

Click arrows at left of “testtabell” and expand “Columns (5)” and “Indexes (1)” as you please.

Click centre content “Show table data” to look into the .siard file and browse the table data saved as xml-files there.
Click “Back” when done.

NB! Large/wide tables may take a while to load!

	id	tittel	beskrivelse	arkivkodefra	arkivkodel til
1	Test tittel 1	Test tittel 1	000-000	000	
2	Test tittel 2	Test tittel 2	001-003	001	
3	Test tittel 3	Test tittel 3	100-101	101	
4	Test tittel 4	Test tittel 4	250-255	250	
5	Test tittel 5	Test beskrivelse 5	A00	B20	

A13) Click “Back” to return SCFC main project overview

Continue do any needed/wanted adjustments and re-extraction.

You must delete/move all files except the .fcpx SCFC project file to do a complete re-extraciont with adjusted setup.
Advisable to move-copy the first files/logs to compare results in the adjusted extraction, then delet them later success.

If no adjustment or re-export is needed you are done.

And can move one using the .siard extraction in your production line (Documaster Decom or import to new database).

B) SCFC demo MySQL testdb02

B1) Click “Save as...” and save your “testdb02” project as new project in a new folder [continuing project above]

- If you did not finish “testdb01” as previous step, finish it now or open it if you have it saved in earlier session
- Create your ..\report folder for “testdb02” ex. “D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb02\report”
- Save your project in that folder as “scfc2.1.1489-mysql5.6.35-to-testdb02.fcpx”, enter the filename and click “Lagre”.

B2) Change Source parameters

Click “[Source](#)” in the main Project information section and change the values accordingly and click “[Connect](#)”.

Server: [localhost](#), IP-address or valid DNS-name as seen from your client computer

Username: [user02](#)

Password: [test](#)

Database: [testdb02](#) (can be selected from dropdown available databases or written as plain text)

[Include views:](#) [] unchecked (view data is saved like a table > get redundancy - only use if important to link view-data)

Server: localhost Port: 3306
Username: user02
Password: ****
Database: testdb02
 Include views

Connect Attempt to connect now

B3) Project tables selection

Click Radio button “[All](#)” to select all 6 tables.

Click “[Back](#)” and click “[Save](#)” to make sure your Source information is properly saved.

No tables are selected. Show selected only

← Back None All Type here to filter tables

arkiv Edit
 arkivskaper Edit
 mappe Edit
 objekt Edit
 serie Edit
 stykke Edit

All 6 tables selected.

← Back None All

arkiv Edit
 arkivskaper Edit
 mappe Edit
 objekt Edit
 serie Edit
 stykke Edit

B4) Change Target parameters

Click “[Target](#)” in the main Project information section and change the values accordingly.

[Target connection SIARD section still has .siard file and metadata from testdb01 which must all be updated!](#)

You may manually edit the SIARD database path and filename or use the “Folder” icon at the right side.

Change all of the SIARD top level metadata elements to fit the new project.

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb02\scfc2.1.1489-mysql5.6.35-to-testdb02.siard

Compression: Optimal

Description: testdb02 with 6 tables and total 505 rows of data, no documents

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.1999 - 31.12.2002

External LOB folder:

Finish by click “[Connect](#)”

B5) Click “Yes” to create the .siard Target database file



Click “Save” to make sure your Target information is properly saved.

Check your new project folder “...testdb02”, a default .siard file is created without any data or metadata content

Data (D:) > demo > scfc2.1.1489-mysql5.6.35-to-testdb02 >

Navn	Endringsdato	Type	Størrelse
report	06.10.2018 13.30	Filmappe	
scfc2.1.1489-mysql5.6.35-to-testdb02.siard	06.10.2018 14.01	SIARD-fil	6 kB

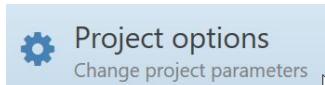
Check your the ..\report subfolder which holds the SCFC project file:

Data (D:) > demo > scfc2.1.1489-mysql5.6.35-to-testdb02 > report

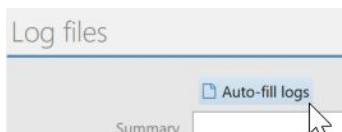
Navn	Endringsdato	Type	Størrelse
scfc2.1.1489-mysql5.6.35-to-testdb02.fcpx	06.10.2018 13.30	Full Convert project	2 kB

B6) Change Project options for enabling auto-logging

Click button “Project options” in the main section:

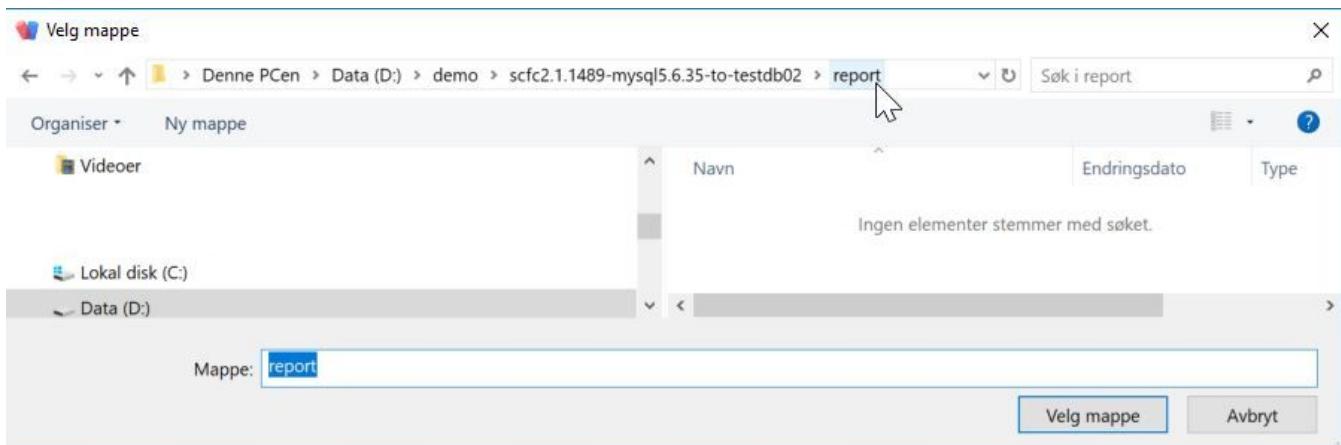


Click link “Auto-fill logs” to change the path to logfiles to the new SCFC project ..\report subfolder



NB! The highlighted “Filnavn” still points to the old Project folder and .siard filename.

- b) Click once at your new project folder “...testdb02 > report” at top of dialog window to switch to correct new folder.
c) Click “Velg mappe” to let the log-files be saved in this project-folder. NB! Double check that the path fits your project!

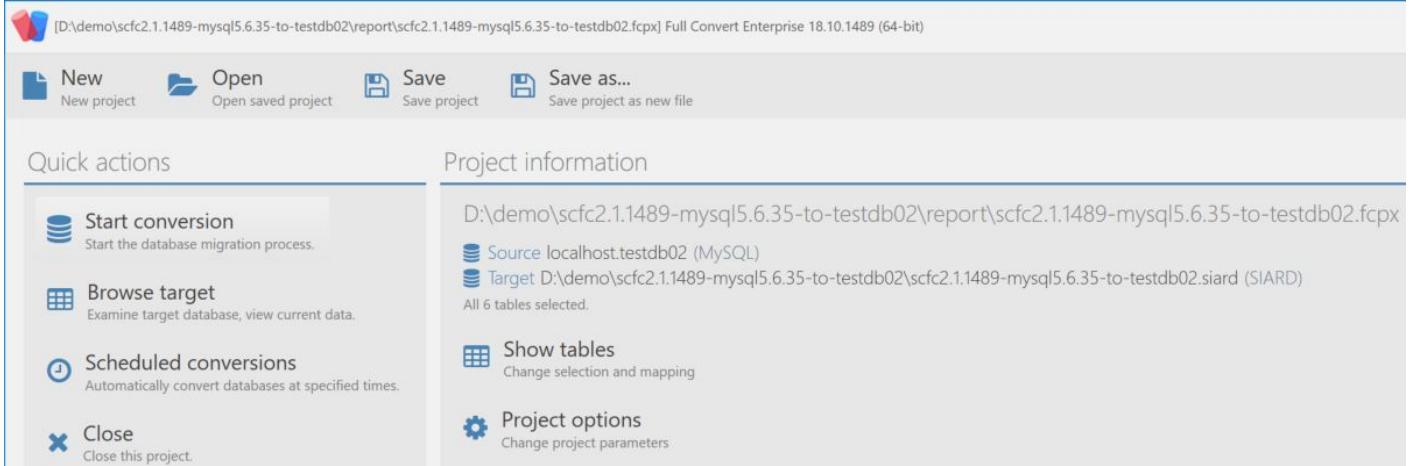


Click “Back” to return from “Project options” to the Main project window

B7) Click “Save” to save the SCFC this new project file once more

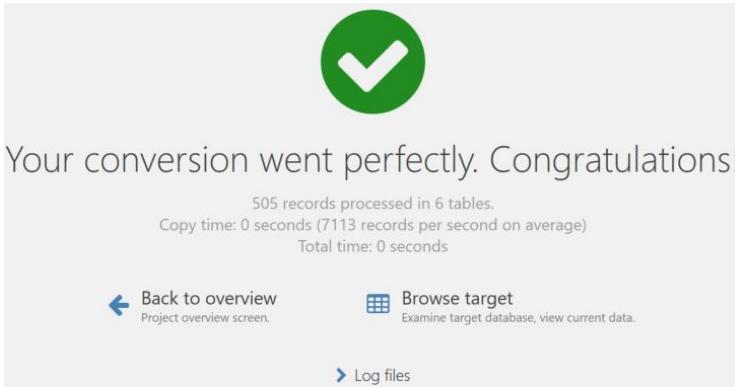
NB! Else your Project options and maybe more is lost!
You do NOT want logs or .SIARD file to write into earlier projects!

Double check Source and Target and number of tables selected in the main project dialog.



B8) Click “Start conversion” to start the SIARD extraction and check the progress and result status

This database still exports so fast you cannot quite follow the table extract progression.
Your conversion went perfectly, 505 records processed in 6 tables.

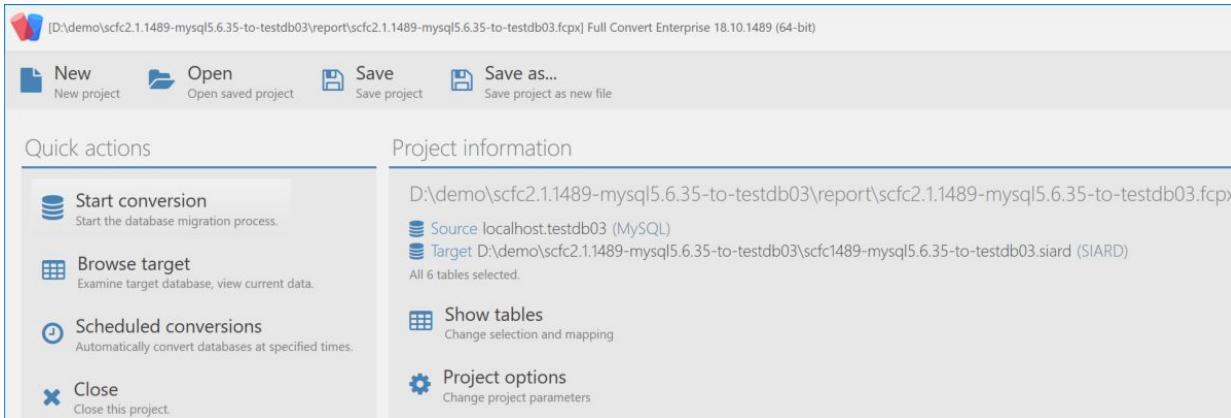


B9) Click “Log files” and examine the success rate and possibly warnings or problems to handle, and [Browse](#) data
Preferably instead check the logfiles yourself using Notepad++ or similar text editors directly in the SCFC project
SIARD folder... etc (same as for example testdb01)

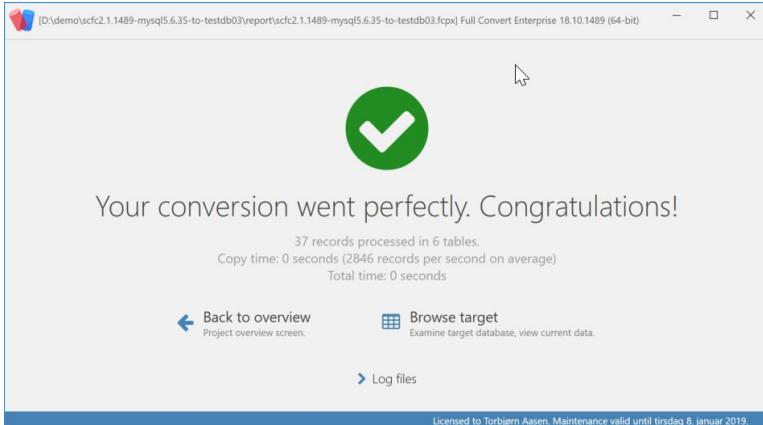
C) SCFC demo MySQL testdb03

C1) Make new project “testdb03” with its corresponding folder, .siard and .log files using the method example A) or B)

SUCCESS: 37 records in 6 tables. Examine table “objekt” with document reference external path/filename/extention.



Log files	
Summary	Auto-fill logs
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\report\ConversionErrors.log
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\report\ConversionSql.log
Errorred SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\report\ConversionErrorSql.log
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\report\Conversion.json
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb03\report\ConversionWarnings.log



testdb03.objekt											
Refresh											
objektID	mappelID	navn	innhold	merknad	filKatalog	filNavn	filtype	filtypeNavn	lastUpdated	lastUpdatedNavn	lastUpdatedBy
1	1	Dokument 1	Rådet for trygg trafikk	Merknad dokument 1	systemZ\data\dokumenter\2009\12\19	Vedlikehold av Noark 5.txt	TXT	TXT-dokument			
2	2	Dokument 2		Merknad dokument 2	systemZ\data\dokumenter\2009\12\19	utvalg_k2000v01.addml_7.3.XML	XML	XML-dokument			
3	3	Dokument 3	Brannstyre	Merknad dokument 3	objekt	1.pdf	PDF	PDF-dokument			
4	4	Dokument 4	Teknisk utval	Merknad dokument 4	objekt	2.pdf	PDF	PDF-dokument			
5	5	Dokument 5	Meter i vassforsyningssystem	Merknad dokument 5	objekt	5.pdf	PDF	PDF-dokument			
6	214	Dokument	Oppføring av braaingarasje på Fyrde Austefjorden	Merknad dokument 6	objekt	Noark 5v3.1.a5 Eks Arkivuttrekk xml.docx	DOCX	Word 2003-dokument			
7	259	Dokument	Braaingarasje på Straumshamn	Merknad dokument 7	objekt	Noark-5v3.1_a2_Metadatakatalog _objektsortert.doc	DOC	Word-dokument			
8	308	Dokument	Vegar - vedlikehald diverse papir	Merknad dokument 8	objekt	Noark-5v3.1_a4_Eks_Virksemhetsspesifikke_metadata	DOCX	Word-dokument			
9	328	Dokument	Nye vegar med kommunalt sommarvedlikehald	Merknad dokument 9	objekt	Samlet oversikt over krav i Noark5_egenerklæring_3	XLSX	Word-dokument			

D) SCFC demo MySQL testdb04 internal documents

D1) Make new project “testdb04int” with corresponding folder, .siard and .log files, the methods example A) B) C)

SUCCESS: 37 records in 6 tables.

Examine table “objekt” with document BLOB saved inside the .SIARD package and compare with C) above.

SIARD database:	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\scfc1489-mysql5.6.35-to-testdb04int.siard	
Compression:	Optimal	
Description:	testdb04 with 6 tables and total 514 rows of data, 9 documents in table BLOB col/field. Extracted BLOB-documents saved inside .SIARD (internal)	
Archiver:	Torbjørn Aasen	
Archiver contact:	torbjorn.aasen@ikamr.no	
Data owner:	1599 Test kommune	
Origin time span:	13.12.2002 - 17.08.2008	
External LOB folder:	<input type="text"/>	

Log files		<input type="checkbox"/> Auto-fill logs
Summary	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\ConversionSummary.log	
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\ConversionErrors.log	
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\ConversionSql.log	
Errored SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\ConversionErrorSql.log	
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\Conversion.json	
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\ConversionWarnings.log	



Your conversion went perfectly. Congratulations!

37 records processed in 6 tables.

Copy time: 0 seconds (587 records per second on average)

Total time: 0 seconds

Back to overview
Project overview screen.

Browse target
Examine target database, view current data.

Log files

(D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\report\scfc2.1.1489-mysql5.6.35-to-testdb04int.fcp) Full Convert Enterprise 18.10.1489 (64-bit)								
Back Browsing SIARD database D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04int\scfc1489-mysql5.6.35-to-testdb04int.siard								
testdb04.objekt								
Type here to filter tables								
testdb04.arkiv								
testdb04.arkivskaper								
testdb04.mappe								
testdb04.objekt								
Columns (9)								
• objektID INT								
• mappeID INT								
• navn VARCHAR(255)								
• innhold VARCHAR(4000)								
• merknad VARCHAR(4000)								
• filObjekt BLOB								
• filNavn VARCHAR(50)								
• filtypeExtention VARCHAR(12)								
• filtypeNavn VARCHAR(30)								
Refresh								
objektID	mappeID	navn	innhold	merknad	filObjekt	filNavn	filTyp	filtypeNavn
1	1	Dokument 1	Rådet for trygg trafikk	Merknad dokument 1	Byte[]-matrise	Vedlikehold av Noark 5.txt	TXT	TXT-dokument
2	2	Dokument 2		Merknad dokument 2	Byte[]-matrise	utvalg_k2000v01_addml_7.XML	XML	XML-dokument
3	3	Dokument 3	Brannstyret	Merknad dokument 3	Byte[]-matrise	1.pdf	PDF	PDF-dokument
4	4	Dokument 4	Teknisk utval	Merknad dokument 4	Byte[]-matrise	2.pdf	PDF	PDF-dokument
5	5	Dokument 5	Møter i vassforsyningensnemnda	Merknad dokument 5	Byte[]-matrise	5.pdf	PDF	PDF-dokument
6	214	Dokument	Oppføring av braaengrasje på Fyrde Austefjorden	Merknad dokument 6	Byte[]-matrise	Noark 5v3.1_a5 Eks Arkivuttrekk xml.docx	DOCX	Word 2003-dokument
7	259	Dokument	Branngrasje på Straumshamn	Merknad dokument 7	Byte[]-matrise	Noark-5v3.1_a2_Metadatakatalog_objektsortert.doc	DOC	Word-dokument
8	308	Dokument	Vegar - vedlikehald diverse papir	Merknad dokument 8	Byte[]-matrise	Noark-5v3.1_a4_Eks_Virksonhetsspesifikke_metadata.docx	DOCX	Word-dokument
9	328	Dokument	Nye vegar med kommunalt sommarvedlikehald	Merknad dokument 9	Byte[]-matrise	Samlet oversikt over krav i Noark5_egenerklæring_3	XLSX	Word-dokument

E) SCFC demo MySQL testdb04 external documents

E1) Make new project “testdb04ext” with corresponding folder, .siard and .log files, the methods example A) B) C) D)

Resulting at bottom E) with SUCCESS: 37 records in 6 tables.

