

**LAPORAN DATA WAREHOUSE
ETL TABEL KE DIMENSI KARYAWAN DAN
CABANG**

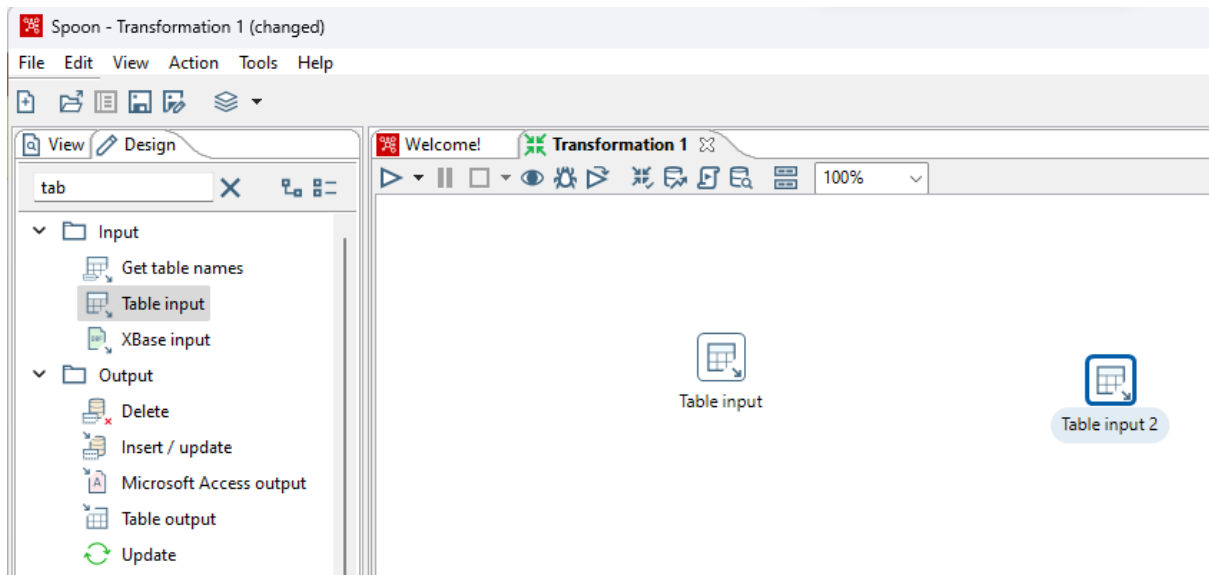
Dosen Pengampu : Edi Satriyanto,S.Si., M.Si



**Bagas Cahya Fajar Bastian
3322600016**

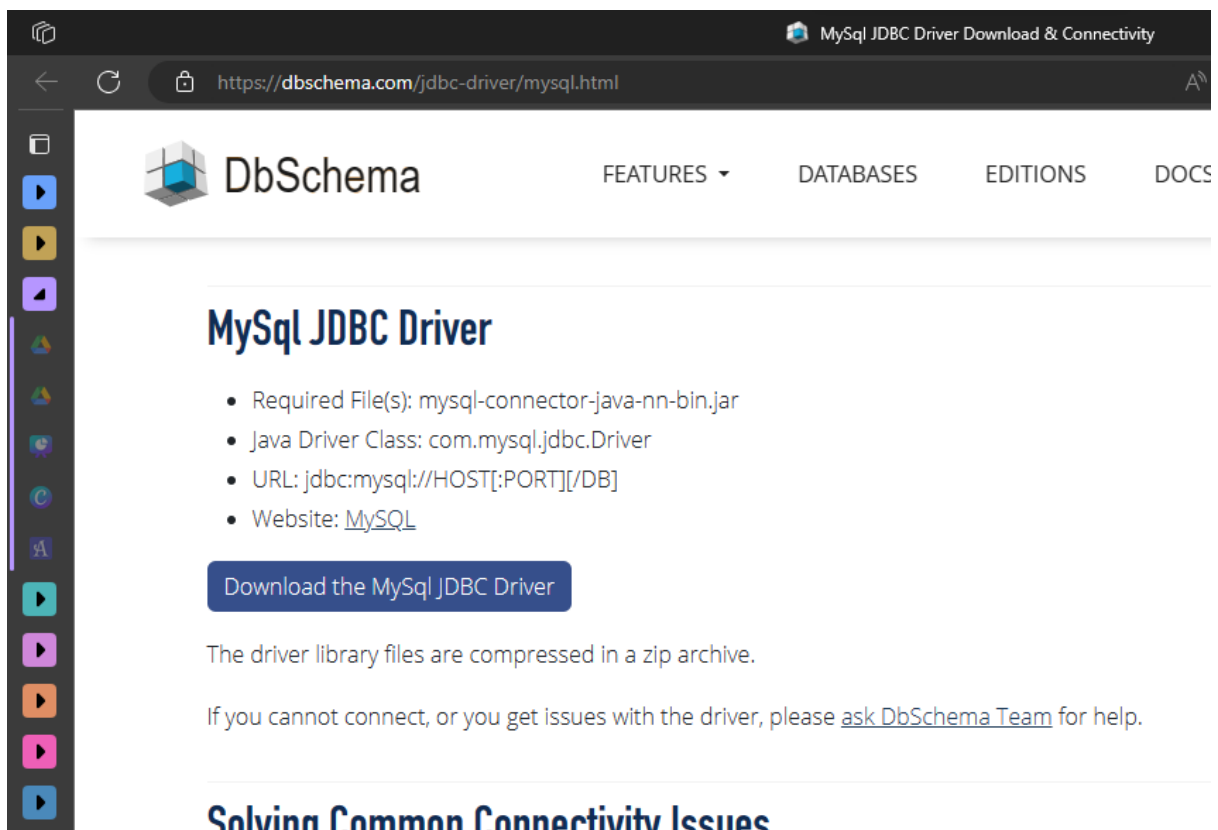
**POLITEKNIK ELEKTRONIKA NEGERI SURABAYA
DEPARTEMEN TEKNIK INFORMATIKA DAN KOMPUTER
SAINS DATA TERAPAN
FEBRUARI 2024**

