

LAPORAN PRAKTIKUM
DATA WAREHOUSING DAN DATA MINING
MODUL 3
TABEL DIMENSI



Disusun oleh:

Bima Triadmaja

L200210137

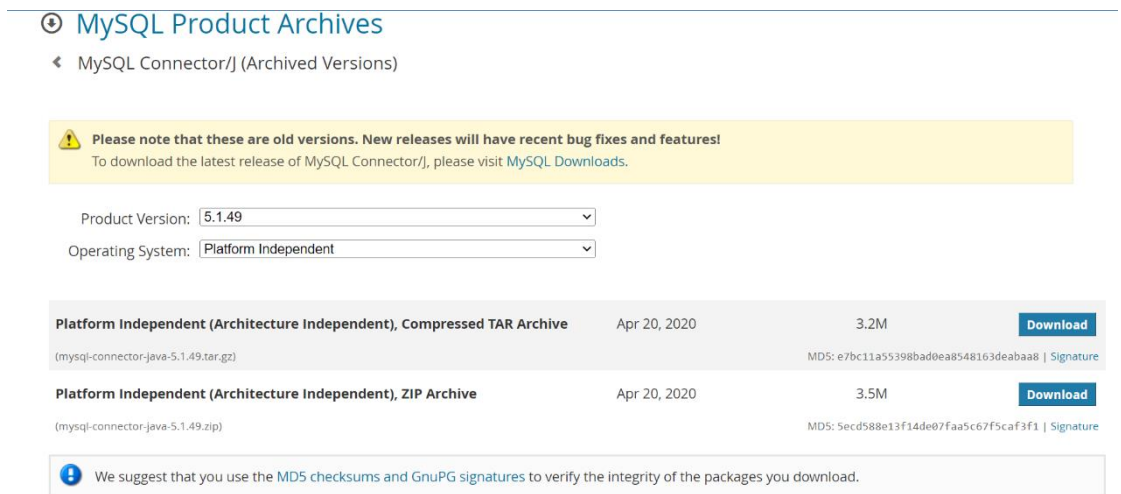
PROGRAM STUDI INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA

TAHUN 2023/2024

3.4 Langkah – Langkah Praktikum

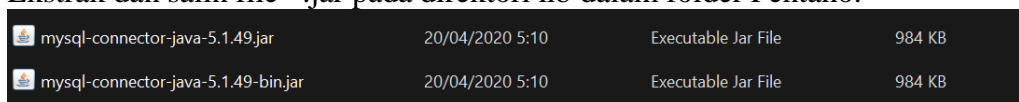
3.4.1 Menghubungkan MySQL dengan Pentaho