Examine table “objekt” with document BLOB saved outside the .SIARD package in its own folder compared with D).

As can be seen, the SIARD browse Target data is exactly match D) doc inside SIARDA and E) doc outside folders.
This is due to the only difference is in the BLOB document reference inside the BLOB table (inside vs outside pointer).

E2) Notice on selecting “External LOB folder” in Target SIARD

Click the “Use default external LOB folder” to automatically get

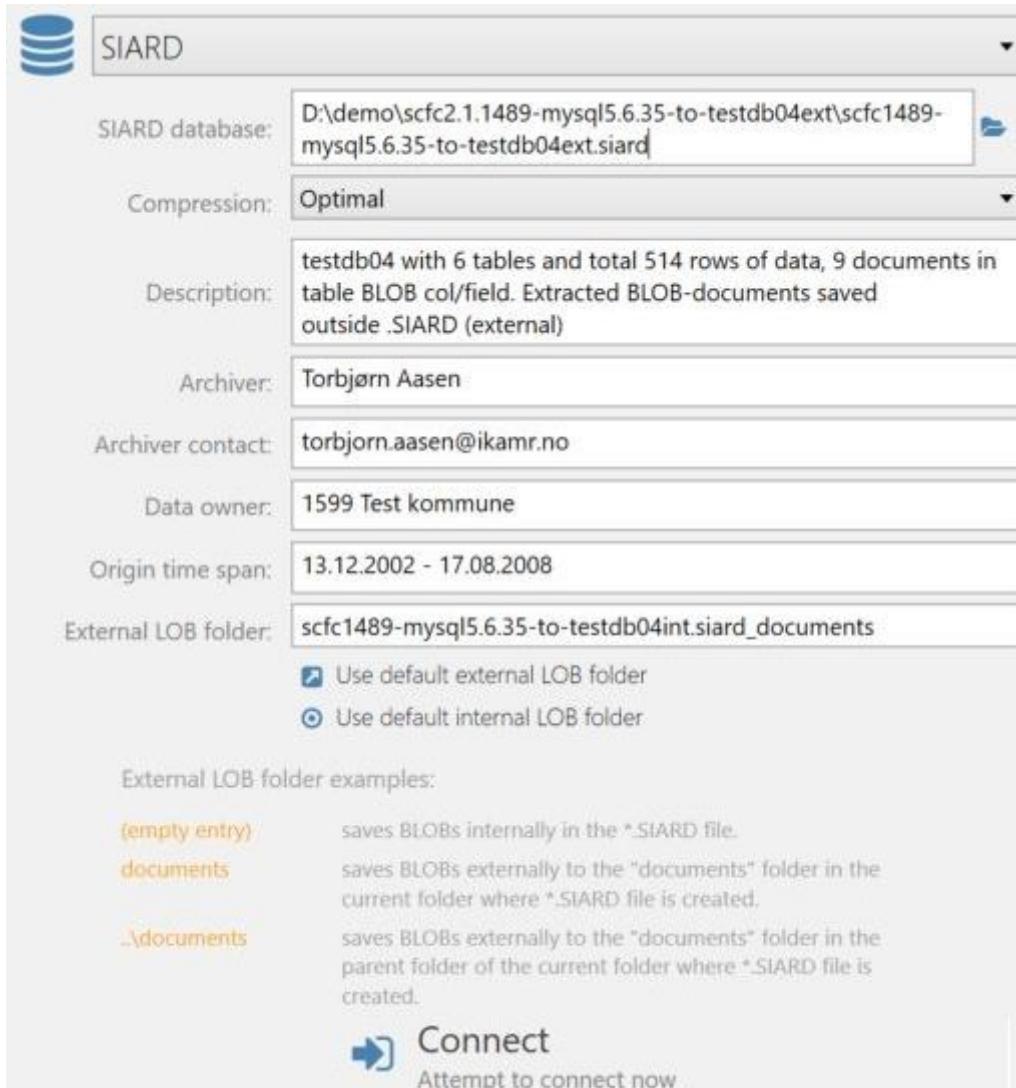
External Lob folder: [testdb04ext_scfc2.0.siard_documents](#)

This folder will be next to the .siard package itself, and may be used if a large (or smaller) number of documents is to be saved in outside folders, not filling up the .SIARD file itself.

NB! At present SCFC does not support Message Digest of the individual document, which leads to our strong recommendation to leave External LOB folder blank (save documents INSIDE the .siard package).

This way we can preserve the SIARD package with a checksum for later integrity check, which will be impossible for any external documents without its individual Message Digest saved in the SIARD metadata reference!

E3) Screenshots of “testdb04ext”



Log files

Auto-fill logs	
Summary	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\ConversionSummary.log
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\ConversionErrors.log
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\ConversionSql.log
Errored SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\ConversionErrorSql.log
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\Conversion.json
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\ConversionWarnings.log



Your conversion went perfectly. Congratulations!

37 records processed in 6 tables.

Copy time: 0 seconds (804 records per second on average)

Total time: 0 seconds

[D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb05ext\report\scfc2.1.1489-mysql5.6.35-to-testdb04ext.fp] Full Convert Enterprise 18.10.1489 (64-bit)

Back Browsing SIARD database D:\demo\scfc2.1.1489-mysql5.6.35-to-testdb04ext\scfc1489-mysql5.6.35-to-testdb04ext.siard

Type here to filter tables

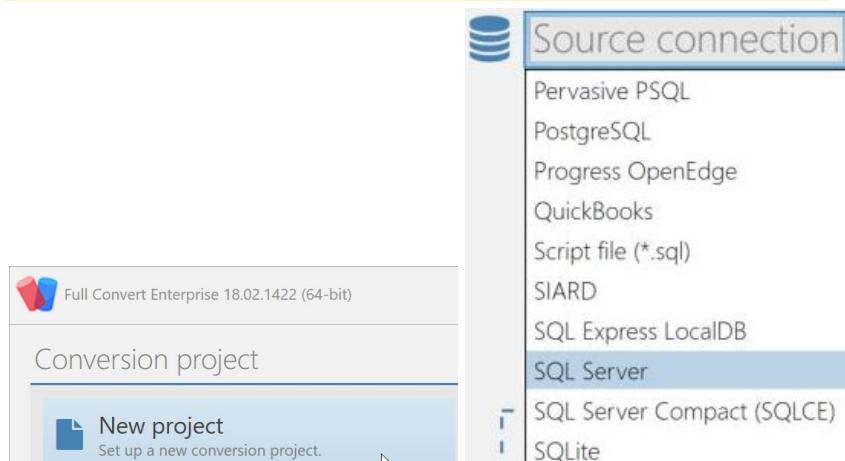
testdb04.objekt

Refresh

objektID	mappelID	navn	innhold	merknad	filObjekt	filNavn	filtypeExtention	filtypeNavn
1	1	Dokument 1	Rådet for trygg trafikk	Merknad dokument 1	Byte[]-matrise	Vedlikehold av Noark 5.txt	TXT	TXT-dokument
2	2	Dokument 2		Merknad dokument 2	Byte[]-matrise	utvalg_k2000v01_admml_73.XML	XML	XML-dokument
3	3	Dokument 3	Brannstyret	Merknad dokument 3	Byte[]-matrise	1.pdf	PDF	PDF-dokument
4	4	Dokument 4	Teknisk utval	Merknad dokument 4	Byte[]-matrise	2.pdf	PDF	PDF-dokument
5	5	Dokument 5	Mater i vassføringssnemnda	Merknad dokument 5	Byte[]-matrise	5.pdf	PDF	PDF-dokument
6	214	Dokument	Oppfering av braaenggarasje på Fyrde Austefjorden	Merknad dokument 6	Byte[]-matrise	Noark 5v3.1 a5 Eks Arkivuttrekk xml.docx	DOCX	Word 2003-dokument
7	259	Dokument	Branngarasje på Straumshamn	Merknad dokument 7	Byte[]-matrise	Noark-5v3.1_a2_Metadatakatalog _objektsortert.doc	DOC	Word-dokument
8	308	Dokument	Vegan - vedlikehald diverse papir	Merknad dokument 8	Byte[]-matrise	Noark-5v3.1_a4_Eks_Virkomhetsspesifikke_metadata.DOCX	DOCX	Word-dokument
9	328	Dokument	Nye vregar med kommunalt sommarlikehald	Merknad dokument 9	Byte[]-matrise	Samlet oversikt over krav til Noarks_egenerklæring_3	XLSX	Word-dokument

F) SCFC demo MSSQL blob03int

F1) Create “New project” and select Source connection “SQL Server”



F2) Source parameters: Enter server, user, password, database and click “Next”

Server: localhost, IP-address or valid DNS-name as seen from your client computer

MSSQL may have configured access as: <server>\<instance>

Example: IKAMR-B10\SQLEXPRESS where SQLEXPRESS is the default instance in MSSQL Express version Authentication (radio button):

Windows: If SCFC is installed on the server or client with Windows authentication access to the database

SQL Server: Standard database SQL connection with username & password

Username: blob03user

Password: test

Database: blob03 (can be selected from dropdown available databases or written as plain text)

Include views: unchecked (view data is saved like a table > get redundancy - only use if important to link view-data)

Optional

Network library: <default> to be used, but may target also: Named Pipes | TCP/IP | Shared Memory

Port: 1433 Default MSSQL port

Encrypted [] Checkbox default not checked

Trust server certificate [] Checkbox default not checked

With correct Server, Username and Password, you may use dropdown menu to select the correct Database.

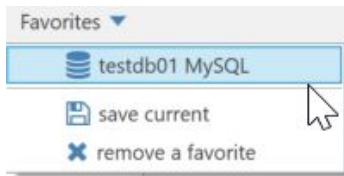
The screenshot shows the 'Source connection' configuration dialog. At the top, there's a dropdown menu labeled 'SQL Server'. Below it is a 'Favorites' dropdown. The main area has fields for 'Server' (set to IKAMR-B10\SQLEXPRESS), 'Authentication' (set to SQL Server), 'Username' (blob03user), 'Password' (****), and 'Database' (a dropdown menu showing available databases: blob01, blob02, blob03, master, model, with blob03 selected). At the bottom left, there's an 'Optional' section.

With Database also Dropdown selected or written, you may attempt to Connect.

The screenshot shows the 'SQL Server' connection configuration dialog. At the top, there's a dropdown menu showing 'SQL Server'. Below it is a 'Favorites' dropdown. The main configuration area includes fields for 'Server' (set to 'IKAMR-B10\SQLEXPRESS'), 'Authentication' (set to 'SQL Server'), 'Username' ('blob03user'), 'Password' ('*****'), 'Database' ('blob03'), and a checked checkbox for 'Include views'. Below this, under 'Optional', there are fields for 'Network library' ('<default>'), 'Port' ('1433'), and two unchecked checkboxes for 'Encrypted' and 'Trust server certificate'.

Optional

Network library: <default>
Port: 1433
 Encrypted
 Trust server certificate



TIP: The Favorites dropdown menu lets you Save and reuse Source connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

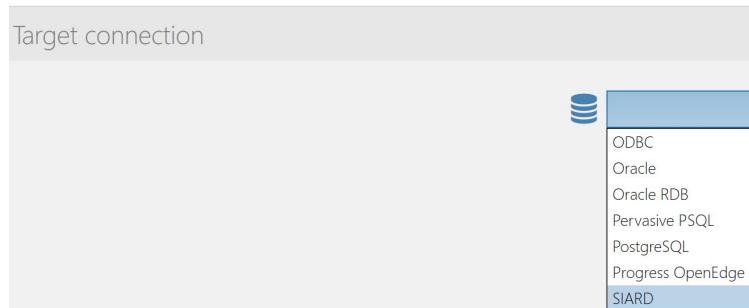
Click “[Next](#)” to continue to select Target.

If your Source connection fails to connect, your progress will halt and you will need to fix the Source login information.



F3) Select Target connection “SIARD”, enter top level metadata and click “Next”

Target connection: SIARD



Type or copy the SIARD path and filename directly into the “SIARD database field”.

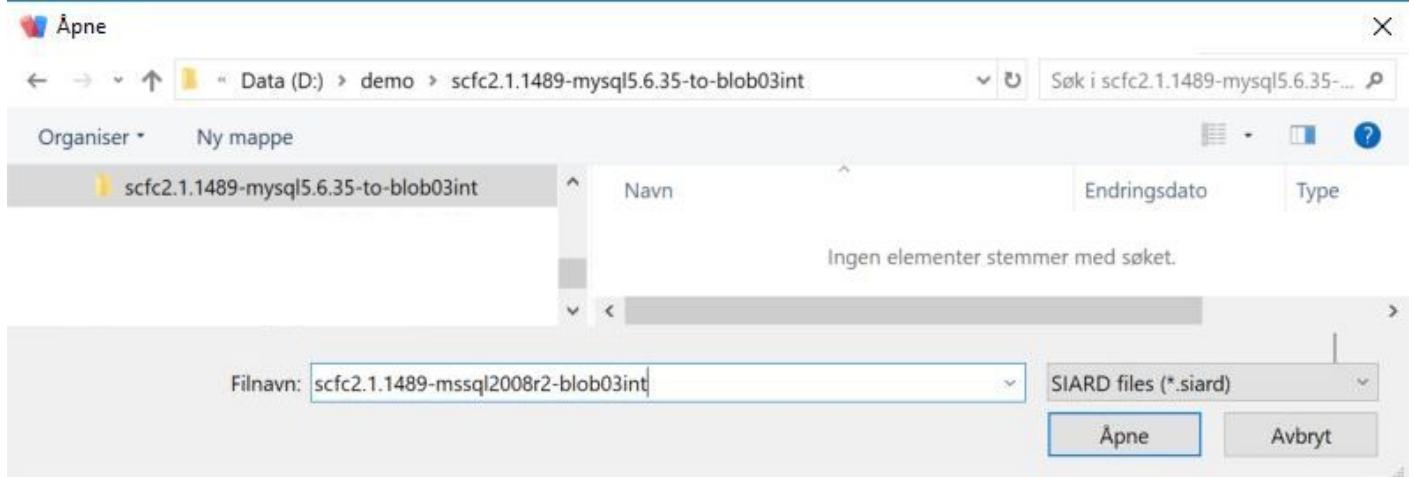
Or click the “Folder” icon to the right of the “SIARD database” field select folder and filename for the .siard file.



Example is selecting folder and typing filename:

D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03\scfc2.1.1489-mysql5.6.35-to-blob03.siard

If using the "Folder" icon, click "[Åpne](#)" to select the Target .siard filename (you do not have to type in .siard at end)



Enter data for the remaining settings/metadata fields:

SIARD

Favorites ▾

SIARD database: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03int\scfc2.1.1489-mssql2008r2-blob03int.siard

Compression: Optimal

Description: Description: blob03 with 7 tables and total 631 689 rows of data, 28 documents in table BLOBS col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.2011 - 31.12.2014

External LOB folder:

Use default external LOB folder
 Use default internal LOB folder

External LOB folder examples:

(empty entry) saves BLOBs internally in the *.SIARD file.

documents saves BLOBs externally to the "documents" folder in the current folder where *.SIARD file is created.

..\documents saves BLOBs externally to the "documents" folder in the parent folder of the current folder where *.SIARD file is created.

Compression: Optimal (default) | No compression | Fastest

Description: <Description of the meaning and content of the database as a whole> ([optional](#))

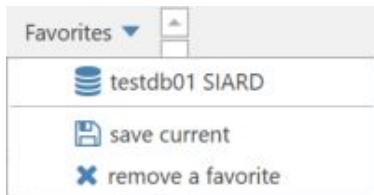
Archiver: <Name of the person who carried out the archiving of the table data from the database> ([optional](#))

Archiver contact: <Contact details, telephone, e-mail, of the Archiver> ([optional](#))

Data owner: <Owner of the database, Org; 15KK navn kommune eks "1504 Ålesund kommune"> ([mandatory](#))

Origin time span: <Origination period of the data in the database; approximate indication in text form> ([mandatory](#))

External LOB folder: <if empty all LOB elements stored inside .siard package, else in this external folder> ([optional](#))



TIP: The Favorites dropdown menu lets you Save and reuse Target connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

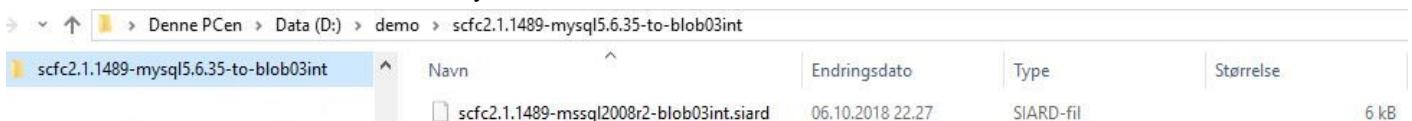
A good naming convention on .siard files and SCFC project names is recommended!

Click "Next" to continue.

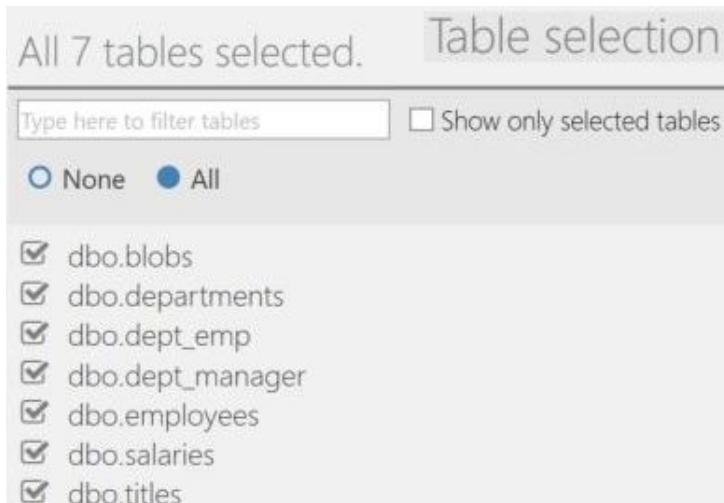
F4) Click "Yes" to create the .siard Target database file



A default .siard file is created without any data or metadata content



F5) Table selection - "All 7 tables selected"



Click "Next" to continue.