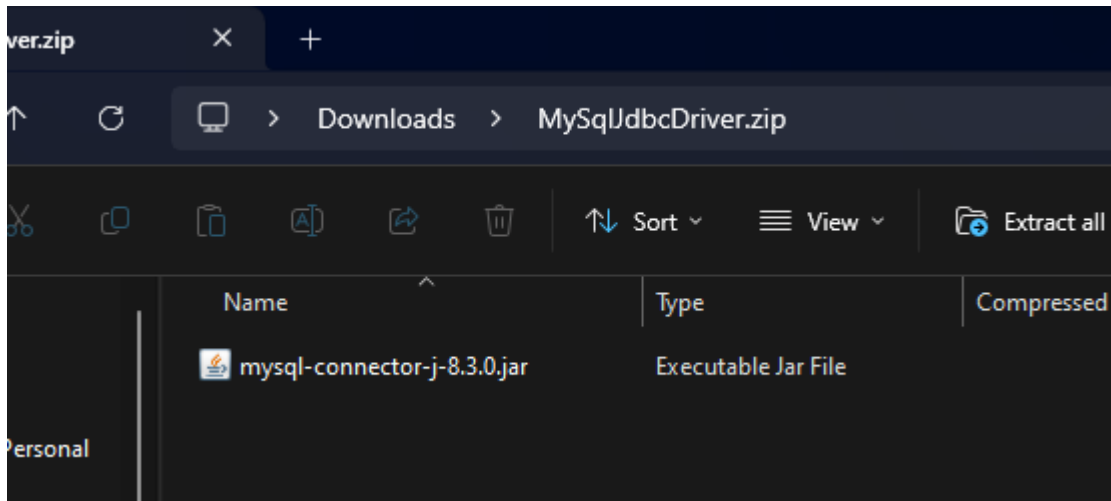
MEMBUAT ETL



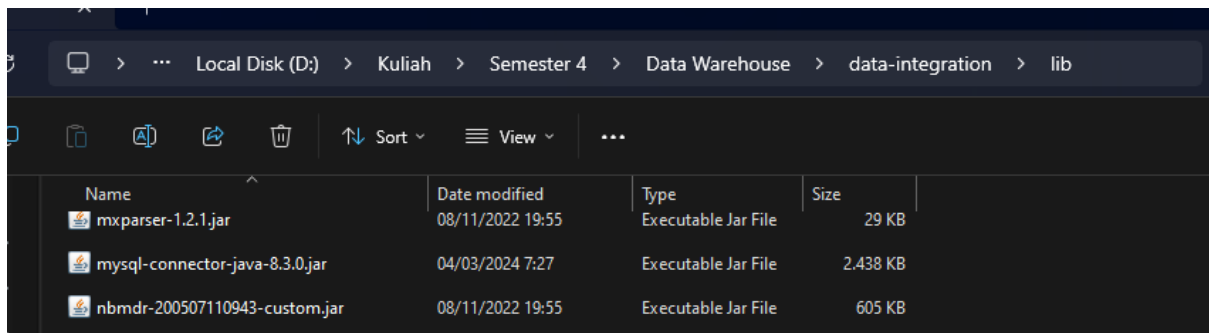
Download Mysql connector pada link berikut:

<https://dbschema.com/jdbc-driver/mysql.html>

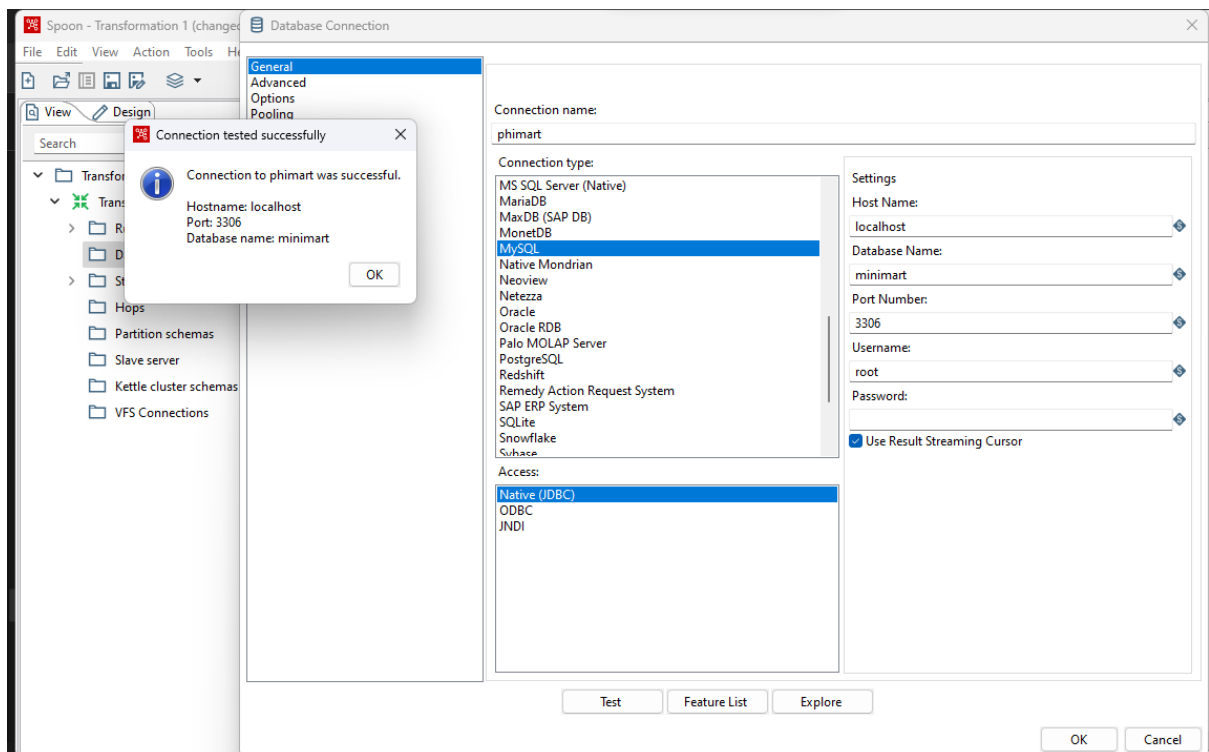


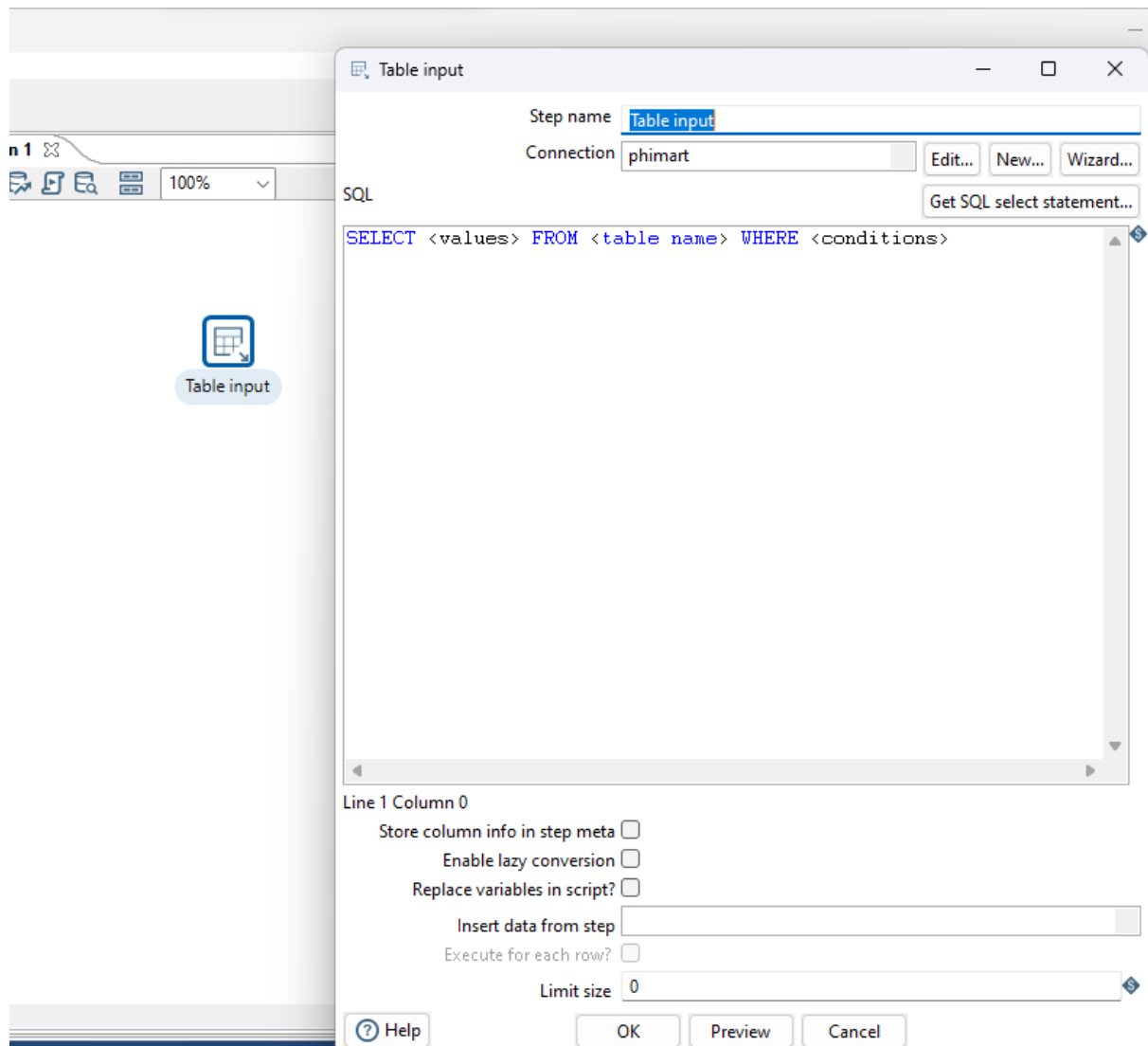


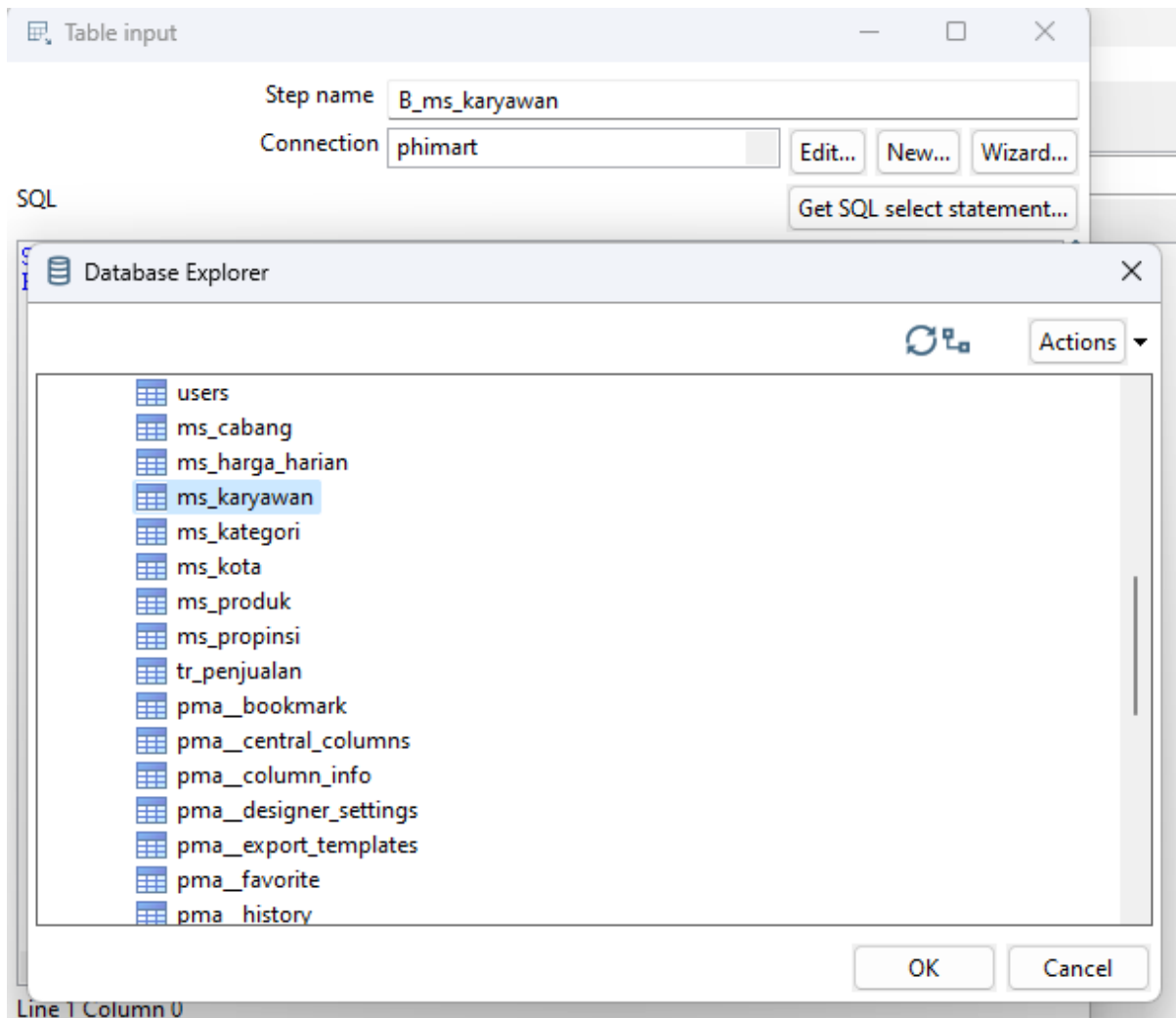
Copy kedalam library pentaho dan rubah Namanya menjadi mysql-connector-java-8.3.0.jar :