1. Mengunduh MySQL Connector.



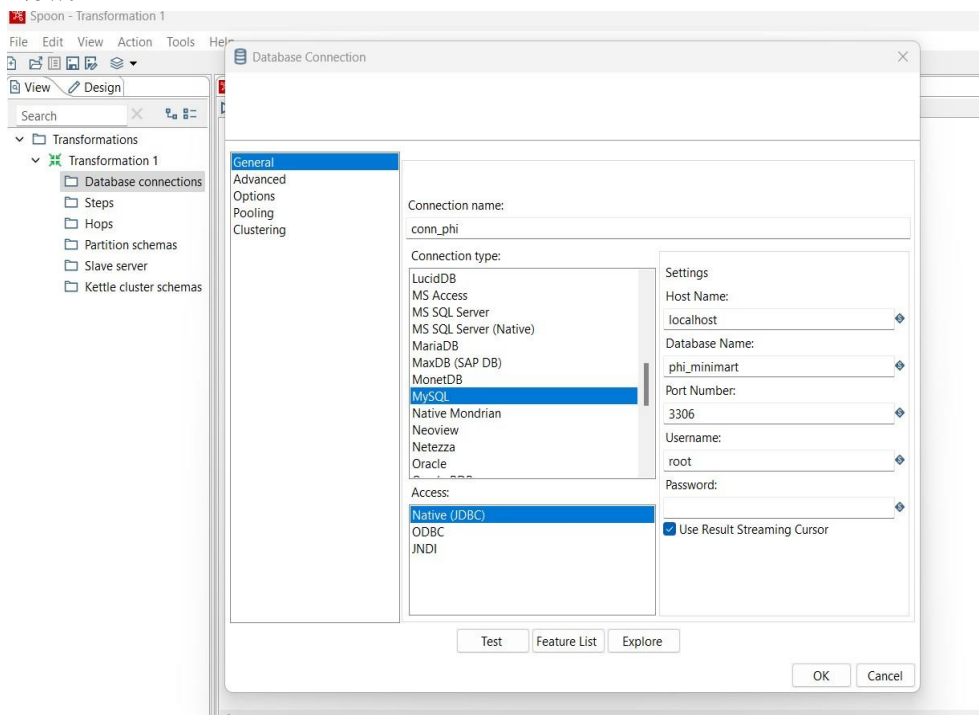
Gambar 3.1 Download MySQL Connector

2. Ekstrak dan salin file *.jar pada direktori lib dalam folder Pentaho.



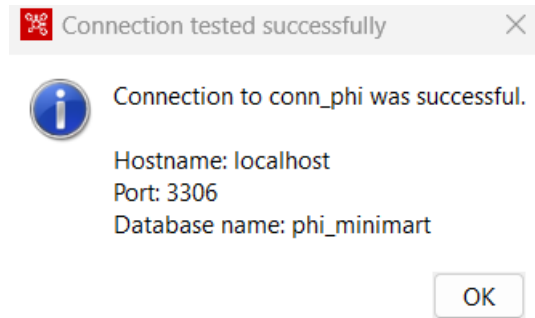
Gambar 3.2 Ekstrak MySQL Connection

3. Membuat transformasi baru . Pada **view**, klik kanan **Database connection >> New.**



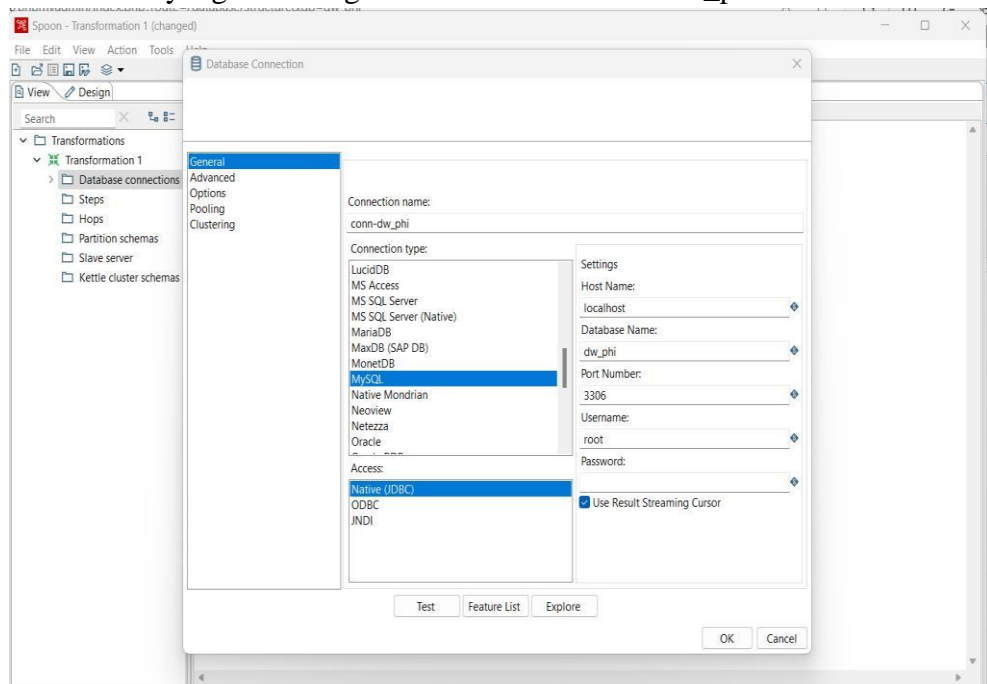
Gambar 3.3 Koneksi conn_phi

4. Jika tidak ada kesalahan, akan tampil pesan seperti ini :

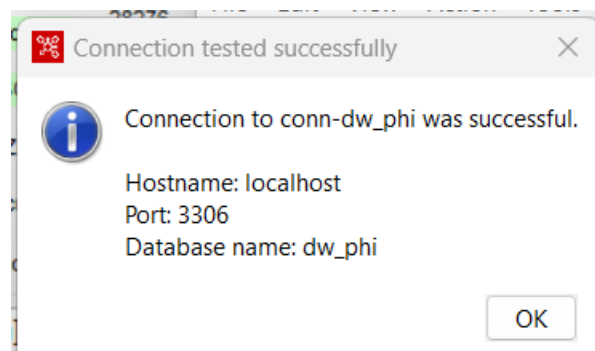


Gambar 3.4 Koneksi conn_phi Berhasil

5. *Connection* yang kedua digunakan untuk *database dw_phi*.