F6) NB! Click "Just show my project", as we do NOT want to "Start conversion immediately"



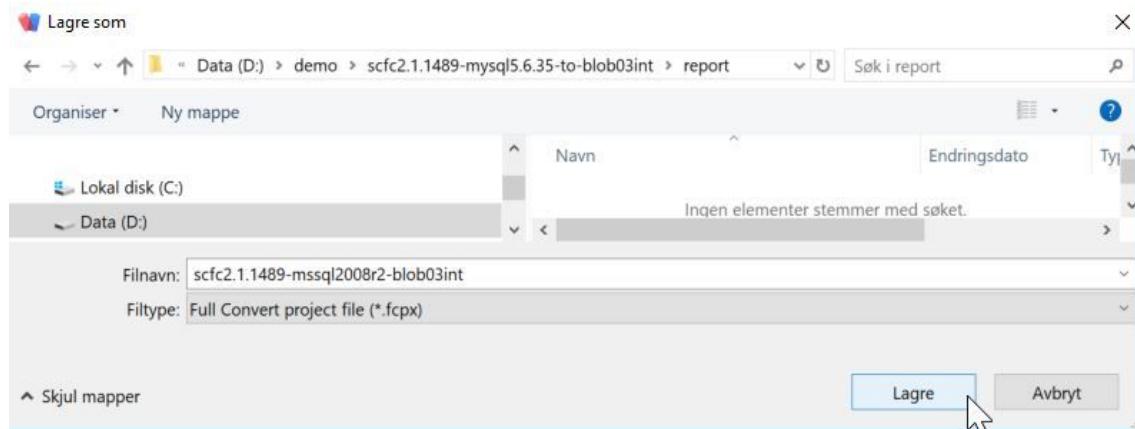
Click "Finish" to go to the Project main section.

F7) Click "Save as..." to save the SCFC project file NB! Else your Project options and maybe more is lost!

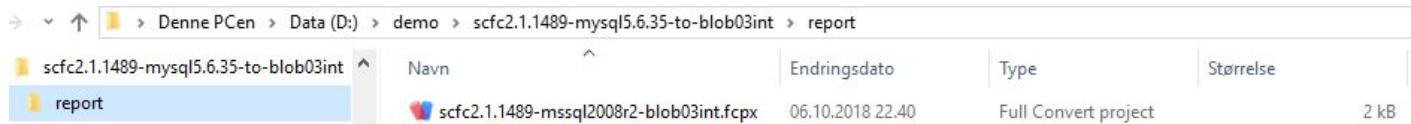
Ex. start type start of .siard filename, here "scfc" in the Filnavn field, key arrow down, and remove ending .siard

Filnavn: scfc
Filtype: scfc2.1.1489-mssql2008r2-blob03int.siard

NB! Next click button "Ny mappe" and create subdirectory ..\report and save the SCFC project filename there!
SCFC project filename = "..\report\scfc2.1.1489-mssql2008r2-to-blob03.fcpx".

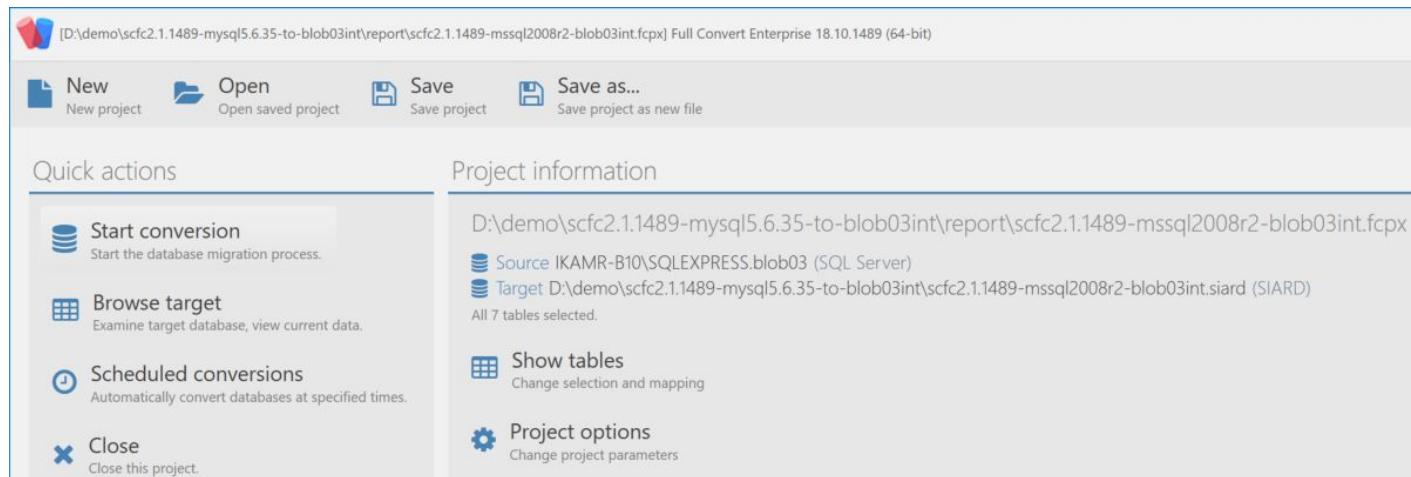


As a result the SCFC project file is saved in the ..\report subfolder, a subdirectory of where the .siard file is.



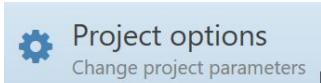
The SCFC project is saved and you can double-check the selectios as all parts are viewable:

Projcet folder, SCFC project file, Source database, Target .siard and number of tables selected.

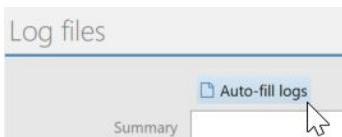


F8) Project options for enabling auto-logging

Click button “Project options” in the man section:



Click link “Auto-fill logs”

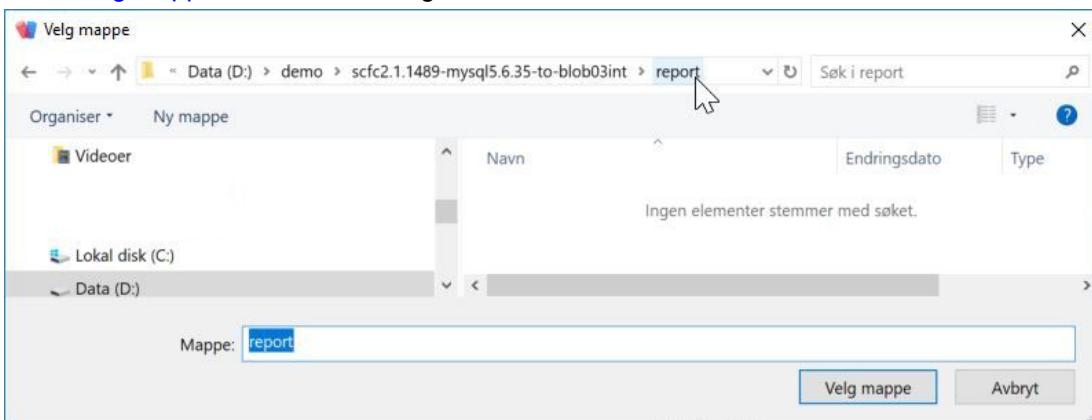


Click subfolder “report” which is shown because the SCFC project file is saved there.

NB! If SCFC Save Project As or Open Project was chosen, you must brows the folder to your correct “report” folder.

NB! If you do NOT to click “Auto-fill logs” once more in those cases, you may end up overwrite other project logs!

Click “Velg mappe” to auto-fill the log names.

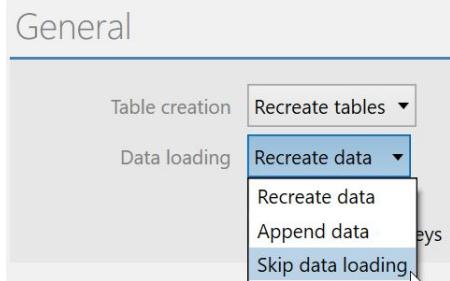


The “Log files” section is auto-filled inside the SCFC project folder. NB! Double check that the path fits your project!

Option: Write metadata only into the .siard file

Project options: General section

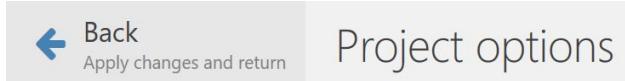
Field "Data loading", dropdown menu select "Skip data loading"



TIP: Advanced users may use the Project options section for:

[Mapping](#), [Run before conversion](#), [Run after conversion](#), [Databases](#), [Console email notification](#), [Troubleshooting](#)

Click "Back" to return from "Project options" to the Main project window



F9) Click "Save" to save the SCFC project file

NB! Else your Project options and maybe more is lost!

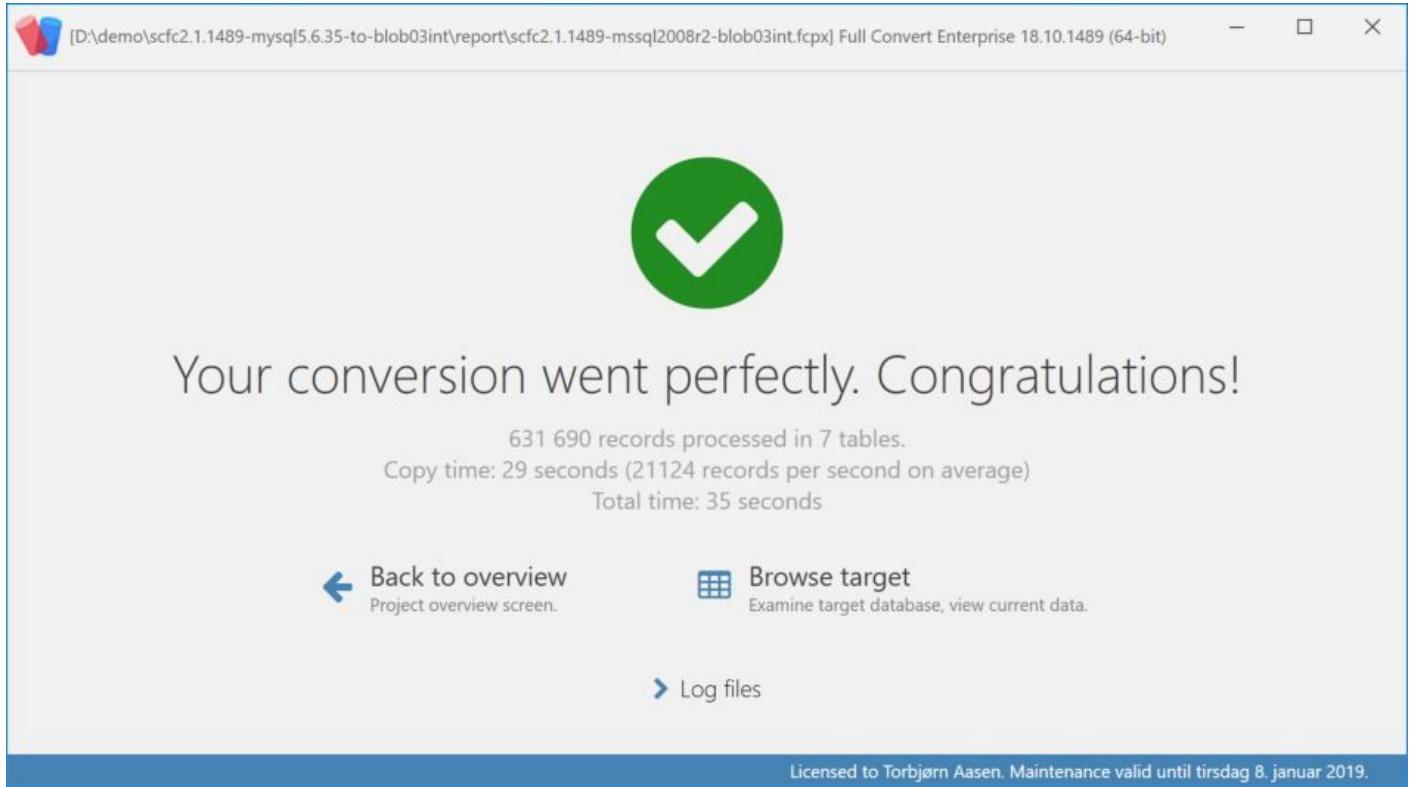
F10) Click "Start conversion" to start the SIARD extraction and check the progress and result status

The blob03 test-database exports all tables from MSSQL 2008 R2 successfully.

Your conversion went perfectly, 631 690 records processed in 7 tables.

Copy time: 29 seconds (21124 records per second on average).

Total time: 35 seconds



Your project\report folder now is filled with all the wanted logfiles (check with Windows Explorer).

NB! Both Error-logs and the Warning-log are empty because the SCFC SIARD-extraction had no errors or warnings!

Navn	Endringsdato	Type	Størrelse
Conversion.json	06.10.2018 22.58	JSON file	3 kB
ConversionErrors.log	06.10.2018 22.57	Tekstdokument	0 kB
ConversionErrorSql.log	06.10.2018 22.57	Tekstdokument	0 kB
ConversionSql.log	06.10.2018 22.58	Tekstdokument	2 kB
ConversionSummary.log	06.10.2018 22.58	Tekstdokument	2 kB
ConversionWarnings.log	06.10.2018 22.57	Tekstdokument	0 kB
scfc2.1.1489-mssql2008r2-blob03int.fcpx	06.10.2018 22.57	Full Convert project	2 kB

F11) Click "Log files" and examine the successrate and possibly warnings or problems to handle

Preferably instead check the logfiles yourself using Notepad++ or similar text editors directly in the SCFC project SIARD folder. Same goes for the SQL and JSON editors (Notepad++ may be used here as well).

Conversion Summary log

Full Convert Enterprise 18.10.1489

Licensed to Torbjørn Aasen

[2018-10-06 22.57.32] Starting SQL Server to SIARD conversion
[2018-10-06 22.57.32] Connected to databases
[2018-10-06 22.57.37] Read metadata
[2018-10-06 22.57.37] Mapped tables
[2018-10-06 22.57.37] Dropped tables (7 perfect, 0 with errors)
[2018-10-06 22.57.37] Created tables (7 perfect, 0 with errors)
[2018-10-06 22.58.07] Copied data to target tables (7 perfect, 0 with errors)
[2018-10-06 22.58.08] Created indexes (10 perfect, 0 with errors)
[2018-10-06 22.58.08] Created foreign keys (6 perfect, 0 with errors)
[2018-10-06 22.58.08] Disconnected from databases
[2018-10-06 22.58.08] Completed in 35. seconds

Project: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03int\report\scfc2.1.1489-mssql2008r2-blob03int.fcpx

Source: IKAMR-B10\SQLEXPRESS.blob03 (SQL Server)

Target: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03int\scfc2.1.1489-mssql2008r2-blob03int.siard (SIARD)

Outcome: Perfect conversion, no errors

631 690 records processed in 7 tables

Copy time: 29 seconds (21 124 records per second on average)

Total time: 35 seconds

Conversion Warnings log

<is empty, no warnings encountered>

Conversion Errors log

<is empty, no error encountered>

Conversion SQL log

```
CREATE TABLE "blobs" (
    "idblobs" INT NOT NULL,
    "blobscol" BLOB NULL,
    "filename" VARCHAR(80) NULL,
    "size" INT NULL,
    "ext" VARCHAR(10) NULL,
    "extmismatch" INT NOT NULL,
    "puid" VARCHAR(10) NULL,
    "imetype" VARCHAR(100) NULL,
    "formatname" VARCHAR(50) NULL,
    "formatversion" VARCHAR(20) NULL
)
CREATE TABLE "departments" (
    "dept_no" CHAR(4) NOT NULL,
    "dept_name" VARCHAR(40) NOT NULL
```

```

)
CREATE TABLE "employees" (
    "emp_no" INT NOT NULL,
    "birth_date" DATE NOT NULL,
    "first_name" VARCHAR(14) NOT NULL,
    "last_name" VARCHAR(16) NOT NULL,
    "gender" CHAR(2) NOT NULL,
    "hire_date" DATE NOT NULL
)
CREATE TABLE "dept_emp" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "dept_manager" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "salaries" (
    "emp_no" INT NOT NULL,
    "salary" INT NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "titles" (
    "emp_no" INT NOT NULL,
    "title" VARCHAR(50) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NULL
)

```

Conversion Error SQL log

<is empty, no error encountered>

Conversion JSON

```
{
  "Tables": {
    "dbo.blobs": {
      "Schema": "dbo",
      "Name": "blobs",
      "Selected": true,
      "TargetSchema": "",
      "TargetName": "blobs",
      "Seconds": 8.649,
      "Records": 30,
      "RecordsCopied": 30,
      "RecordsPerSecond": 3.4686090877558104,
      "Valid": true,
      "Errors": []
    },
    "dbo.departments": {
      "Schema": "dbo",
      "Name": "departments",
      "Selected": true,
      "TargetSchema": "",
      "TargetName": "departments",
      "Seconds": 0.008,
      "Records": 9,
      "RecordsCopied": 9,
      "RecordsPerSecond": 1125.0,
      "Valid": true,
      "Errors": []
    },
    "dbo.employees": {
      "Schema": "dbo",
      "Name": "employees",
      "Selected": true,
      "TargetSchema": "",
      "TargetName": "employees",
      "Seconds": 0.008,
      "Records": 9,
      "RecordsCopied": 9,
      "RecordsPerSecond": 1125.0,
      "Valid": true,
      "Errors": []
    }
  }
}
```

```
"Selected": true,
"TargetSchema": "",
"TargetName": "employees",
"Seconds": 14.121,
"Records": 300024,
"RecordsCopied": 300024,
"RecordsPerSecond": 21246.653919694072,
"Valid": true,
"Errors": []
},
"dbo.dept_emp": {
"Schema": "dbo",
"Name": "dept_emp",
"Selected": true,
"TargetSchema": "",
"TargetName": "dept_emp",
"Seconds": 7.121,
"Records": 331603,
"RecordsCopied": 331603,
"RecordsPerSecond": 46566.914759163039,
"Valid": true,
"Errors": []
},
"dbo.dept_manager": {
"Schema": "dbo",
"Name": "dept_manager",
"Selected": true,
"TargetSchema": "",
"TargetName": "dept_manager",
"Seconds": 0.003,
"Records": 24,
"RecordsCopied": 24,
"RecordsPerSecond": 8000.0,
"Valid": true,
"Errors": []
},
"dbo.salaries": {
"Schema": "dbo",
"Name": "salaries",
"Selected": true,
"TargetSchema": "",
"TargetName": "salaries",
"Seconds": 0.001,
"Records": 0,
"RecordsCopied": 0,
"RecordsPerSecond": 0.0,
"Valid": true,
"Errors": []
},
"dbo.titles": {
"Schema": "dbo",
"Name": "titles",
"Selected": true,
"TargetSchema": "",
"TargetName": "titles",
"Seconds": 0.001,
"Records": 0,
"RecordsCopied": 0,
"RecordsPerSecond": 0.0,
"Valid": true,
"Errors": []
}
},
"Project": {
"TotalTables": 7,
"SelectedTables": 7,
"ValidTables": 7,
"InvalidTables": 0,
"Records": 631690,
```

```

    "RecordsCopied": 631690,
    "Result": "PERFECT",
    "ResultDescription": "Perfect conversion, no errors",
    "AverageRecordsPerSecond": 21124,
    "Seconds": 35.439,
    "DataLoadSeconds": 29.904,
    "FatalError": null
}
}

```

F12) Click “Browse target”

Click arrows at left of “blobs” Table and expand “Columns (10)” and “Indexes (1)” as you please.

Click centre content “Show table data” to look into the .siard file and browse the table data saved as xml-files there.

Click “Back” when done.