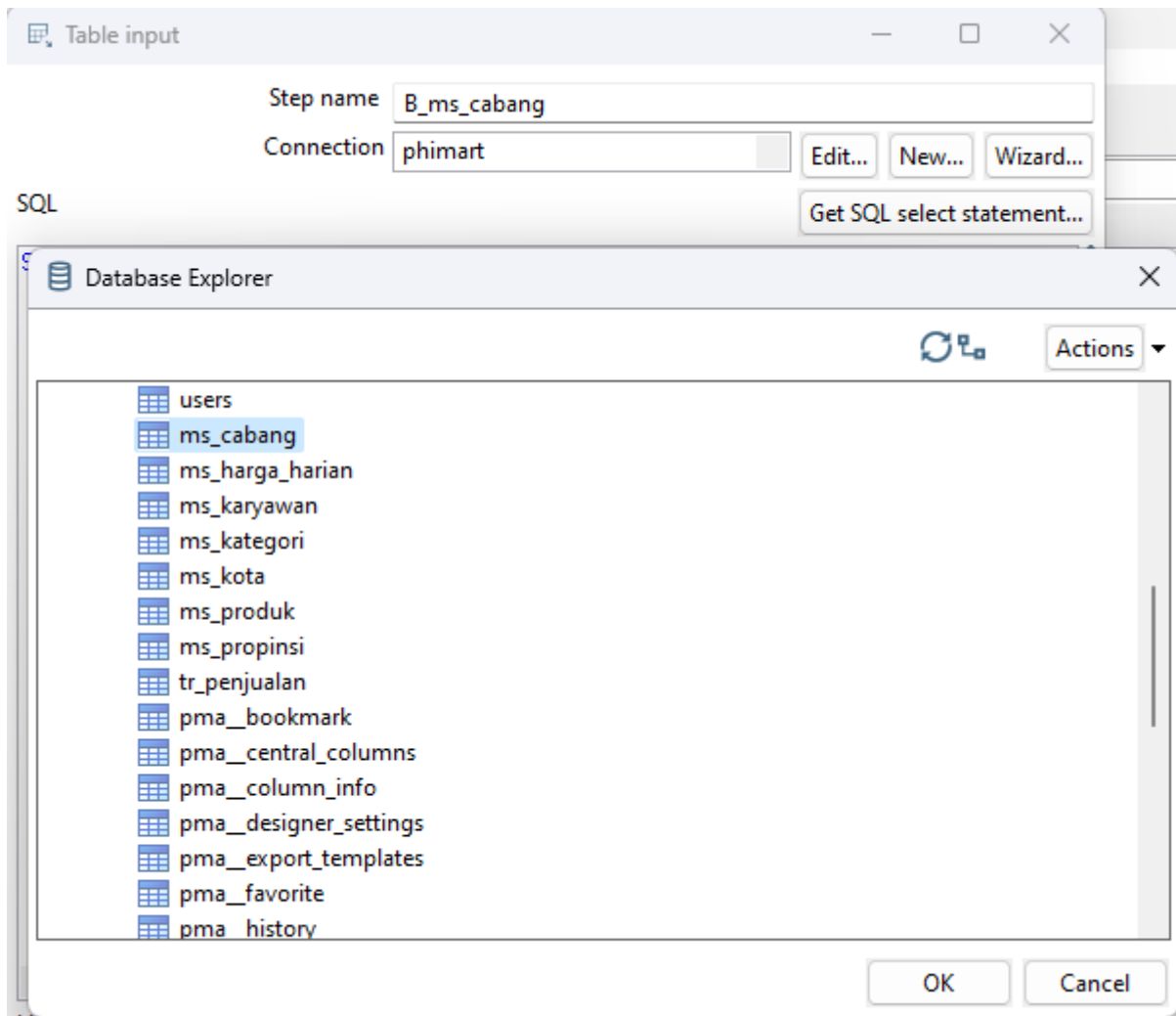


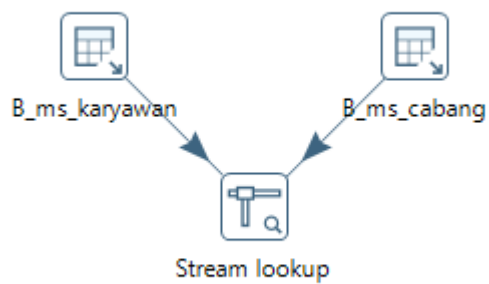
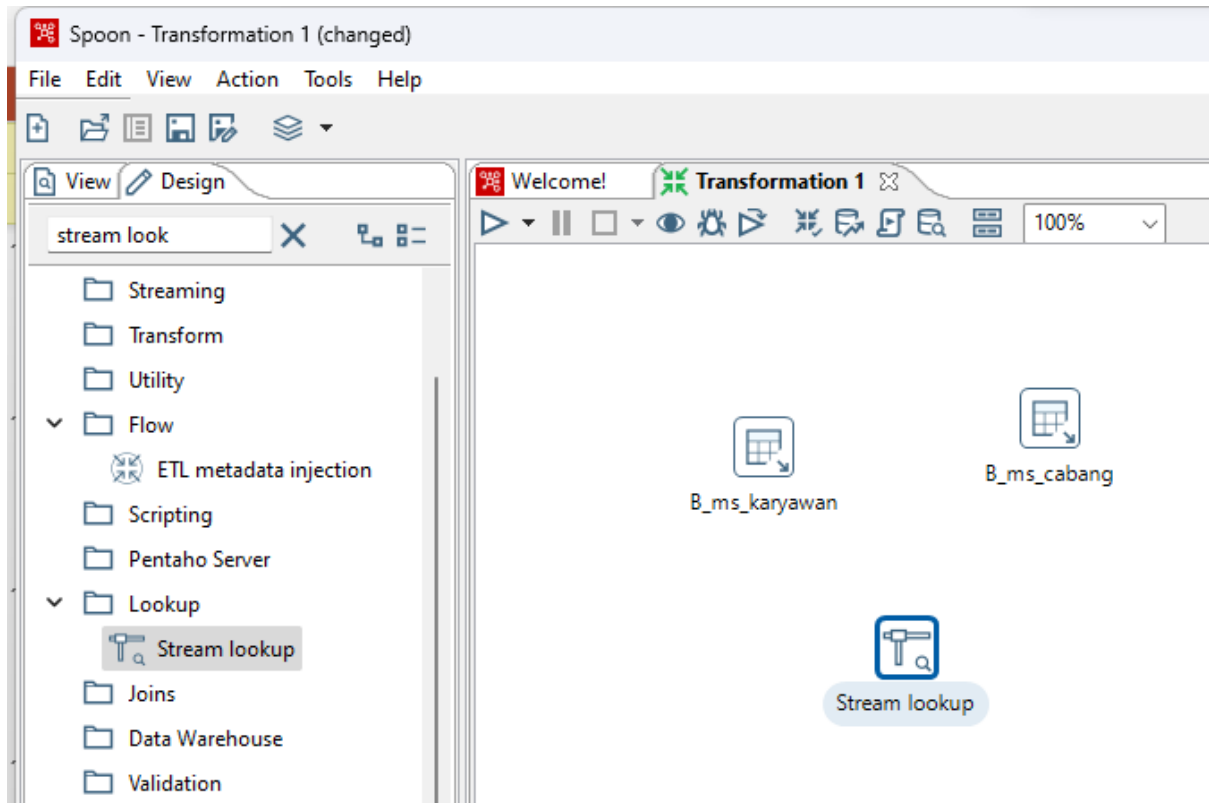
Terakhir, restart pentaho spoon. Dan lakukan koneksi kembali.