The screenshot shows a Windows application window titled 'Browsing SIARD database D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03int\scfc2.1.1489-mssql2008r2-blob03int.siard'. The main area displays a table titled 'blobs' with 12 rows of data. The columns are: idblobs, blobscol, filename, size, ext, extr, puid, mimetype, formatname, and formatversion. The data includes various file types such as PDF, Word documents, and spreadsheets, with sizes ranging from 0 to over 100,000 bytes. A red warning message 'NB! Large/wide tables may take a while to load!' is displayed above the table. On the left, a tree view shows other tables like 'departments', 'dept_emp', etc. A status bar at the bottom right indicates 'Licensed to Torbjørn Aasen, Maintenance valid until tirsdag 8. januar 2019.'

idblobs	blobscol	filename	size	ext	extr	puid	mimetype	formatname	formatversion
1	Byte[]-matrise	01-test_Adobe-PDF_a-1b_fmt354	16928	pdf	0	fmt/354	application/pdf	Acrobat PDF/A - Portable Document Format	1b
2	Byte[]-matrise	02-N5-mettdatatalog_Adobe-PDF_1.5_fmt19	962236	pdf	0	fmt/19	application/pdf	Acrobat PDF 1.5 - Portable Document Format	1.5
3	Byte[]-matrise		0		0			Empty element (not NULL)	
4	Byte[]-matrise	04-XML-to-Relational_Adobe-PDF_1.2_fmt16	321694	pdf	0	fmt/16	application/pdf	Acrobat PDF 1.2 - Portable Document Format	1.2
5	Byte[]-matrise	05-Notat-kap3_MS-Word_2007_fmt412	16020	docx	0	fmt/412	application/vnd.openxmlformats-officedocument.wordprocessingml.document	Microsoft Word for Windows	2007 onwards
6	Byte[]-matrise	06-Notat-forskrift_MS-Word_v2007_fmt412	17771	docx	0	fmt/412	application/vnd.openxmlformats-officedocument.wordprocessingml.document	Microsoft Word for Windows	2007 onwards
7	Byte[]-matrise	07-Du-maa-ikke-sove_MS-Word_2007_fmt412	523865	docx	0	fmt/412	application/vnd.openxmlformats-officedocument.wordprocessingml.document	Microsoft Word for Windows	2007 onwards
8	Byte[]-matrise	08-Asta-3001_OpenDocSpreadsheet_1.2_fmt295	88305	ods	0	fmt/295	application/vnd.oasis.opendocument.spreadsheet	OpenDocument Spreadsheet	1.2
9	Byte[]-matrise	09-Asta-3001-Large_OpenDocSpreadsheet_1.2_fmt295	595662	ods	0	fmt/295	application/vnd.oasis.opendocument.spreadsheet	OpenDocument Spreadsheet	1.2
10	Byte[]-matrise	10-Du-maa-ikke-sove_OpenDocText_1.2_fmt291	45952	odt	0	fmt/291	application/vnd.oasis.opendocument.text	OpenDocument Text	1.2
11	Byte[]-matrise	11-Du-maa-ikke-sove-large_OpenDocText_1.2_fmt291	276258	odt	0	fmt/291	application/vnd.oasis.opendocument.text	OpenDocument Text	1.2
12	Byte[]-matrise	12-KS-forskrift_Adobe-PDF_1.4_fmt18	188427	pdf	0	fmt/18	application/pdf	Acrobat PDF 1.4 - Portable Document Format	1.4

F13) Click “Back” to return SCFC main project overview

Continue do any needed/wanted adjustments and re-extraction.

You must delete/move all files except the .fcpx SCFC project file to do a complete re-extraction with adjusted setup.

Advisable to move-copy the first files/logs to compare results in the adjusted extraction, then delete them later success.

If no adjustment or re-export is needed you are done.

And can move one using the .siard extraction in your production line (Documaster Decom or import to new database).

G) SCFC demo MySQL to MSSQL blob03 variants

The original blob03 with Table blob and 30 rows of documents is multiplied with a number of additional 30 rows of blob columns into larger versions of the same database, only table blob being changed.

G0) blob03b original table with 30 rows of Table blob with documents total of 13.5 MB size

Table	Action	Rows	Type	Collation	Size
blobs	Browse Structure Search Insert Empty Drop	30	InnoDB	utf8_general_ci	13.5 MiB
departments	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	32 KiB
dept_emp	Browse Structure Search Insert Empty Drop	331,603	InnoDB	utf8_general_ci	17 MiB
dept_manager	Browse Structure Search Insert Empty Drop	24	InnoDB	utf8_general_ci	32 KiB
employees	Browse Structure Search Insert Empty Drop	300,024	InnoDB	utf8_general_ci	14.5 MiB
salaries	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
titles	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
7 tables	Sum	631,690	InnoDB	utf8_general_ci	45.2 MiB

G1) blob03b with 513 147 rows of Table blob with documents total of 220 GB size

Table	Action	Rows	Type	Collation	Size
blobs	Browse Structure Search Insert Empty Drop	573,147	InnoDB	utf8_general_ci	219.8 GiB
departments	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	32 KiB
dept_emp	Browse Structure Search Insert Empty Drop	331,603	InnoDB	utf8_general_ci	17 MiB
dept_manager	Browse Structure Search Insert Empty Drop	24	InnoDB	utf8_general_ci	32 KiB
employees	Browse Structure Search Insert Empty Drop	300,024	InnoDB	utf8_general_ci	14.5 MiB
salaries	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
titles	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
7 tables	Sum	1,204,807	InnoDB	utf8_general_ci	219.9 GiB

G2) blob03c with 3 030 rows of Table blob with documents total of 1.2 GB size

phpMyAdmin

Server: Uniform Server:3306 » Database: blob03c

Structure SQL Search Query Export Import

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 69.6093 seconds.)

CALL ADDRWS01

New

blob03c

Procedures

New

ADDRWS01

Tables

New

blobs

departments

dept_emp

dept_manager

employees

salaries

titles

MySQL returned an empty result set (i.e. zero rows). (Query took 69.6093 seconds.)

CALL ADDRWS01

phpMyAdmin

Server: Uniform Server:3306 » Database: blob03c

Structure SQL Search Query Export Import Operations Privileges Routines

Table	Action	Rows	Type	Collation	Size
blobs	Browse Structure Search Insert Empty Drop	3,030	InnoDB	utf8_general_ci	1.2 GiB
departments	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	32 KiB
dept_emp	Browse Structure Search Insert Empty Drop	331,603	InnoDB	utf8_general_ci	17 MiB
dept_manager	Browse Structure Search Insert Empty Drop	24	InnoDB	utf8_general_ci	32 KiB
employees	Browse Structure Search Insert Empty Drop	300,024	InnoDB	utf8_general_ci	14.5 MiB
salaries	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
titles	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
7 tables	Sum	634,690	InnoDB	utf8_general_ci	1.2 GiB

Check all With selected:

Print Data dictionary

G3) blob03d with 30 030 rows of Table blob with documents total of 11.m2 GB size

Table	Action	Rows	Type	Collation	Size
blobs	Browse Structure Search Insert Empty Drop	30,030	InnoDB	utf8_general_ci	11.2 GiB
departments	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	32 KiB
dept_emp	Browse Structure Search Insert Empty Drop	331,603	InnoDB	utf8_general_ci	17 MiB
dept_manager	Browse Structure Search Insert Empty Drop	24	InnoDB	utf8_general_ci	32 KiB
employees	Browse Structure Search Insert Empty Drop	300,024	InnoDB	utf8_general_ci	14.5 MiB
salaries	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
titles	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
7 tables	Sum	661,690	InnoDB	utf8_general_ci	11.2 GiB

G4) testdb05 with small number of rows but multiple Tables for LOB, REFDOC and all MySQL types

Table	Action	Rows	Type	Collation	Size
alltypes	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8_general_ci	16 KiB
arkiv	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8_general_ci	48 KiB
arkivskaper	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8_general_ci	32 KiB
mappe	Browse Structure Search Insert Empty Drop	368	InnoDB	utf8_general_ci	96 KiB
objekt	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	1.5 MiB
objekt1	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt2	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt3	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt4	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt5	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt6	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt7	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt8	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt9	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
objekt10	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8_general_ci	32 KiB
refobjekt1	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt2	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt3	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt4	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt5	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt6	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt7	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt8	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt9	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
refobjekt10	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 KiB
serie	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	48 KiB
stykke	Browse Structure Search Insert Empty Drop	127	InnoDB	utf8_general_ci	48 KiB
widecolumns	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8_general_ci	32 KiB
29 tables	Sum	526	InnoDB	utf8_general_ci	2.2 MiB

blob03b

MySQL

Favorites ▾

Server: localhost Port: 3306

Username: blob03buser

Password: ****

Database: blob03b

Include views

SQL Server

Favorites ▾

Server: IKAMR-B10\SQLEXPRESS

Authentication: Windows SQL Server

Username: blob03buser

Password: ****

Database: blob03b

Optional

Network library: <default>

Port: 1433

Encrypted

Trust server certificate

All 7 tables selected.

Type here to filter tables

Show only selected tables

None All

blobs

departments

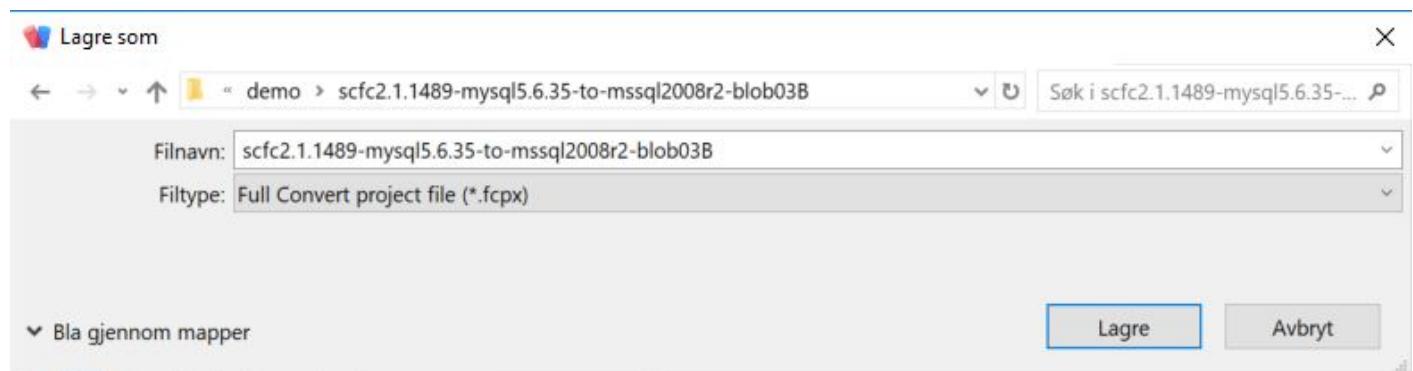
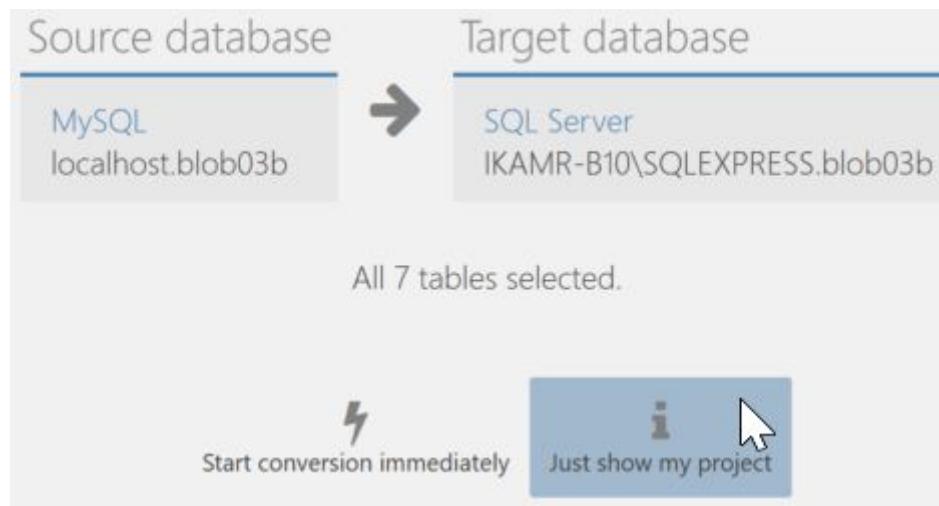
dept_emp

dept_manager

employees

salaries

titles



Log files

Auto-fill logs

Summary	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\ConversionSummary.log	
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\ConversionErrors.log	
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\ConversionSql.log	
Errored SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\ConversionErrorSql.log	
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\Conversion.json	
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\ConversionWarnings.log	

Project information

D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03B.fcpx

Source localhost.blob03b (MySQL)
 Target IKAMR-B10\SQLEXPRESS.blob03b (SQL Server)

All 7 tables selected.

Show tables
Change selection and mapping

Project options
Change project parameters

blob03c

MySQL

Server: localhost Port: 3306

Username: blob03cuser

Password: ****

Database: blob03c

Include views

SQL Server

Server: IKAMR-B10\SQLEXPRESS

Authentication: Windows SQL Server

Username: blob03cuser

Password: ****

Database: blob03c

Optional

Network library: <default>

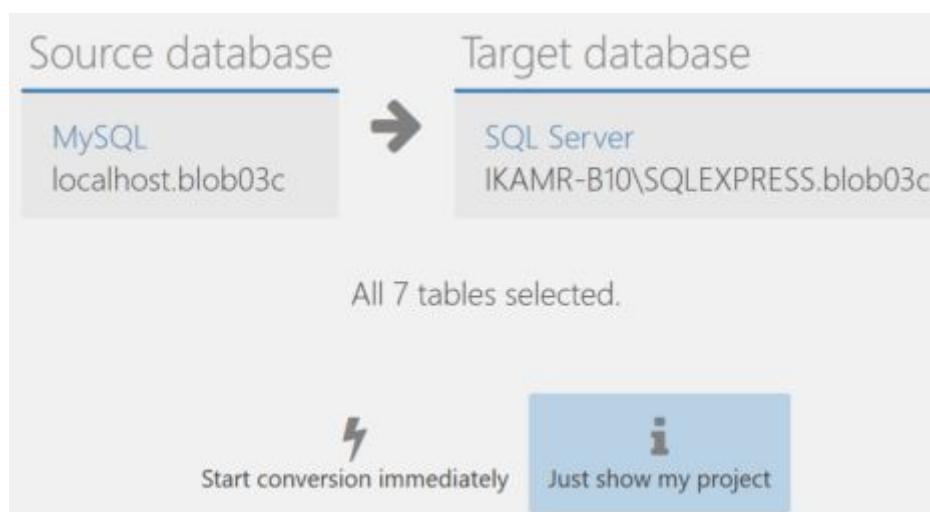
Port: 1433

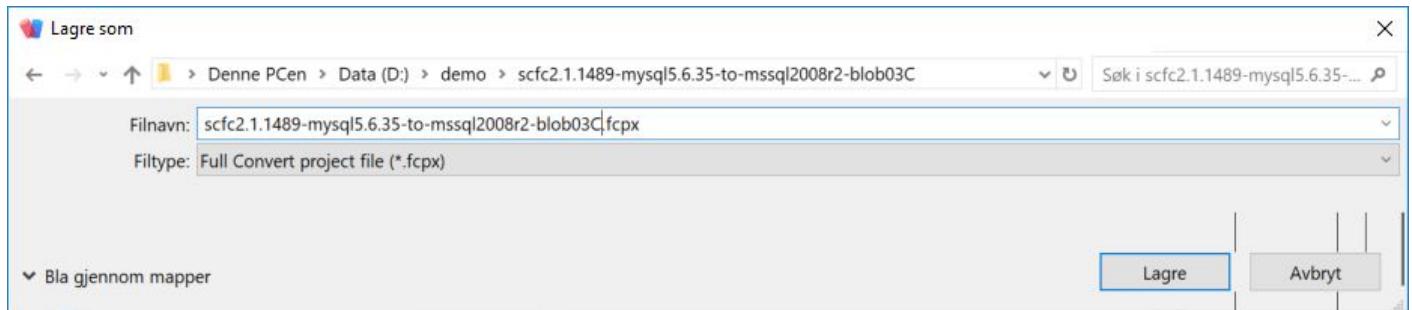
Encrypted

Trust server certificate

 Connect

Attempt to connect now





Log files

Auto-fill logs

Summary	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\ConversionSummary.log	
Errors	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\ConversionErrors.log	
All SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\ConversionSql.log	
Errored SQL	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\ConversionErrorSql.log	
JSON	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\Conversion.json	
Warnings	D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\ConversionWarnings.log	

Project information

D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03C.fcp

Source localhost.blob03c (MySQL)
 Target IKAMR-B10\SQLEXPRESS.blob03c (SQL Server)

All 7 tables selected.

Show tables
Change selection and mapping

Project options
Change project parameters

blob03d

Project information

D:\demo\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03D\scfc2.1.1489-mysql5.6.35-to-mssql2008r2-blob03D.fcp

Source localhost.blob03d (MySQL)
 Target IKAMR-B10\SQLEXPRESS.blob03d (SQL Server)

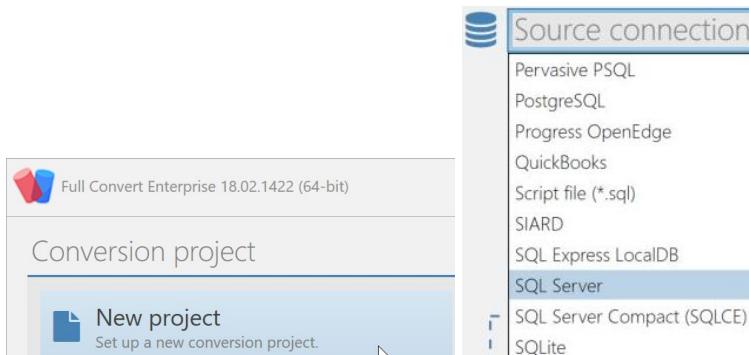
All 7 tables selected.