Stream lookup

Step name: Cabang_Karyawan

Lookup step: B_ms_cabang

The key(s) to look up the value(s):

#	Field	LookupField
1	kode_...	kode_cabang
2		

Specify the fields to retrieve :

#	Field	New name	Default	Type
3	kode_kota			String

☒ Preserve memory (costs CPU)
 ☐ Key and value are exactly one integer field
 ☐ Use sorted list (i.s.o. hashtable)

? Help OK Cancel Get Fields Get lookup fields Get lookup fields

Hapus kode kota dengan menekan del atau klik kanan pada field kode kota.

Stream lookup

Step name
B_cabang_karyawan

Lookup step
B_ms_cabang

The key(s) to look up the value(s):

#	Field	LookupField
1	kode_cabang	kode_cabang

Specify the fields to retrieve :

#	Field	New name	Default	Type
2	nama_cabang	nama_area_cabang		String
3				

☒ Preserve memory (costs CPU)

 Key and value are exactly one integer field ☐

 Use sorted list (i.s.o. hashtable) ☐

? Help

OK

Cancel

Get Fields

Get lookup fields

an

ols Help

tion

Welcome! TM_cabang-karyawan

100%

B_ms_karyawan B_ms_cabang

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

2024/03/04 07:57:21 - Spoon - Started the transformation execution.
2024/03/04 07:57:21 - TM_cabang-karyawan - Dispatching started for transformation [TM_cabang-karyawan]
2024/03/04 07:57:21 - B_ms_karyawan.0 - Finished reading query, closing connection
2024/03/04 07:57:21 - B_ms_karyawan.0 - Finished processing (I=30, O=0, R=0, W=30, U=0, E=0)
2024/03/04 07:57:21 - B_ms_cabang.0 - Finished reading query, closing connection
2024/03/04 07:57:21 - B_ms_cabang.0 - Finished processing (I=500, O=0, R=0, W=500, U=0, E=0)
2024/03/04 07:57:22 - Cabang_Karyawan.0 - Finished processing (I=0, O=0, R=530, W=30, U=0, E=0)
2024/03/04 07:57:22 - Spoon - The transformation has finished!!

Spoon - TM_cabang-karyawan (changed)

File Edit View Action Tools Help

View Design

conca

Input
Output
Streaming
Transform
Concat fields
Utility
Flow
ETL metadata injection
Scripting
Pentaho Server
Lookup
Joins
Data Warehouse
Validation
Statistics
Big Data
Cryptography
Job

Welcome! TM_cabang-karyawan

75%

B_ms_karyawan B_ms_cabang

Cabang_Karyawan

Concat fields

Concat fields

Step name: Concat fields

Target Field Name:

Length of Target Field: 0

Separator: ;

Enclosure: "

Insert TAB

Fields Advanced

#	Name	Type	Format	Length	Precision
1					

Get Fields Minimal width

Help OK Cancel

Concat fields

Step name:

Target Field Name:

Length of Target Field:

Separator: Insert TAB

Enclosure:

Fields **Advanced**

#	Name	Type	Format	Length	Precision
1	nama_depan	String		8	
2	nama_belakang	String		9	
3					

Get Fields Minimal width

OK Cancel

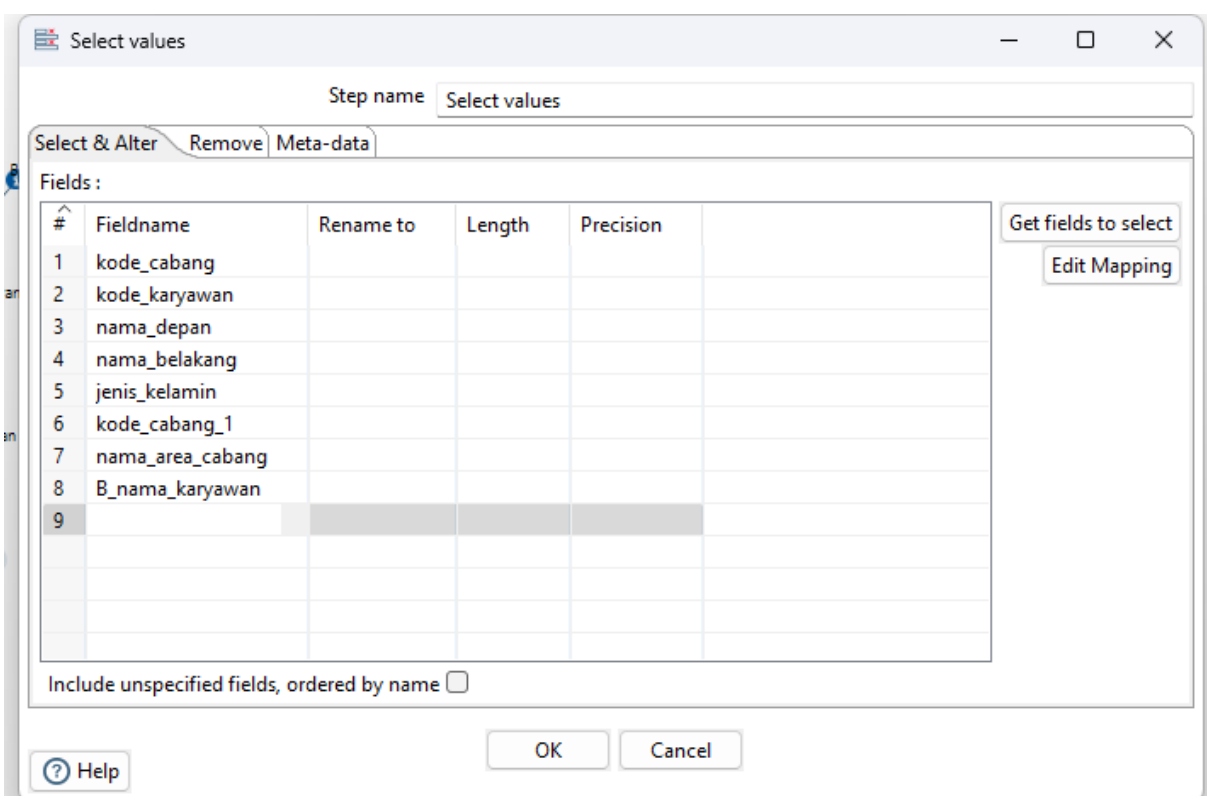
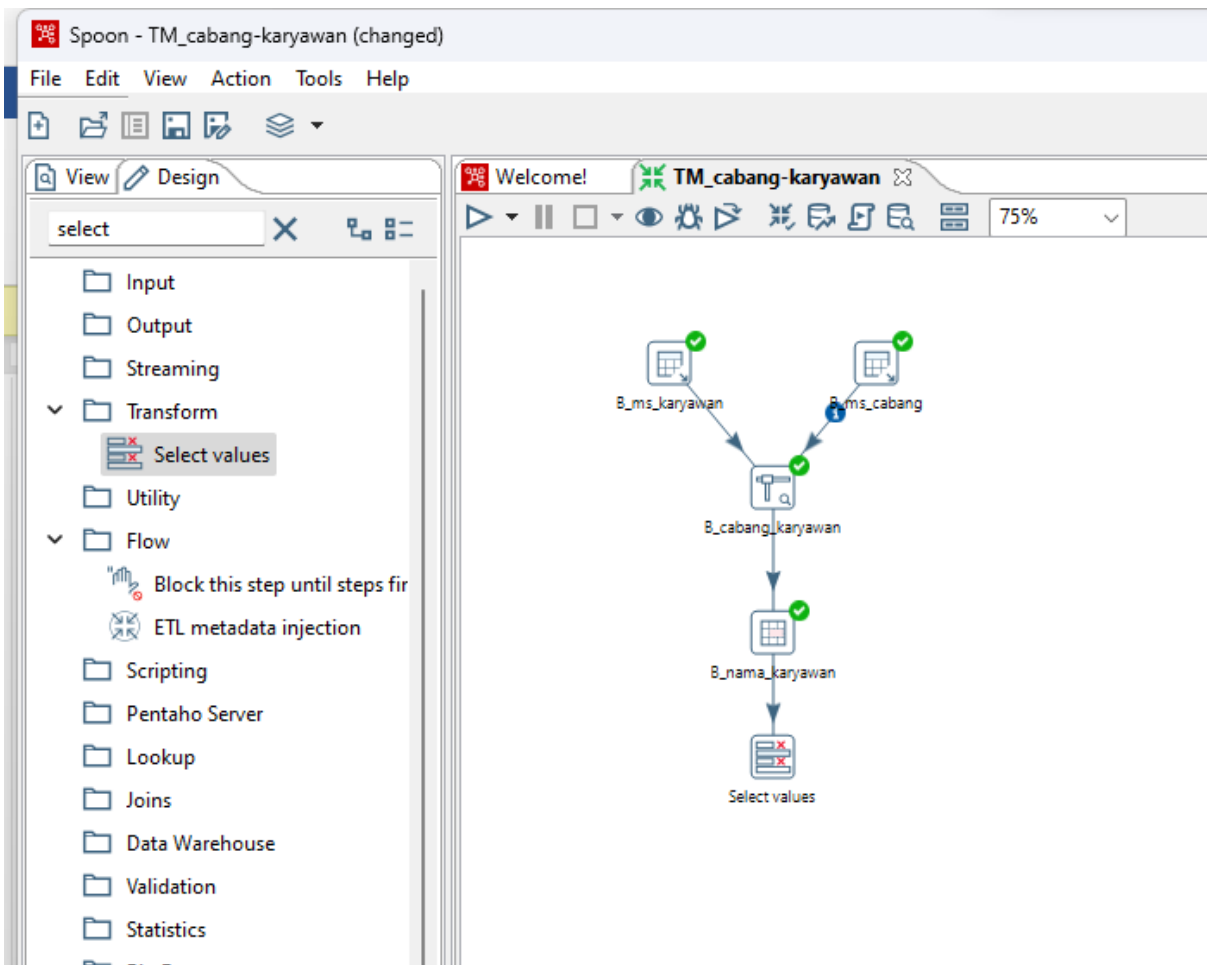
Help OK

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

☒ First rows ☐ Last rows ☐ Off

#	kode_cabang	kode_karyawan	nama_depan	nama_belakang	jenis_kelamin	kode_cabang_1	nama_cabang	B_nama_karyawan
1	CABANG-039	039-147	Bintang	Maven	W	CABANG-039	PHI Mini Market - Makassar 01	Bintang Maven
2	CABANG-047	047-181	Eria	Setiawan	W	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Eria Setiawan
3	CABANG-065	065-282	Galang	Setiawan	P	CABANG-065	PHI Mini Market - Surabaya 01	Galang Setiawan
4	CABANG-039	039-031	Kristina	Damai	W	CABANG-039	PHI Mini Market - Makassar 01	Kristina Damai
5	CABANG-047	047-075	Eko	Rukun	P	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Eko Rukun
6	CABANG-065	065-076	Natali	Menawan	W	CABANG-065	PHI Mini Market - Surabaya 01	Natali Menawan
7	CABANG-039	039-214	Mawar	Mardi	W	CABANG-039	PHI Mini Market - Makassar 01	Mawar Mardi
8	CABANG-047	047-055	Erman	Margo	P	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Erman Margo
9	CABANG-065	065-061	Ayu	Pekerti	W	CABANG-065	PHI Mini Market - Surabaya 01	Ayu Pekerti
10	CABANG-039	039-044	Ferdy	Tenteram	P	CABANG-039	PHI Mini Market - Makassar 01	Ferdy Tenteram
11	CABANG-047	047-133	Harum	Maven	W	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Harum Maven
12	CABANG-065	065-023	Harum	Selangit	W	CABANG-065	PHI Mini Market - Surabaya 01	Harum Selangit
13	CABANG-039	039-212	Agus	Dewangga	P	CABANG-039	PHI Mini Market - Makassar 01	Agus Dewangga
14	CABANG-047	047-031	Kristina	Damai	W	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Kristina Damai
15	CABANG-065	065-060	Mulia	Setiawan	P	CABANG-065	PHI Mini Market - Surabaya 01	Mulia Setiawan
16	CABANG-039	039-053	Galang	Terang	P	CABANG-039	PHI Mini Market - Makassar 01	Galang Terang
17	CABANG-047	047-244	Budiwati	Ramah	W	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Budiwati Ramah
18	CABANG-065	065-007	Budi	Tenteram	P	CABANG-065	PHI Mini Market - Surabaya 01	Budi Tenteram
19	CABANG-039	039-127	Lastri	Mardi	W	CABANG-039	PHI Mini Market - Makassar 01	Lastri Mardi
20	CABANG-047	047-286	Kusuma	Dominik	P	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Kusuma Dominik
21	CABANG-065	065-258	Mulyo	Damai	P	CABANG-065	PHI Mini Market - Surabaya 01	Mulyo Damai
22	CABANG-039	039-203	Eriq	Menawan	P	CABANG-039	PHI Mini Market - Makassar 01	Eriq Menawan
23	CABANG-047	047-006	Agung	Alexander	P	CABANG-047	PHI Mini Market - Jakarta Pusat 01	Agung Alexander
24	CABANG-065	065-094	Mariani	Damai	W	CABANG-065	PHI Mini Market - Surabaya 01	Mariani Damai