Show tables
Change selection and mapping

Project options
Change project parameters

H) SCFC demo MSSQL blob03intC using sa SYSADMIN

H1) Create “New project” and select Source connection “SQL Server”



H2) Source parameters: Enter server, user, password, database and click “Next”

Server: localhost, IP-address or valid DNS-name as seen from your client computer

MSSQL may have configured access as: <server>\<instance>

Example: IKAMR-B10\SQLEXPRESS where SQLEXPRESS is the default instance in MSSQL Express version
Authentication (radio button):

Windows: If SCFC is installed on the server or client with Windows authentication access to the database

SQL Server: Standard database SQL connection with username & password

Username: sa

Password: <sysadmin password>

Database: blob03c (can be selected from dropdown available databases or written as plain text)

Include views: unchecked (view data is saved like a table > get redundancy - only use if important to link view-data)

Optional

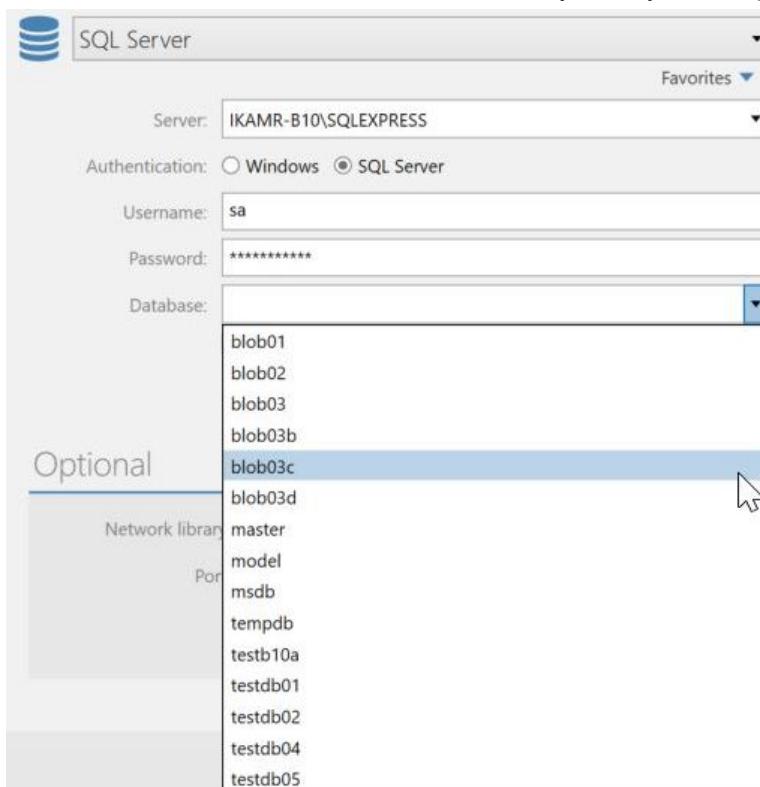
Network library: <default> to be used, but may target also: Named Pipes | TCP/IP | Shared Memory

Port: 1433 Default MSSQL port

Encrypted [] Checkbox default not checked

Trust server certificate [] Checkbox default not checked

With correct Server, Username and Password, you may use dropdown menu to select the correct Database.



With Database field filled, Dropdown selected or written, you may attempt to Connect.

SQL Server

Server: IKAMR-B10\SQLEXPRESS

Authentication: Windows SQL Server

Username: sa

Password: *****

Database: blob03c

Include views

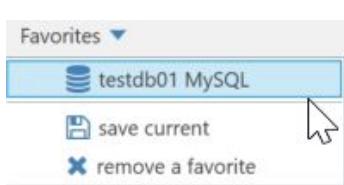
Optional

Network library: <default>

Port: 1433

Encrypted

Trust server certificate



TIP: The Favorites dropdown menu lets you Save and reuse Source connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

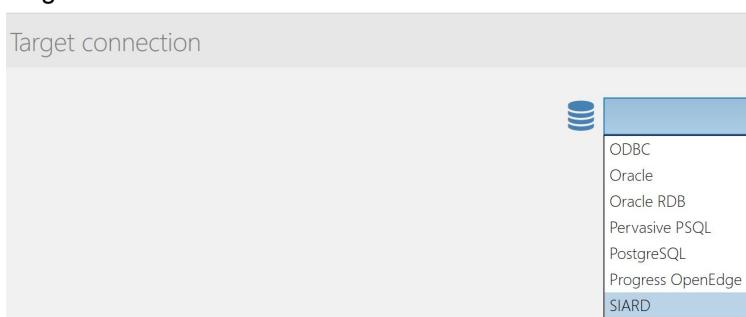
Click “Next” to continue to select Target.

If your Source connection fails to connect, your progress will halt and you will need to fix the Source login information.



H3) Select Target connection “SIARD”, enter top level metadata and click “Next”

Target connection: SIARD



Type or copy the SIARD path and filename directly into the “SIARD database field”.

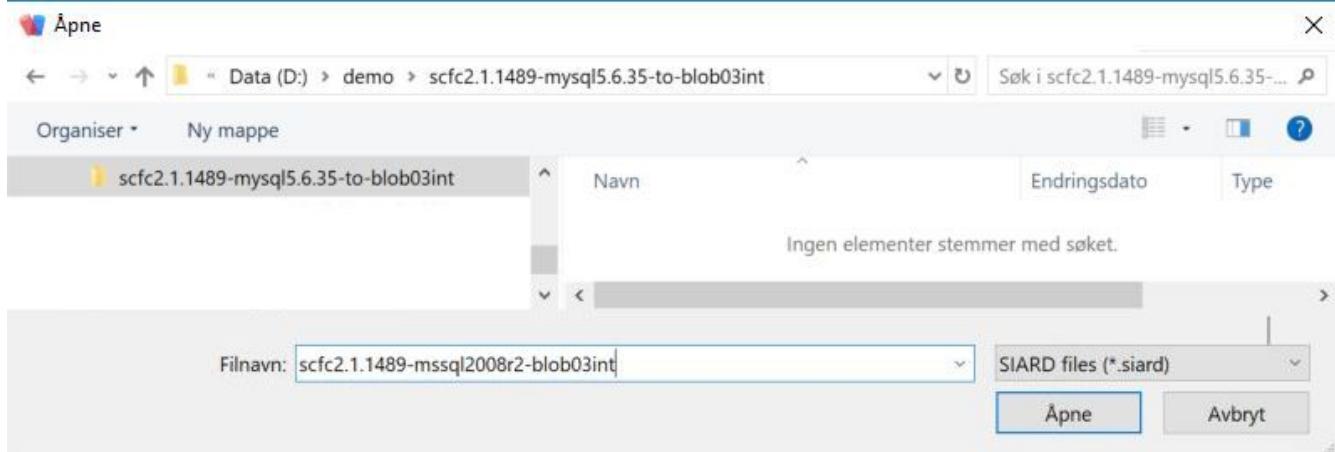
Or click the “Folder” icon to the right of the “SIARD database” field select folder and filename for the .siard file.



Example is selecting folder and typing filename:

D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intC\scfc2.1.1489-mysql5.6.35-to-blob03intC.siard

If using the “Folder” icon, click “Åpne” to select the Target .siard filename (you do not have to type in .siard at end)
[- The screenshot below is for MySQL blob03int and not MSSQL blob03intC]



Enter data for the remaining settings/metadata fields:

SIARD

Favorites

SIARD database: D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\scfc2.1.1489-mssql2008r2-to-blob03intC.siard

Compression: Optimal

Description: Description: blob03 with 7 tables. Table blobs with 3 030 rows with BLOBs col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal)

Archiver: Torbjørn Aasen

Archiver contact: torbjorn.aasen@ikamr.no

Data owner: 1599 Test kommune

Origin time span: 01.01.2011 - 31.12.2014

External LOB folder:

Use default external LOB folder
 Use default internal LOB folder

External LOB folder examples:

(empty entry) saves BLOBs internally in the *.SIARD file.

documents saves BLOBs externally to the "documents" folder in the current folder where *.SIARD file is created.

..\documents saves BLOBs externally to the "documents" folder in the parent folder of the current folder where *.SIARD file is created.

Compression: Optimal (default) | No compression | Fastest

Description: <Description of the meaning and content of the database as a whole> ([optional](#))

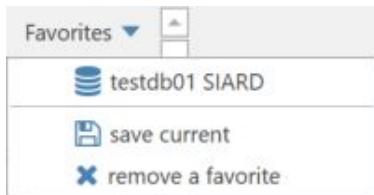
Archiver: <Name of the person who carried out the archiving of the table data from the database> ([optional](#))

Archiver contact: <Contact details, telephone, e-mail, of the Archiver> ([optional](#))

Data owner: <Owner of the database, Org; 15KK navn kommune eks "1504 Ålesund kommune"> ([mandatory](#))

Origin time span: <Origination period of the data in the database; approximate indication in text form> ([mandatory](#))

External LOB folder: <if empty all LOB elements stored inside .siard package, else in this external folder> ([optional](#))



TIP: The Favorites dropdown menu lets you Save and reuse Target connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

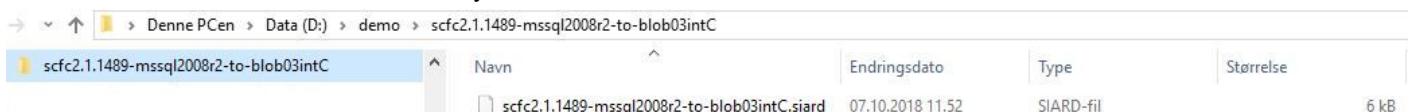
A good naming convention on .siard files and SCFC project names is recommended!

Click "Next" to continue.

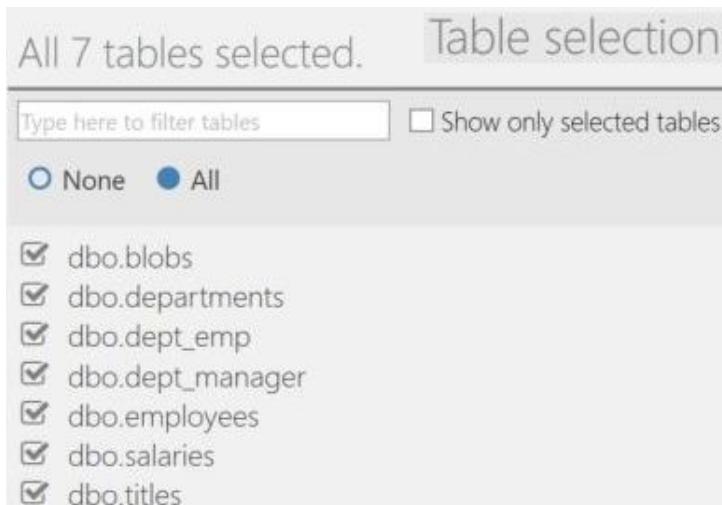
H4) Click "Yes" to create the .siard Target database file



A default .siard file is created without any data or metadata content

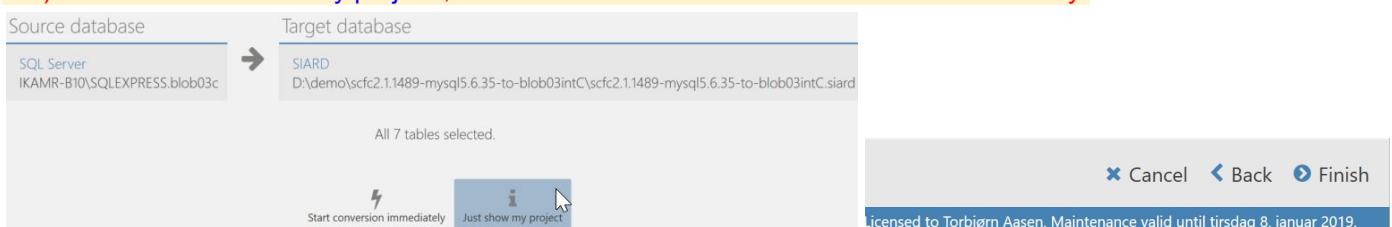


H5) Table selection - "All 7 tables selected"



Click "Next" to continue.

H6) NB! Click "Just show my project", as we do NOT want to "Start conversion immediately"



Click "Finish" to go to the Project main section.

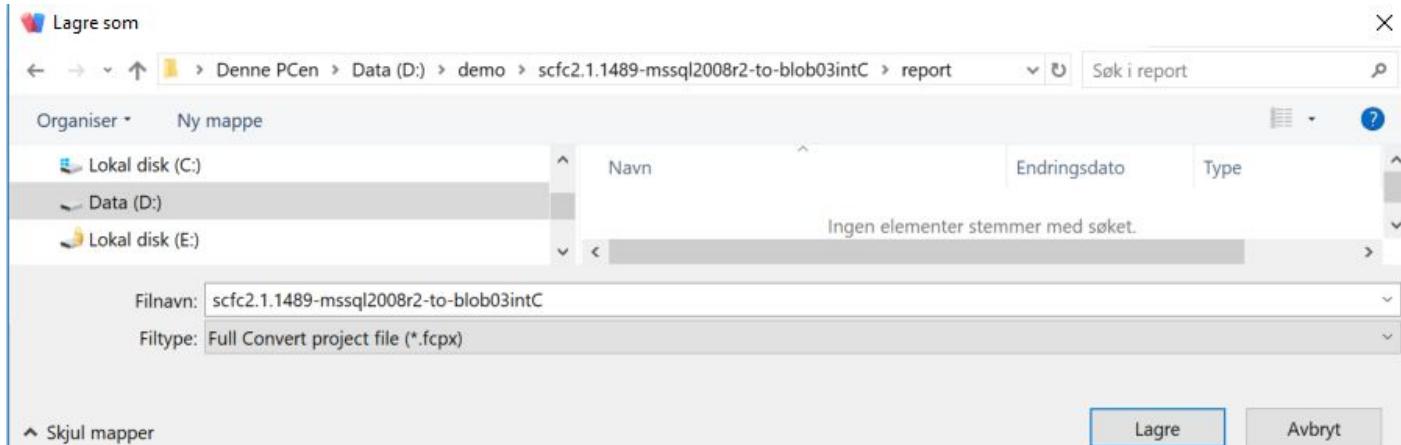
H7) Click “Save as...” to save the SCFC project file NB! Else your Project options and maybe more is lost!

Ex. start type start of .siard filename, here “scfc” in the Filnavn field, key arrow down, and remove ending .siard

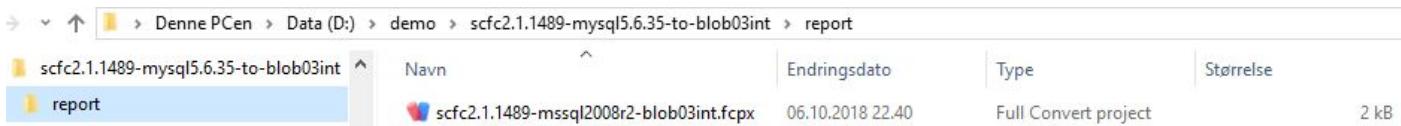
Filnavn:	scfc
Filtypet:	scfc2.1.1489-mssql2008r2-to-blob03intC.siard

NB! Next click button “Ny mappe” and create subdirectory ..\report and save the SCFC project filename there!

SCFC project filename = “..\report\scfc2.1.1489-mssql2008r2-to-blob03C.fcpx”.

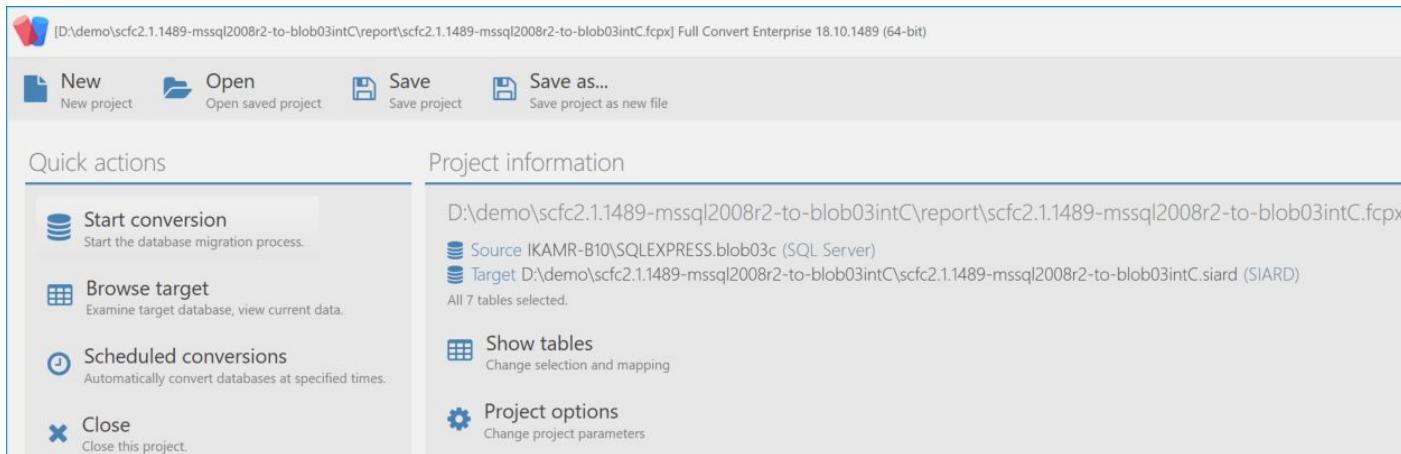


As a result the SCFC project file is saved in the ..\report subfolder, a subdirectory of where the .siard file is.



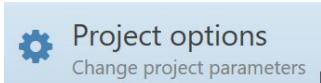
The SCFC project is saved and you can double-check the selectios as all parts are viewable:

Project folder, SCFC project file, Source database, Target .siard and number of tables selected.

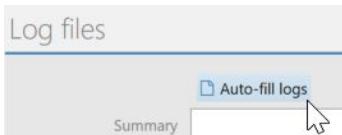


H8) Project options for enabling auto-logging

Click button “Project options” in the man section:



Click link “Auto-fill logs”

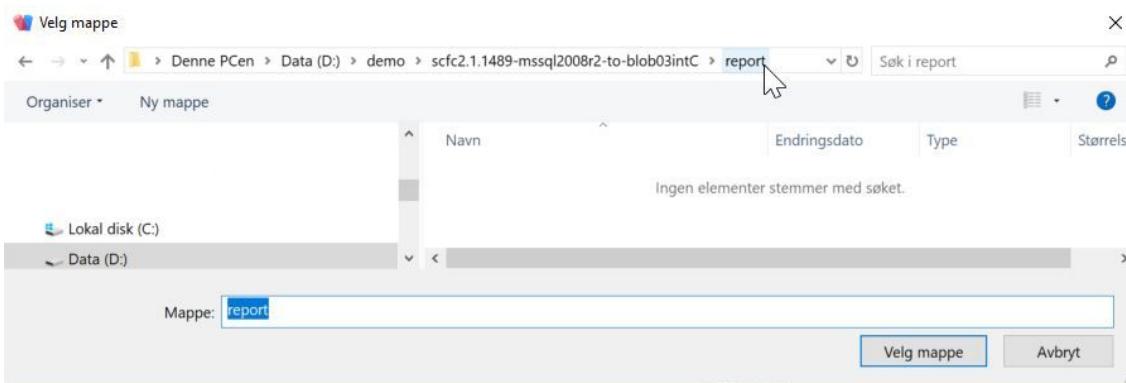


Click subfolder “report” which is shown because the SCFC project file is saved there.

NB! If SCFC Save Project As or Open Project was chosen, you must brows the folder to your correct “report” folder.

NB! If you do NOT to click “Auto-fill logs” once more in those cases, you may end up overwrite other project logs!

Click “Velg mappe” to auto-fill the log names.



The “Log files” section is auto-filled inside the SCFC project folder. NB! Double check that the path fits your project!