Select values

Step name: Select values

Select & Alter Remove Meta-data

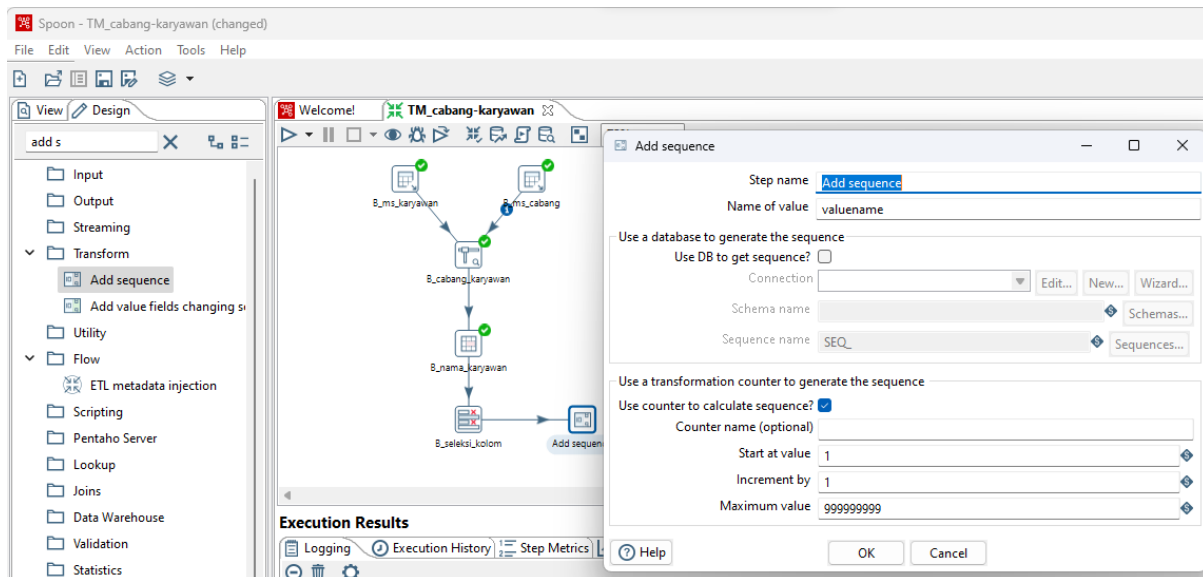
Fields:

#	Fieldname	Rename to	Length	Precision
1	kode_cabang			
2	kode_karyawan			
3	nama_area_cabang			
4	B_nama_karyawan			
5				

Get fields to select
Edit Mapping

Include unspecified fields, ordered by name ☐

Help OK Cancel



Add sequence

Step name:

Name of value:

Use a database to generate the sequence

Use DB to get sequence? ☐

Connection: Edit... New... Wizard...

Schema name: Schemas...

Sequence name: Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☒

Counter name (optional):

Start at value:

Increment by:

Maximum value:

Help OK Cancel

Spoon - TM_cabang-karyawan (changed)

File Edit View Action Tools Help

View Design

sele

Input

Output

Streaming

Transform

Utility

Flow

Block this step until steps fir

ETL metadata injection

Scripting

Pentaho Server

Lookup

Joins

Data Warehouse

Validation

Statistics

Big Data

TM_cabang-karyawan

75%

Connect

Execution Results

Logging Execution History Step Metrics Performance Graph

2024/03/04 08:20:44 - B_ms_cabang.0 - Finished processing (I=500, O=0, R=0, W=)

2024/03/04 08:20:44 - B_ms_karyawan.0 - Finished readinga querv. closing connection

Select values

Step name: Select values

Select & Alter Remove Meta-data

Fields:

#	Fieldname	Rename to	Length	Precision
1	B_sk_karywaan			

Get fields to select

Edit Mapping

Include unspecified fields, ordered by ☐

Help OK Cancel

Examine preview data					
Rows of step: Select values (30 rows)					
#	B_sk_karyawan	kode_cabang	nama_area_cabang	kode_karyawan	B_nama_karyawan
1	1	CABANG-039	PHI Mini Market - Makassar 01	039-147	Bintang Maven
2	2	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-181	Eria Setiawan
3	3	CABANG-065	PHI Mini Market - Surabaya 01	065-282	Galang Setiawan
4	4	CABANG-039	PHI Mini Market - Makassar 01	039-031	Kristina Damai
5	5	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-075	Eko Rukun
6	6	CABANG-065	PHI Mini Market - Surabaya 01	065-076	Natali Menawan
7	7	CABANG-039	PHI Mini Market - Makassar 01	039-214	Mawar Mardi
8	8	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-055	Erman Margo
9	9	CABANG-065	PHI Mini Market - Surabaya 01	065-061	Ayu Pekerti
10	10	CABANG-039	PHI Mini Market - Makassar 01	039-044	Ferdy Tenteram
11	11	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-133	Harum Maven
12	12	CABANG-065	PHI Mini Market - Surabaya 01	065-023	Harum Selangit
13	13	CABANG-039	PHI Mini Market - Makassar 01	039-212	Agus Dewangga
14	14	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-031	Kristina Damai
15	15	CABANG-065	PHI Mini Market - Surabaya 01	065-060	Mulia Setiawan
16	16	CABANG-039	PHI Mini Market - Makassar 01	039-053	Galang Terang
17	17	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-244	Budiwati Ramah
18	18	CABANG-065	PHI Mini Market - Surabaya 01	065-007	Budi Tenteram
19	19	CABANG-039	PHI Mini Market - Makassar 01	039-127	Lastri Mardi
20	20	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-286	Kusuma Dominik
21	21	CABANG-065	PHI Mini Market - Surabaya 01	065-258	Mulyo Damai
22	22	CABANG-039	PHI Mini Market - Makassar 01	039-203	Eriq Menawan
23	23	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-006	Agung Alexander
24	24	CABANG-065	PHI Mini Market - Surabaya 01	065-094	Mariani Damai
25	25	CABANG-039	PHI Mini Market - Makassar 01	039-156	Niken Setiawan
26	26	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-105	Sentosa Indrawan
27	27	CABANG-065	PHI Mini Market - Surabaya 01	065-206	Aris Siberut
28	28	CABANG-039	PHI Mini Market - Makassar 01	039-084	Eriq Jagat
29	29	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-128	Cahya Terang
30	30	CABANG-065	PHI Mini Market - Surabaya 01	065-078	Aron Zaminski

The screenshot displays the Talend Studio interface for configuring an ETL job. The top window, titled "Spoon - TM_cabang-karyawan (changed)", shows a job design with several input and output components. The "Table output" component is highlighted, and its configuration dialog is open.