General

Table creation	Recreate tables
Data loading	Recreate data
<input checked="" type="checkbox"/> Create indexes	
<input checked="" type="checkbox"/> Create foreign keys	

Naming

Table prefix	
Name casing	Default

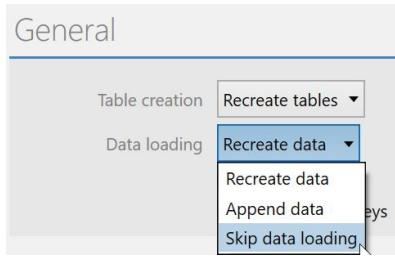
Log files

Auto-fill logs	
Summary	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\ConversionSummary.log
Errors	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\ConversionErrors.log
All SQL	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\ConversionSql.log
Errored SQL	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\ConversionErrorSql.log
JSON	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\Conversion.json
Warnings	D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\ConversionWarnings.log

Option: Write metadata only into the .siard file

Project options: General section

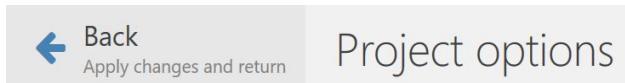
Field "Data loading", dropdown menu select "Skip data loading"



TIP: Advanced users may use the Project options section for:

[Mapping](#), [Run before conversion](#), [Run after conversion](#), [Databases](#), [Console email notification](#), [Troubleshooting](#)

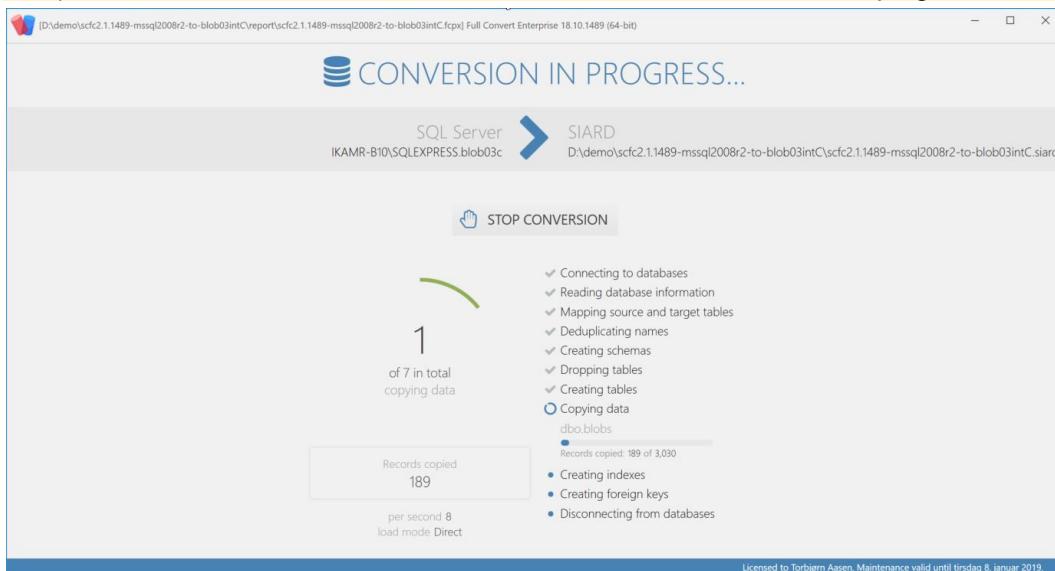
Click "Back" to return from "Project options" to the Main project window



H9) Click "Save" to save the SCFC project file

NB! Else your Project options and maybe more is lost!

H10) Click "Start conversion" to start the SIARD extraction and check the progress and result status



The blob03c test-database exports all tables from MSSQL 2008 R2 successfully.

Your conversion went perfectly, 634 690 records processed in 7 tables.

Copy time: 7 minutes, 46 seconds (1361 records per second on average).

Total time: 7 minutes, 52 seconds



Your conversion went perfectly. Congratulations!

634 690 records processed in 7 tables.

Copy time: 7 minutes, 46 seconds (1361 records per second on average)

Total time: 7 minutes, 52 seconds

[Back to overview](#)
Project overview screen.

[Browse target](#)
Examine target database, view current data.

[Log files](#)

The SIARD file size is 515 MB, which is expected with Compression = Optimal for the original 1.2 GB database blobs.

 scfc2.1.1489-mssql2008r2-to-blob03intC.siard 07.10.2018 12.12 SIARD-fil 515 303 kB

Your project\report folder now is filled with all the wanted logfiles (check with Windows Explorer).

NB! Both Error-logs and the Warning-log are empty because the SCFC SIARD-extraction had no errors or warnings!

Navn	Endringsdato	Type	Størrelse
Conversion.json	07.10.2018 12.12	JSON file	3 kB
ConversionErrors.log	07.10.2018 12.04	Tekstdokument	0 kB
ConversionErrorSql.log	07.10.2018 12.04	Tekstdokument	0 kB
ConversionSql.log	07.10.2018 12.12	Tekstdokument	2 kB
ConversionSummary.log	07.10.2018 12.12	Tekstdokument	2 kB
ConversionWarnings.log	07.10.2018 12.04	Tekstdokument	0 kB
 scfc2.1.1489-mssql2008r2-to-blob03intC.fcpx	07.10.2018 12.04	Full Convert project	2 kB

H11) Click "Log files" and examine the successrate and possibly warnings or problems to handle

Preferably instead check the logfiles yourself using Notepad++ or similar text editors directly in the SCFC project SIARD folder. Same goes for the SQL and JSON editors (Notepad++ may be used here as well).

Conversion Summary log

Full Convert Enterprise 18.10.1489

Licensed to Torbjørn Aasen

```
[2018-10-07 12.04.40] Starting SQL Server to SIARD conversion
[2018-10-07 12.04.40] Connected to databases
[2018-10-07 12.04.44] Read metadata
[2018-10-07 12.04.44] Mapped tables
[2018-10-07 12.04.44] Dropped tables (7 perfect, 0 with errors)
[2018-10-07 12.04.44] Created tables (7 perfect, 0 with errors)
[2018-10-07 12.12.32] Copied data to target tables (7 perfect, 0 with errors)
[2018-10-07 12.12.32] Created indexes (10 perfect, 0 with errors)
[2018-10-07 12.12.32] Created foreign keys (6 perfect, 0 with errors)
[2018-10-07 12.12.32] Disconnected from databases
[2018-10-07 12.12.32] Completed in 00:07:52
```

Project: D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\report\scfc2.1.1489-mssql2008r2-to-blob03intC.fcpx

Source: IKAMR-B10\SQLEXPRESS.blob03c (SQL Server)

Target: D:\demo\scfc2.1.1489-mssql2008r2-to-blob03intC\scfc2.1.1489-mssql2008r2-to-blob03intC.siard (SIARD)

Outcome: Perfect conversion, no errors

634 690 records processed in 7 tables

Copy time: 7 minutes, 46 seconds (1 361 records per second on average)

Total time: 7 minutes, 52 seconds

Conversion Warnings log

<is empty, no warnings encountered>

Conversion Errors log

<is empty, no error encountered>

Conversion SQL log

```
CREATE TABLE "blobs" (
    "idblobs" INT NOT NULL,
    "blobscol" BLOB NULL,
    "filename" VARCHAR(80) NULL,
    "size" INT NULL,
    "ext" VARCHAR(10) NULL,
    "extmismatch" INT NOT NULL,
    "puid" VARCHAR(10) NULL,
    "imetype" VARCHAR(100) NULL,
    "formatname" VARCHAR(50) NULL,
    "formatversion" VARCHAR(20) NULL
```

```

)
CREATE TABLE "departments" (
    "dept_no" CHAR(4) NOT NULL,
    "dept_name" VARCHAR(40) NOT NULL
)
CREATE TABLE "employees" (
    "emp_no" INT NOT NULL,
    "birth_date" DATE NOT NULL,
    "first_name" VARCHAR(14) NOT NULL,
    "last_name" VARCHAR(16) NOT NULL,
    "gender" CHAR(2) NOT NULL,
    "hire_date" DATE NOT NULL
)
CREATE TABLE "dept_emp" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "dept_manager" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "salaries" (
    "emp_no" INT NOT NULL,
    "salary" INT NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "titles" (
    "emp_no" INT NOT NULL,
    "title" VARCHAR(50) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NULL
)

```

Conversion Error SQL log

<is empty, no error encountered>

Conversion JSON

```
{
  "Tables": {
    "dbo.blobs": {
      "Schema": "dbo",
      "Name": "blobs",
      "Selected": true,
      "TargetSchema": "",
      "TargetName": "blobs",
      "Seconds": 444.978,
      "Records": 3030,
      "RecordsCopied": 3030,
      "RecordsPerSecond": 6.8093254048514753,
      "Valid": true,
      "Errors": []
    },
    "dbo.departments": {
      "Schema": "dbo",
      "Name": "departments",
      "Selected": true,
      "TargetSchema": "",
      "TargetName": "departments",
      "Seconds": 0.008,
      "Records": 9,
      "RecordsCopied": 9,
      "RecordsPerSecond": 1125.0,
    }
  }
}
```

```
"Valid": true,
"Errors": [],
},
"dbo.employees": {
"Schema": "dbo",
"Name": "employees",
"Selected": true,
"TargetSchema": "",
"TargetName": "employees",
"Seconds": 14.366,
"Records": 300024,
"RecordsCopied": 300024,
"RecordsPerSecond": 20884.31017680635,
"Valid": true,
"Errors": []
},
"dbo.dept_emp": {
"Schema": "dbo",
"Name": "dept_emp",
"Selected": true,
"TargetSchema": "",
"TargetName": "dept_emp",
"Seconds": 7.005,
"Records": 331603,
"RecordsCopied": 331603,
"RecordsPerSecond": 47338.044254104214,
"Valid": true,
"Errors": []
},
"dbo.dept_manager": {
"Schema": "dbo",
"Name": "dept_manager",
"Selected": true,
"TargetSchema": "",
"TargetName": "dept_manager",
"Seconds": 0.007,
"Records": 24,
"RecordsCopied": 24,
"RecordsPerSecond": 3428.5714285714284,
"Valid": true,
"Errors": []
},
"dbo.salaries": {
"Schema": "dbo",
"Name": "salaries",
"Selected": true,
"TargetSchema": "",
"TargetName": "salaries",
"Seconds": 0.004,
"Records": 0,
"RecordsCopied": 0,
"RecordsPerSecond": 0.0,
"Valid": true,
"Errors": []
},
"dbo.titles": {
"Schema": "dbo",
"Name": "titles",
"Selected": true,
"TargetSchema": "",
"TargetName": "titles",
"Seconds": 0.003,
"Records": 0,
"RecordsCopied": 0,
"RecordsPerSecond": 0.0,
"Valid": true,
"Errors": []
}
},
```

```
"Project": {  
    "TotalTables": 7,  
    "SelectedTables": 7,  
    "ValidTables": 7,  
    "InvalidTables": 0,  
    "Records": 634690,  
    "RecordsCopied": 634690,  
    "Result": "PERFECT",  
    "ResultDescription": "Perfect conversion, no errors",  
    "AverageRecordsPerSecond": 1361,  
    "Seconds": 472.5499999999995,  
    "DataLoadSeconds": 466.371,  
    "FatalError": null  
}  
}  
}
```

H12) Click “Browse target”

Click arrows at left of “blobs” Table and expand “Columns (10)” and “Indexes (1)” as you please.

Click centre content “Show table data” to look into the .siard file and browse the table data saved as xml-files there.

Click “Back” when done.



H13) Click “Back” to return SCFC main project overview

Continue do any needed/wanted adjustments and re-extraction.

You must delete/move all files except the .fcpx SCFC project file to do a complete re-extraciont with adjusted setup.

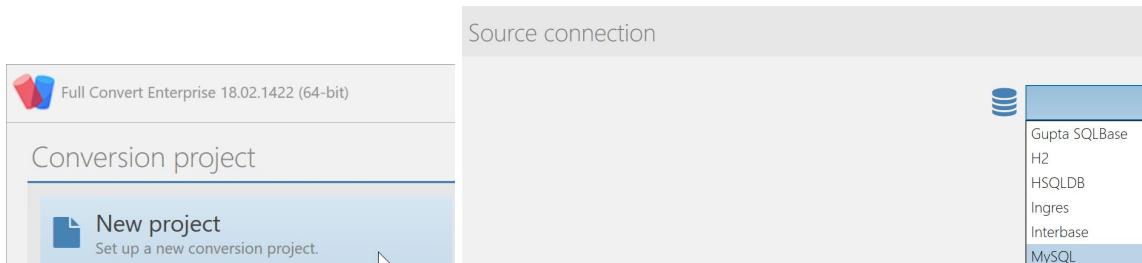
Advisable to move-copy the first files/logs to compare results in the adjusted extraction, then delet them later success.

If no adjustment or re-export is needed you are done.

And can move one using the .siard extraction in your production line (Documaster Decom or import to new database).

I) SCFC demo MySQL blob03intD using scfcadmin SYSADMIN

I1) Create “New project” and select Source connection “MySQL”



I2) Source parameters: Enter server, user, password, database and click “Next”

Server: localhost

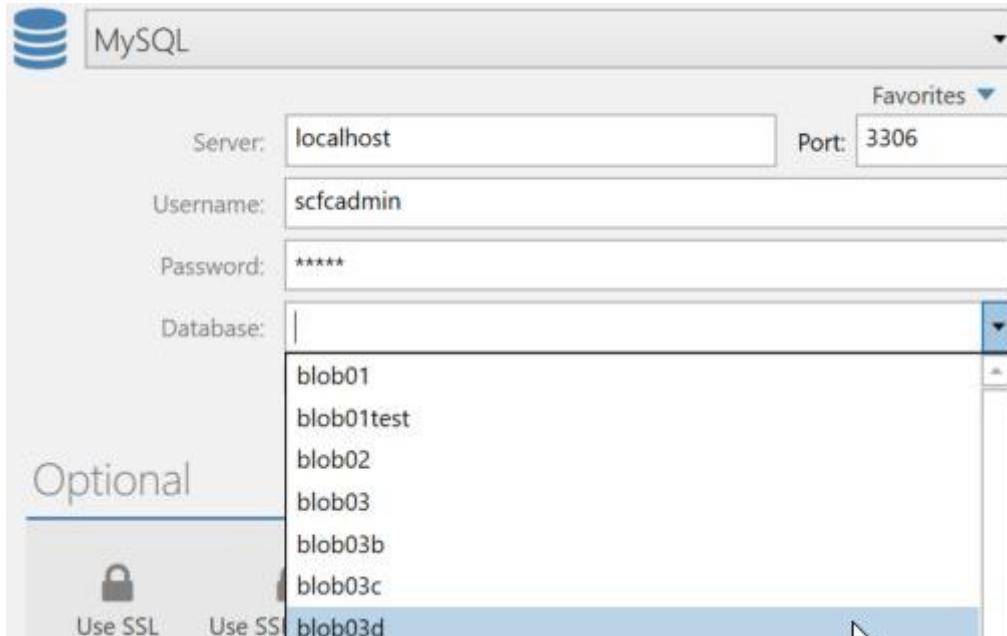
Username: scfcadmin

Password: <scfcadmin password>

Database: blob03d (can be selected from dropdown available databases or written as plain text)

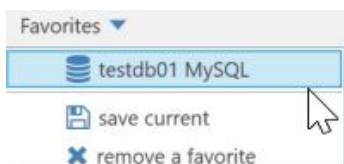
Include views: unchecked (view data is saved like a table > get redundancy - only use if important to link view-data)

With correct Server, Username and Password, you may use dropdown menu to select the correct Database.



With Database field filled, Dropdown selected or written, you may attempt to Connect.

The screenshot shows the MySQL connection configuration with the 'Database' field set to 'blob03d'. The 'Include views' checkbox is unchecked. Below the form is a 'Favorites' dropdown menu with an entry for 'testdb01 MySQL'.



TIP: The Favorites dropdown menu lets you Save and reuse Source connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

Click “Next” to continue to select Target.

If your Source connection fails to connect, your progress will halt and you will need to fix the Source login information.

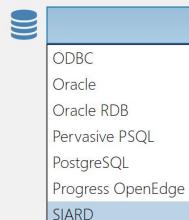
Cancel Back Next

Licensed to Torbjørn Aasen. Maintenance valid until tirsdag 8. januar 2019.

I3) Select Target connection “SIARD”, enter top level metadata and click “Next”

Target connection: SIARD

Target connection



Type or copy the SIARD path and filename directly into the “SIARD database field”.

Or click the “Folder” icon to the right of the “SIARD database” field select folder and filename for the .siard file.

SIARD database:



Example is selecting folder and typing filename:

D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intC\scfc2.1.1489-mysql5.6.35-to-blob03intC.siard

If using the “Folder” icon, click “Apne” to select the Target .siard filename (you do not have to type in .siard at end)

Enter data for the remaining settings/metadata fields:

SIARD

Favorites ▾

SIARD database:	D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD \scfc2.1.1489-mysql5.6.35-to-blob03intD.siard
Compression:	Optimal
Description:	Description: blob03 with 7 tables. Table blobs with 30 030 rows with BLOBs col/field. Extracted BLOB-documents saved inside .SIARD in folders (internal)
Archiver:	Torbjørn Aasen
Archiver contact:	torbjorn.aasen@ikamr.no
Data owner:	1599 Test kommune
Origin time span:	01.01.2011 - 31.12.2014
External LOB folder:	<input checked="" type="checkbox"/> Use default external LOB folder <input type="radio"/> Use default internal LOB folder
External LOB folder examples:	
(empty entry)	saves BLOBs internally in the *.SIARD file.
documents	saves BLOBs externally to the "documents" folder in the current folder where *.SIARD file is created.
..\documents	saves BLOBs externally to the "documents" folder in the parent folder of the current folder where *.SIARD file is created.

Compression: Optimal (default) | No compression | Fastest

Description: <Description of the meaning and content of the database as a whole> (**optional**)

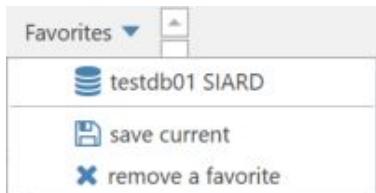
Archiver: <Name of the person who carried out the archiving of the table data from the database> (**optional**)

Archiver contact: <Contact details, telephone, e-mail, of the Archiver> (**optional**)

Data owner: <Owner of the database, Org; 15KK navn kommune eks “1504 Ålesund kommune”> (**mandatory**)

Origin time span: <Origination period of the data in the database; approximate indication in text form> (**mandatory**)

External LOB folder: <if empty all LOB elements stored inside .siard package, else in this external folder> (**optional**)



TIP: The Favorites dropdown menu lets you Save and reuse Target connection settings. To remove a favorite one need type in favorite saved name exactly as it is named.

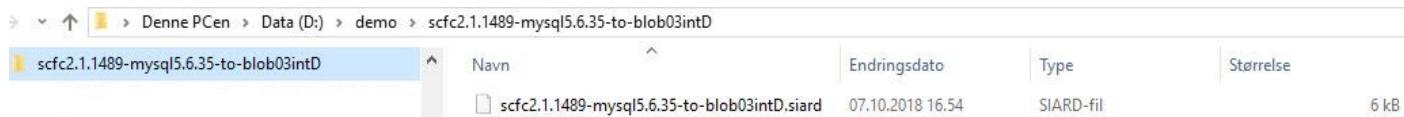
A good naming convention on .siard files and SCFC project names is recommended!

Click “[Next](#)” to continue.

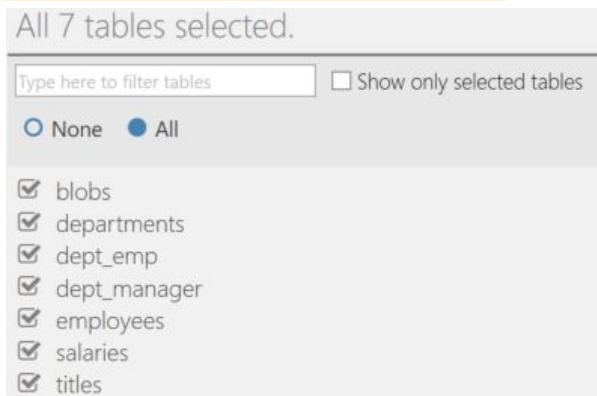
I4) Click “Yes” to create the .siard Target database file



A default .siard file is created without any data or metadata content

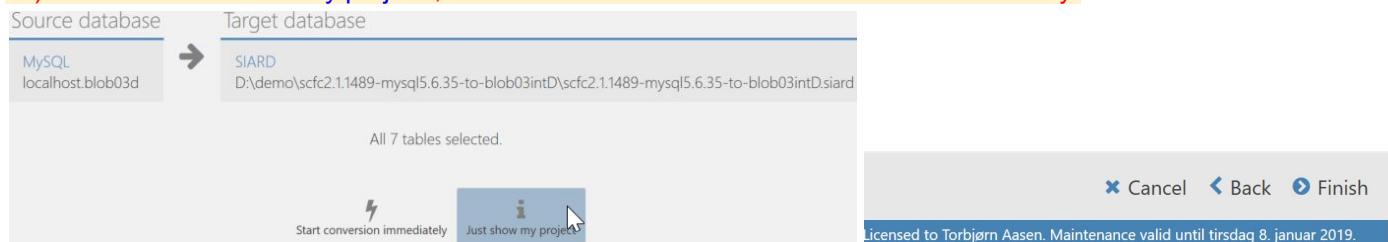


I5) Table selection - “All 7 tables selected”



Click “[Next](#)” to continue.

I6) NB! Click “Just show my project”, as we do NOT want to “Start conversion immediately”



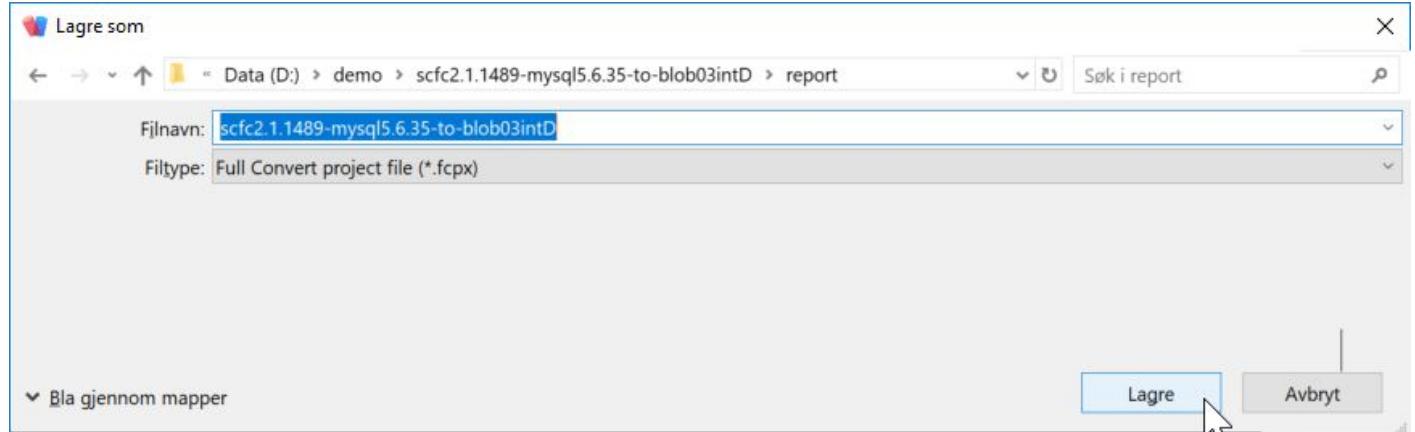
Click “[Finish](#)” to go to the Project main section.

I7) Click "Save as..." to save the SCFC project file NB! Else your Project options and maybe more is lost!

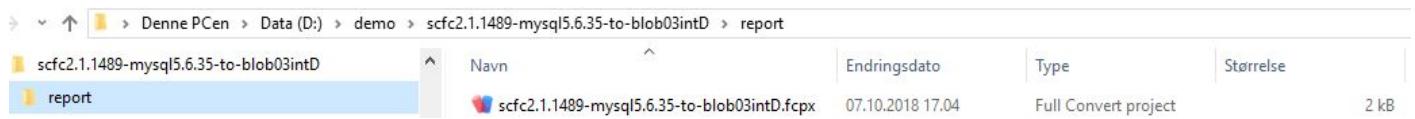
Ex. start type start of .siard filename, here "scfc" in the Filnavn field, key arrow down, and remove ending .siard

Filnavn: scfc
Filtype: scfc2.1.1489-mysql5.6.35-to-blob03intD.siard

NB! Next click button "Ny mappe" and create subdirectory ..\report and save the SCFC project filename there!
SCFC project filename = "..\report\scfc2.1.1489-mssql2008r2-to-blob03C.fcpx".

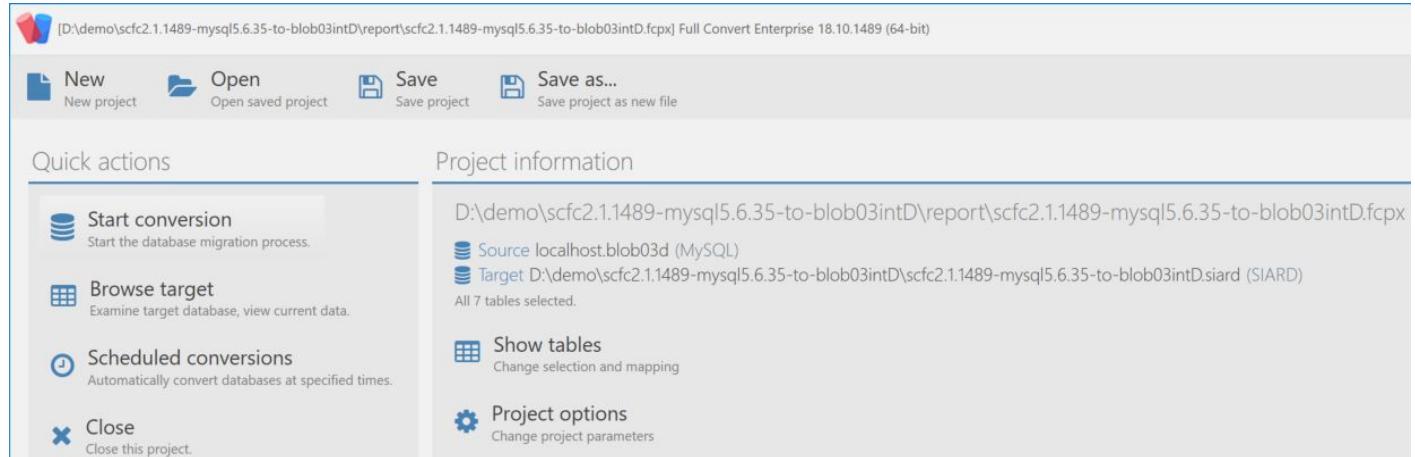


As a result the SCFC project file is saved in the ..\report subfolder, a subdirectory of where the .siard file is.



The SCFC project is saved and you can double-check the selectios as all parts are viewable:

Projct folder, SCFC project file, Source database, Target .siard and number of tables selected.

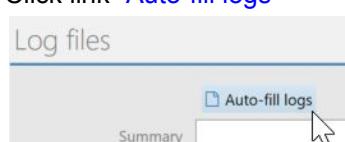


I8) Project options for enabling auto-logging

Click button "Project options" in the man section:



Click link "Auto-fill logs"



Click subfolder “[report](#)” which is shown because the SCFC project file is saved there.

NB! If SCFC Save Project As or Open Project was chosen, you must brows the folder to your correct “report” folder.

NB! If you do NOT to click “Auto-fill logs” once more in those cases, you may end up overwrite other project logs!

Click “[Velg mappe](#)” to auto-fill the log names.



The “Log files” section is auto-filled inside the SCFC project folder. NB! Double check that the path fits your project!

General

Table creation	Recreate tables
Data loading	Recreate data
<input checked="" type="checkbox"/> Create indexes	
<input checked="" type="checkbox"/> Create foreign keys	

Naming

Table prefix	<input type="text"/>
Name casing	Default

Log files

Auto-fill logs
Summary D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\ConversionSummary.log
Errors D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\ConversionErrors.log
All SQL D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\ConversionSql.log
Errored SQL D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\ConversionErrorSql.log
JSON D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\Conversion.json
Warnings D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\ConversionWarnings.log

Option: Write metadata only into the .siard file

Project options: General section

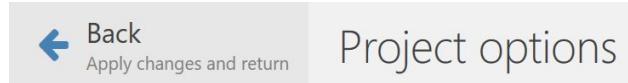
Field “Data loading”, dropdown menu select “Skip data loading”

General

Table creation	Recreate tables
Data loading	Recreate data
	Recreate data
	Append data
	Skip data loading

TIP: Advanced users may use the Project options section for:
[Mapping](#), [Run before conversion](#), [Run after conversion](#), [Databases](#), [Console email notification](#), [Troubleshooting](#)

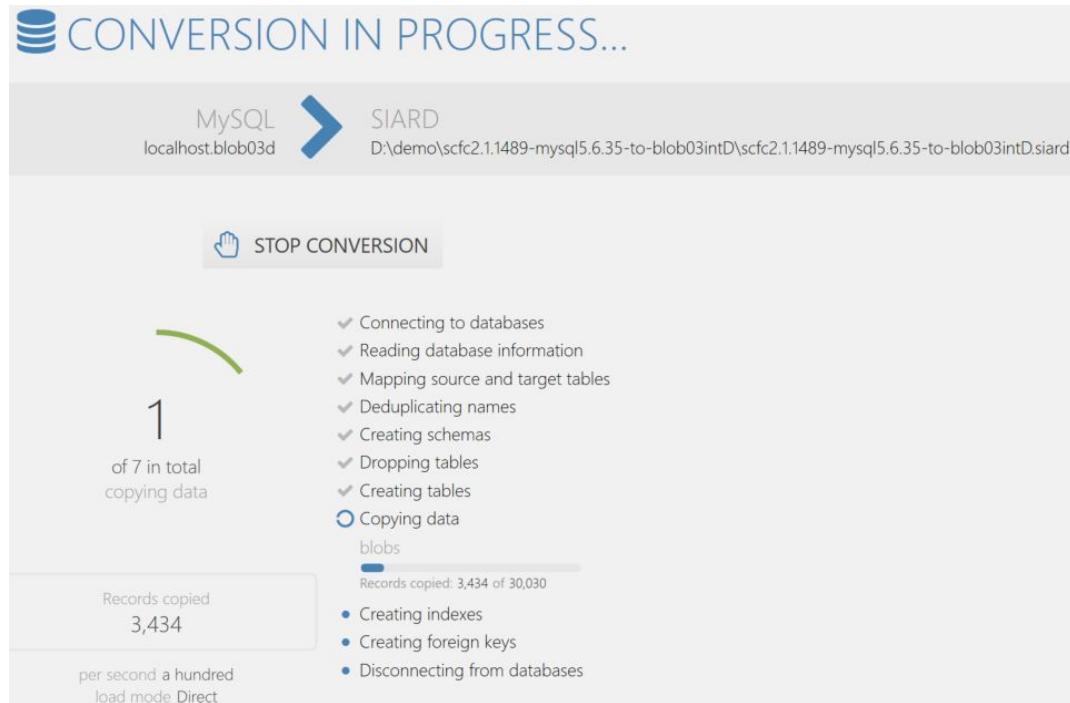
Click "Back" to return from "Project options" to the Main project window



I9) Click "Save" to save the SCFC project file

NB! Else your Project options and maybe more is lost!

I10) Click "Start conversion" to start the SIARD extraction and check the progress and result status

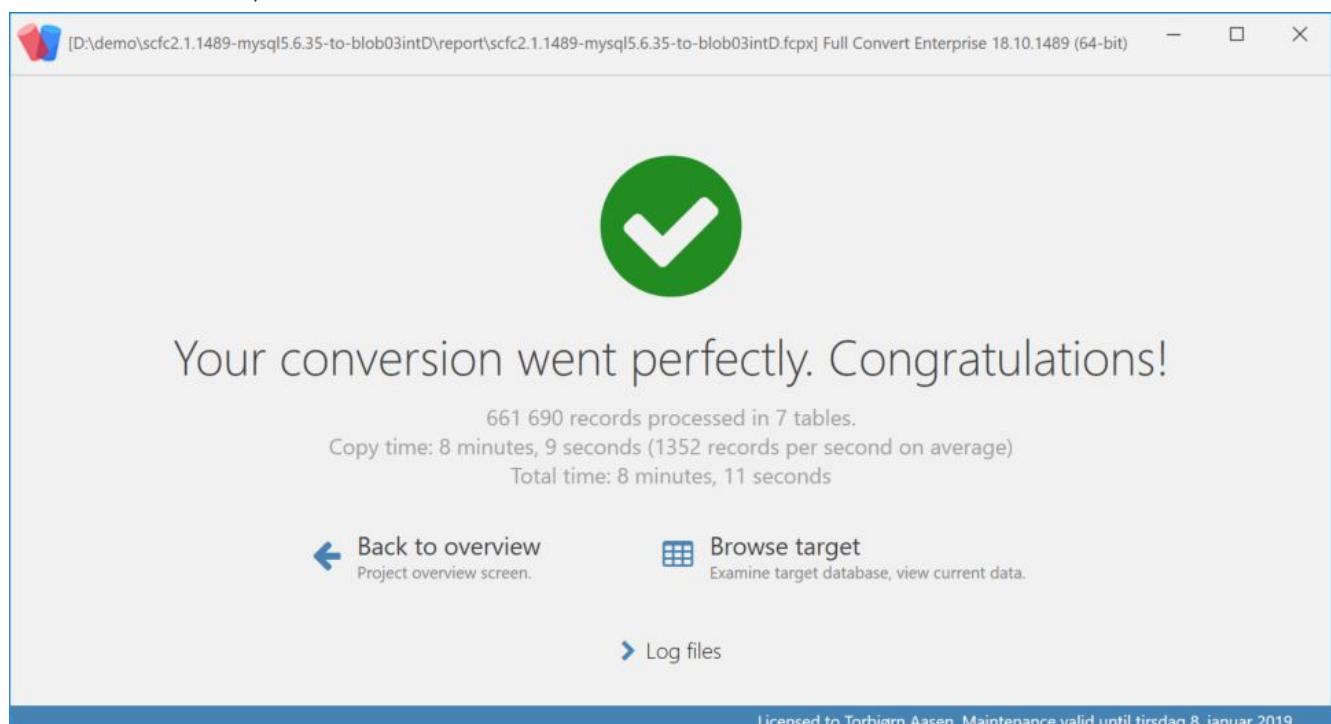


The blob03c test-database exports all tables from MSSQL 2008 R2 successfully.

Your conversion went perfectly, 661 690 records processed in 7 tables.

Copy time: 8 minutes, 9 seconds (1352 records per second on average).

Total time: 8 minutes, 11 seconds



The SIARD file size is 5 GB, which is expected with Compression = Optimal for the original 10 GB database blobs.

 scfc2.1.1489-mysql5.6.35-to-blob03intD.siard 07.10.2018 17.17 SIARD-fil 5 023 196 kB

Your project\report folder now is filled with all the wanted logfiles (check with Windows Explorer).

NB! Both Error-logs and the Warning-log are empty because the SCFC SIARD-extraction had no errors or warnings!

Navn	Endringsdato	Type	Størrelse
Conversion.json	07.10.2018 17.17	JSON file	3 kB
ConversionErrors.log	07.10.2018 17.09	Tekstdokument	0 kB
ConversionErrorSql.log	07.10.2018 17.09	Tekstdokument	0 kB
ConversionSql.log	07.10.2018 17.17	Tekstdokument	2 kB
ConversionSummary.log	07.10.2018 17.17	Tekstdokument	2 kB
ConversionWarnings.log	07.10.2018 17.09	Tekstdokument	0 kB
 scfc2.1.1489-mysql5.6.35-to-blob03intD.fcpx	07.10.2018 17.09	Full Convert project	2 kB

I11) Click "Log files" and examine the successrate and possibly warnings or problems to handle

Preferably instead check the logfiles yourself using Notepad++ or similar text editors directly in the SCFC project SIARD folder. Same goes for the SQL and JSON editors (Notepad++ may be used here as well).