The "Table output" dialog shows the following settings:

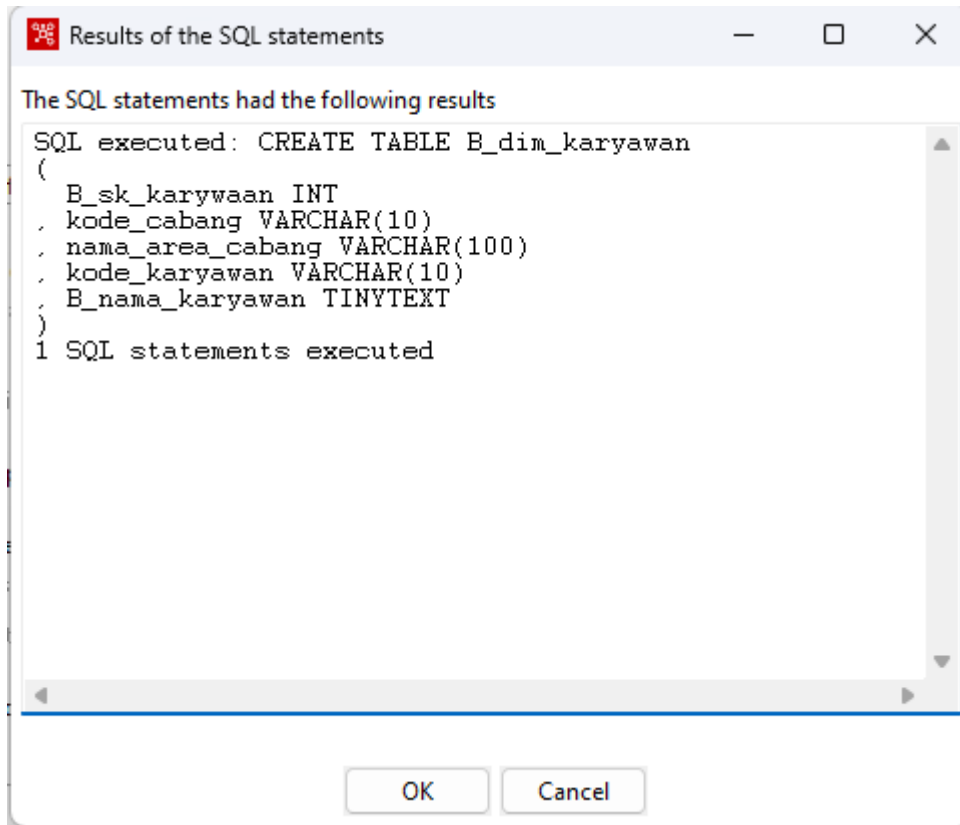
- Step name: B_dim_karyawan
- Connection: etl
- Target schema: (empty)
- Target table: B_dim_karyawan
- Commit size: 1000
- Truncate table: ☐
- Ignore insert errors: ☐
- Specify databases: (empty)
- Database fields: (empty)
- Partition data on: (empty)
- Partition data by: (empty)
- Partition data by: (empty)
- Partition data by: (empty)
- Use batch update for inserts: ☒
- Is the name of the table defined in a field?: ☐
- Field that contains name of table: (empty)
- Store the tablename field: ☒
- Return auto-generated key: ☐
- Name of auto-generated key field: (empty)

A "Simple SQL editor" dialog is also open, showing the SQL statement:

```
CREATE TABLE B_dim_karyawan
```

The dialog includes buttons for "Execute", "Clear cache", and "Close".

At the bottom of the screen, a status bar message reads: "27:31 - TM_cabang-karyawan - Transformation is killing the other steps!"



localhost / 127.0.0.1 / etl / b_dim_karyawan | phpMyAdmin 5.2.0

localhost/phpmyadmin/index.php?route=/sql&db=etl&table=b_dim_karyawan&pos=0

Server: 127.0.0.1 Database: etl Tabel: b_dim_karyawan

Jelajahi Struktur SQL Cari Tambahkan Ekspor Impor Hak Akses

B_sk_karyawan	kode_cabang	nama_area_cabang	kode_karyawan	B_nama_karyawan
1	CABANG-039	PHI Mini Market - Makassar 01	039-147	Bintang Maven
2	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-181	Eria Setiawan
3	CABANG-065	PHI Mini Market - Surabaya 01	065-282	Galang Setiawan
4	CABANG-039	PHI Mini Market - Makassar 01	039-031	Kristina Damai
5	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-075	Eko Rukun
6	CABANG-065	PHI Mini Market - Surabaya 01	065-076	Natali Menawan
7	CABANG-039	PHI Mini Market - Makassar 01	039-214	Mawar Mardi
8	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-055	Erman Margo
9	CABANG-065	PHI Mini Market - Surabaya 01	065-061	Ayu Pekerti
10	CABANG-039	PHI Mini Market - Makassar 01	039-044	Ferdy Tenteram
11	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-133	Harum Maven
12	CABANG-065	PHI Mini Market - Surabaya 01	065-023	Harum Selangit
13	CABANG-039	PHI Mini Market - Makassar 01	039-212	Agus Dewangga
14	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-031	Kristina Damai
15	CABANG-065	PHI Mini Market - Surabaya 01	065-060	Mulia Setiawan
16	CABANG-039	PHI Mini Market - Makassar 01	039-053	Galang Terang
17	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-244	Budiwati Ramah
18	CABANG-065	PHI Mini Market - Surabaya 01	065-007	Budi Tenteram
19	CABANG-039	PHI Mini Market - Makassar 01	039-127	Lastri Mardi
20	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-286	Kusuma Dominik
21	CABANG-065	PHI Mini Market - Surabaya 01	065-258	Mulyo Damai
22	CABANG-039	PHI Mini Market - Makassar 01	039-203	Eriq Menawan
23	CABANG-047	PHI Mini Market - Jakarta Pusat 01	047-006	Agung Alexander

Konsol