Conversion Summary log

Full Convert Enterprise 18.10.1489

Licensed to Torbjørn Aasen

```
[2018-10-07 17.09.13] Starting MySQL to SIARD conversion
[2018-10-07 17.09.13] Connected to databases
[2018-10-07 17.09.13] Read metadata
[2018-10-07 17.09.13] Mapped tables
[2018-10-07 17.09.13] Dropped tables (7 perfect, 0 with errors)
[2018-10-07 17.09.13] Created tables (7 perfect, 0 with errors)
[2018-10-07 17.17.24] Copied data to target tables (7 perfect, 0 with errors)
[2018-10-07 17.17.24] Created indexes (10 perfect, 0 with errors)
[2018-10-07 17.17.24] Created foreign keys (6 perfect, 0 with errors)
[2018-10-07 17.17.24] Disconnected from databases
[2018-10-07 17.17.24] Completed in 00:08:11
```

Project: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\report\scfc2.1.1489-mysql5.6.35-to-blob03intD.fcpx

Source: localhost.blob03d (MySQL)

Target: D:\demo\scfc2.1.1489-mysql5.6.35-to-blob03intD\scfc2.1.1489-mysql5.6.35-to-blob03intD.siard (SIARD)

Outcome: Perfect conversion, no errors

661 690 records processed in 7 tables

Copy time: 8 minutes, 9 seconds (1 352 records per second on average)

Total time: 8 minutes, 11 seconds

Conversion Warnings log

<is empty, no warnings encountered>

Conversion Errors log

<is empty, no error encountered>

Conversion SQL log

```
CREATE TABLE "blobs" (
    "idblobs" INT NOT NULL,
    "blobscol" BLOB NULL,
    "filename" VARCHAR(80) NULL,
    "size" INT NULL,
    "ext" VARCHAR(10) NULL,
    "extMismatch" INT NOT NULL,
    "puid" VARCHAR(10) NULL,
    "mimeType" VARCHAR(100) NULL,
    "formatName" VARCHAR(50) NULL,
    "formatVersion" VARCHAR(20) NULL
```

```

)
CREATE TABLE "departments" (
    "dept_no" CHAR(4) NOT NULL,
    "dept_name" VARCHAR(40) NOT NULL
)
CREATE TABLE "employees" (
    "emp_no" INT NOT NULL,
    "birth_date" DATE NOT NULL,
    "first_name" VARCHAR(14) NOT NULL,
    "last_name" VARCHAR(16) NOT NULL,
    "gender" CHAR(2) NOT NULL,
    "hire_date" DATE NOT NULL
)
CREATE TABLE "dept_emp" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "dept_manager" (
    "emp_no" INT NOT NULL,
    "dept_no" CHAR(4) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "salaries" (
    "emp_no" INT NOT NULL,
    "salary" INT NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NOT NULL
)
CREATE TABLE "titles" (
    "emp_no" INT NOT NULL,
    "title" VARCHAR(50) NOT NULL,
    "from_date" DATE NOT NULL,
    "to_date" DATE NULL
)

```

Conversion Error SQL log

<is empty, no error encountered>

Conversion JSON

```
{
  "Tables": {
    "blobs": {
      "Schema": "",
      "Name": "blobs",
      "Selected": true,
      "TargetSchema": "blob03d",
      "TargetName": "blobs",
      "Seconds": 465.4,
      "Records": 30030,
      "RecordsCopied": 30030,
      "RecordsPerSecond": 64.52513966480447,
      "Valid": true,
      "Errors": []
    },
    "departments": {
      "Schema": "",
      "Name": "departments",
      "Selected": true,
      "TargetSchema": "blob03d",
      "TargetName": "departments",
      "Seconds": 0.008,
      "Records": 9,
      "RecordsCopied": 9,
      "RecordsPerSecond": 1125.0,
      "Valid": true,
      "Errors": []
    }
  }
}
```

```
},
"employees": {
  "Schema": "",
  "Name": "employees",
  "Selected": true,
  "TargetSchema": "blob03d",
  "TargetName": "employees",
  "Seconds": 15.579,
  "Records": 300024,
  "RecordsCopied": 300024,
  "RecordsPerSecond": 19258.232235701904,
  "Valid": true,
  "Errors": []
},
"dept_emp": {
  "Schema": "",
  "Name": "dept_emp",
  "Selected": true,
  "TargetSchema": "blob03d",
  "TargetName": "dept_emp",
  "Seconds": 8.426,
  "Records": 331603,
  "RecordsCopied": 331603,
  "RecordsPerSecond": 39354.735342985994,
  "Valid": true,
  "Errors": []
},
"dept_manager": {
  "Schema": "",
  "Name": "dept_manager",
  "Selected": true,
  "TargetSchema": "blob03d",
  "TargetName": "dept_manager",
  "Seconds": 0.002,
  "Records": 24,
  "RecordsCopied": 24,
  "RecordsPerSecond": 12000.0,
  "Valid": true,
  "Errors": []
},
"salaries": {
  "Schema": "",
  "Name": "salaries",
  "Selected": true,
  "TargetSchema": "blob03d",
  "TargetName": "salaries",
  "Seconds": 0.001,
  "Records": 0,
  "RecordsCopied": 0,
  "RecordsPerSecond": 0.0,
  "Valid": true,
  "Errors": []
},
"titles": {
  "Schema": "",
  "Name": "titles",
  "Selected": true,
  "TargetSchema": "blob03d",
  "TargetName": "titles",
  "Seconds": 0.001,
  "Records": 0,
  "RecordsCopied": 0,
  "RecordsPerSecond": 0.0,
  "Valid": true,
  "Errors": []
}
},
"Project": {
  "TotalTables": 7,
```

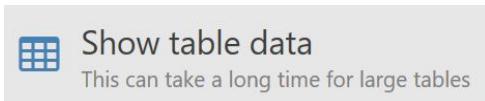
```
"SelectedTables": 7,  
"ValidTables": 7,  
"InvalidTables": 0,  
"Records": 661690,  
"RecordsCopied": 661690,  
"Result": "PERFECT",  
"ResultDescription": "Perfect conversion, no errors",  
"AverageRecordsPerSecond": 1352,  
"Seconds": 491.1389999999995,  
"DataLoadSeconds": 489.417,  
"FatalError": null  
}  
}
```

H12) Click “Browse target”

Click arrows at left of “blobs” Table and expand “Columns (10)” and “Indexes (1)” as you please.

Click centre content “Show table data” to look into the .siard file and browse the table data saved as xml-files there.

Click “Back” when done.



NB! Large/wide tables may take a while to load!

H13) Click “Back” to return SCFC main project overview

Continue do any needed/wanted adjustments and re-extraction.

You must delete/move all files except the .fcpx SCFC project file to do a complete re-extraciont with adjusted setup.

Advisable to move-copy the first files/logs to compare results in the adjusted extraction, then delet them later success.

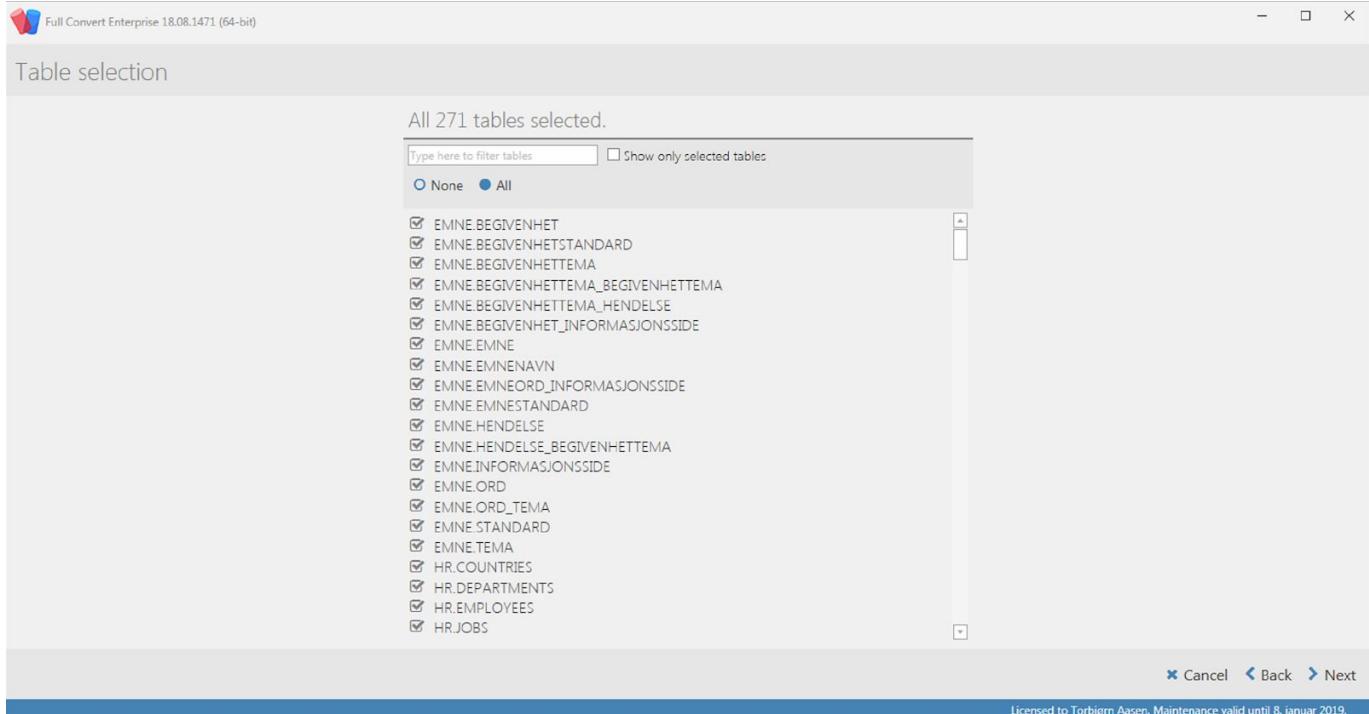
If no adjustment or re-export is needed you are done.

And can move one using the .siard extraction in your production line (Documaster Decom or import to new database).

J) Filtering SCFC Oracle multiple Databases.Tables

By default all Databases.Tables that the selected Oracle user have access to is selected.

All 271 tables selected



Type the filter phrase, often the Database name to target all Tables for that Database.

Example: "nyeasta" filters out all "NYEASTA.<Tables>"

Click "Toggle listed" to select all the Tables that the filter has chosen.

- A double check of all selected is needed in case the filter name is also a Table partial name another Database

No tables are selected!

This part of the screenshot shows the same 'Table selection' dialog, but with a search term 'nyeasta' entered in the search bar. The 'None' radio button is selected, and the 'All' and 'Toggle listed' buttons are unselected. The list of tables is empty.

228 out of 271 tables selected.

This part of the screenshot shows the same 'Table selection' dialog after applying the filter 'nyeasta'. The 'None' radio button is unselected, and the 'All' and 'Toggle listed' buttons are selected. The list of tables now shows 228 tables that match the filter, all of which are checked.

Remove the filter text to show all Tables once more.

Scroll up and down and double check that the current Table selection is accurate.

Click "Show only selected tables" to get back to the selected Tables only.

228 out of 271 tables selected.

Type here to filter tables Show only selected tables

None All

- KOBLINGSPROTOKOLL.TEKSTUTTRYKK
- KOBLINGSPROTOKOLL.UTTRYKK
- NYEASTA.ADRESSE
- NYEASTA.AKKUMULATOR
- NYEASTA.AKKUMULATOR_SPRAK
- NYEASTA.AKSESJON
- NYEASTA.AKTAKS
- NYEASTA.AKTBEV
- NYEASTA.AKTJOU
- NYEASTA.AKTKOMMUNE
- NYEASTA.AKTNÆR
- NYEASTA.AKTNOKK
- NYEASTA.AKTOR
- NYEASTA.AKTORG
- NYEASTA.AKTORGRUPPE
- NYEASTA.AKTORGRUPPE_SPRAK
- NYEASTA.AKTORLOGG
- NYEASTA.AKTORNAVN
- NYEASTA.AKTORRELASJON
- NYEASTA.AKTORTYPE
- NYEASTA.AKTORTYPE_SPRAK

228 out of 271 tables selected.

Type here to filter tables Show only selected tables

None All

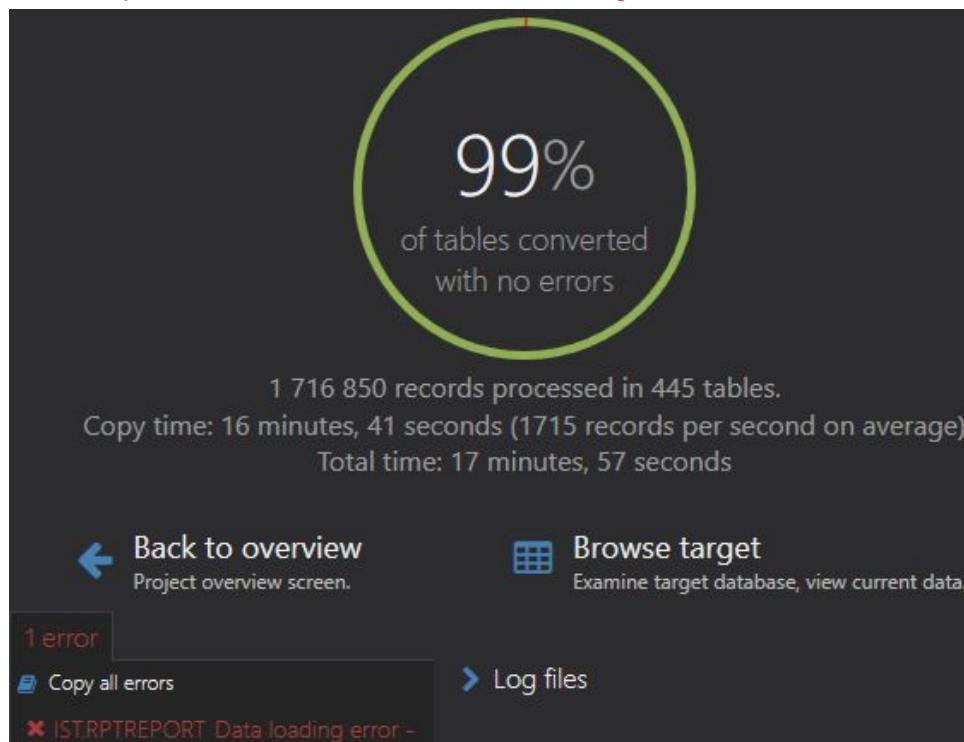
- NYEASTA.ADRESSE
- NYEASTA.AKKUMULATOR
- NYEASTA.AKKUMULATOR_SPRAK
- NYEASTA.AKSESJON
- NYEASTA.AKTAKS
- NYEASTA.AKTBEV
- NYEASTA.AKTJOU
- NYEASTA.AKTKOMMUNE
- NYEASTA.AKTNÆR
- NYEASTA.AKTNOKK
- NYEASTA.AKTOR
- NYEASTA.AKTORG
- NYEASTA.AKTORGRUPPE
- NYEASTA.AKTORGRUPPE_SPRAK
- NYEASTA.AKTORLOGG
- NYEASTA.AKTORNAVN
- NYEASTA.AKTORRELASJON
- NYEASTA.AKTORTYPE
- NYEASTA.AKTORTYPE_SPRAK
- NYEASTA.AKTORURN
- NYEASTA.AKTOR_DD_RELASJON

K) SCFC handling conversion Table Column errors

If the [SCFC Conversion](#) not reach 100% Succes, then one need inspect the [Error section](#) and link at bottom.

Click the Error link to display the Error subjects and check all the SCFC logfiles for details.

The example shows "IST.RPTREPORT Data loading error -"



Click "Back to overview" and click "Show tables"

A Table may be unchecked to exclude that Table from the Source conversion.

A Table with current error are automatically skipped, shown as Red Triangle with Exclamation mark

Click [Edit pencil](#) to investigate and edit that Table columns.

Quick actions

 **Start conversion**
Start the database migration process.

 **Browse target**
Examine target database, view current data.

 **Scheduled conversions**
Automatically convert databases at specified times.

 **Close**
Close this project.

Project tables

445 out of 520 tables selected.

Show selected only

[Back](#) None All Type here to filter tables

- ARENA_EXCHANGE.EVENTLOG [Edit](#)
- ARENA_EXCHANGE.EVENTLOG_EXT [Edit](#)
- ARENA_EXCHANGE.FAG [Edit](#)
-  ARENA_EXCHANGE.HANSATT [Edit](#)
Some columns are not mapped
- ARENA_EXCHANGE.HELEV [Edit](#)
- ARENA_EXCHANGE.PERSON [Edit](#)
- ARENA_EXCHANGE.PERSONAAR [Edit](#)
- IST.ADDRESSEE [Edit](#)
-  IST.AKTIVITET [Edit](#)
Some columns are not mapped
-  IST.AKTIVITETSEKSAMEN [Edit](#)
Some columns are not mapped
-  IST.AKTIVITETSMERKNAD [Edit](#)
Some columns are not mapped
- IST.AMNE [Edit](#)
-  IST.ANSTALLKURSGRUPP [Edit](#)
Some columns are not mapped
-  IST.ANSTALLNING [Edit](#)
Some columns are not mapped

This table view clearly shows Red Triangle with Exclamation mark and “Some columns are not mapped”

Uncheck a column with Red Triangle with Exclamation mark to skip handling this column and get rid of the Error.

- This [float](#) column will miss in the Target, but the test will show if the edited Table Columns resultes in 100% success
- A Table will NOT be included in Target unless all similar problems har handeled/corrected!

[Apply and back](#) [Use manual mode](#) Deselect all Select all



Using automatic mapping.

Target table name, column names and optimal datatypes will be automatically chosen by the application.

ARENA_EXCHANGE.HANSATT → ARENA_EXCHANGE.HANSATT

Some columns are not mapped

<input checked="" type="checkbox"/> PERSONID varchar2(11)	→ PERSONID CHARACTER VARYING(11)
<input checked="" type="checkbox"/> ENHET varchar2(10)	→ ENHET CHARACTER VARYING(10)
<input checked="" type="checkbox"/> SIGN varchar2(5)	→ SIGN CHARACTER VARYING(5)
<input checked="" type="checkbox"/> ANSATTNR varchar2(15)	→ ANSATTNR CHARACTER VARYING(15)
<input checked="" type="checkbox"/>  ANSATTPROS float	→ ANSATTPROS
<input checked="" type="checkbox"/> STATUS varchar2(5)	→ STATUS CHARACTER VARYING(5)
<input checked="" type="checkbox"/> ENHETSTATUS varchar2(5)	→ ENHETSTATUS CHARACTER VARYING(5)

Custom WHERE expression when reading source table (example: ID > 3000)

Table mapping details and options

Edit Table Column mapping

- All Columns may manually mapped towards the Target side:
fieldname, fieldtype, Not null, Incrementing, Default value
- Recreate tables | Expect existing tables
- Recreate data | Append data | Skip data loading
- [] Create indexes (checkbox, default checked)
- [] Create foreign keys (checkbox, default checked)

← Apply and back Use automatic mode Deselect all Select all

Using manual mapping.
You are free to change target table name, column names and datatypes. Source table structure is expected not to change.

Recreate tables Recreate data
 Create indexes Create foreign keys

dbo.blobs → blobs ▾

Source Column	Target Table	Type	Length	Not Null	Incrementing	Default Value
idblobs int	→ idblobs	INT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	default value
blobscol varbinary(max)	→ blobscol	BLOB		<input type="checkbox"/>	<input type="checkbox"/>	default value
filename varchar(80)	→ filename	VARCHAR	80	<input type="checkbox"/>	<input type="checkbox"/>	default value
size int	→ size	INT		<input type="checkbox"/>	<input type="checkbox"/>	default value
ext varchar(10)	→ ext	VARCHAR	10	<input type="checkbox"/>	<input type="checkbox"/>	default value
extmismatch smallint	→ extmismatch	INT		<input checked="" type="checkbox"/>	<input type="checkbox"/>	default value
puid varchar(10)	→ puid	VARCHAR	10	<input type="checkbox"/>	<input type="checkbox"/>	default value
mimetype varchar(100)	→ mimetype	VARCHAR	100	<input type="checkbox"/>	<input type="checkbox"/>	default value
formatname varchar(50)	→ formatname	VARCHAR	50	<input type="checkbox"/>	<input type="checkbox"/>	default value
formatversion varchar(20)	→ formatversion	VARCHAR	20	<input type="checkbox"/>	<input type="checkbox"/>	default value

Custom WHERE expression when reading source table (example: ID > 3000)

Apply and back

Use manual mode

Use automatic mode

Deselect all

Select all

Confirm changes

Switch to manually mapping (for advanced users only)

Switch to automatic mode (default)

Deselect all Table Columns

Select all Table Columns

Custom WHERE

Limit the number of rows this Table will include sent to the Target Database Table.

The Database type and version rules for the SQL WHERE clause must be correctly formatted.

NB! Look at the "Custom WHERE expression when reading source table (example: ID > 3000). Explained at bottom.

PostgreSQL examples:

LEFT(filid,2) = '04'

CAST(LEFT(filid,2) AS INTEGER) BETWEEN 5 AND 8