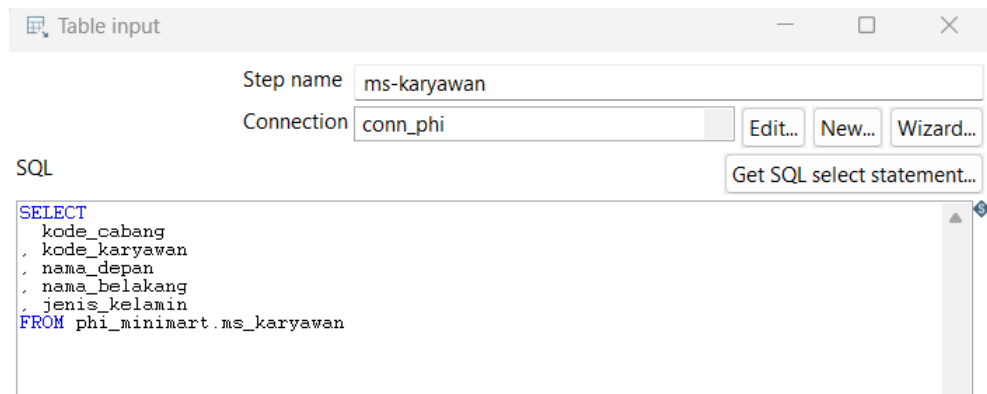
Gambar 3.5 Koneksi conn-dw_phi



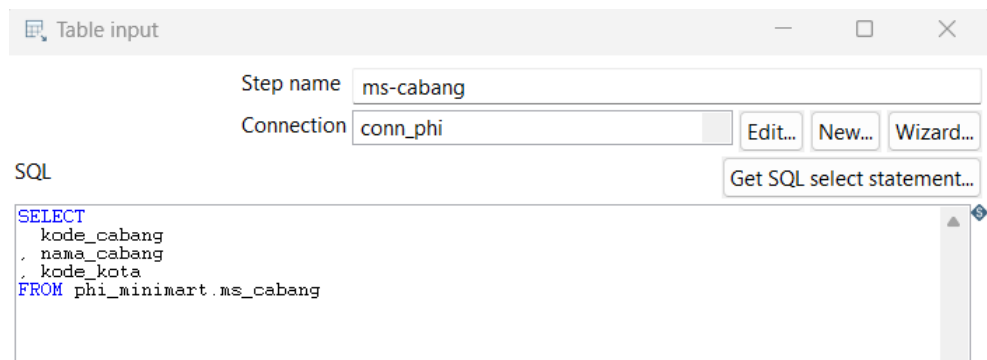
Gambar 3.6 Koneksi conn-dw_phi berhasil

3.4.2 Tabel Dimensi Karyawan

1. Pada Design pilih step Table Input sebanyak 2 kali, kemudian Edit menjadi ms-karyawan dan ms-cabang.

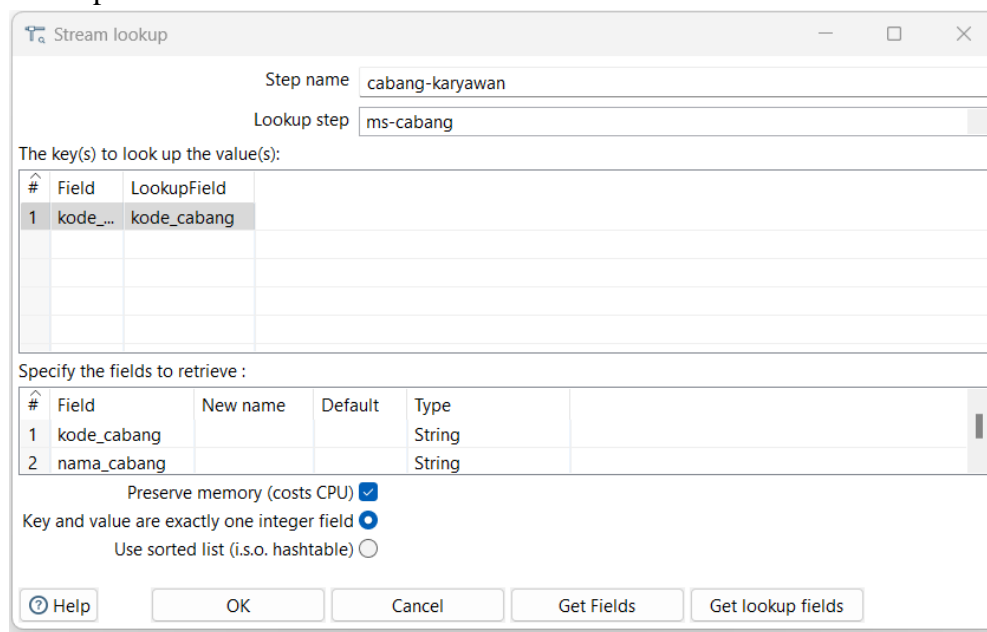


Gambar 3.7 Membuat Tabel ms-karyawan



Gambar 3.8 Membuat Tabel ms-cabang

2. Gabungkan tabel karyawan dan tabel cabang menggunakan step Stream Lookup.



Gambar 3.9 Cabang-karyawan

3. Pada Specify the fields to retrieve, nama_cabang dapat diubah menjadi nama_area_cabang, sedangkan kode_kota dihapuskan saja.

Stream lookup

Step name: cabang-karyawan

Lookup step: 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 |
|---|-------------|------------------|---------|--------|
| 1 | kode_cabang | | | String |
| 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

Gambar 3.10 Mengganti dan menghapus kolom

4. Periksa hasilnya dengan klik kanan Preview >> Quick Launch.

Examine preview data

Rows of step: cabang-karyawan (30 rows)

| # | kode_cabang | kode_karyawan | nama_depan | nama_belakang | jenis_kelamin | kode_cabang_1 | nama_area_cabang |
|-----|-------------|---------------|------------|---------------|---------------|---------------|------------------------------------|
| 1 | CABANG-039 | 039-147 | Bintang | Maven | W | CABANG-039 | PHI Mini Market - Makassar 01 |
| 2 | CABANG-047 | 047-181 | Eria | Setiawan | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 3 | CABANG-065 | 065-282 | Galang | Setiawan | P | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 4 | CABANG-039 | 039-031 | Kristina | Damai | W | CABANG-039 | PHI Mini Market - Makassar 01 |
| 5 | CABANG-047 | 047-075 | Eko | Rukun | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 6 | CABANG-065 | 065-076 | Natali | Menawan | W | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 7 | CABANG-039 | 039-214 | Mawar | Mardi | W | CABANG-039 | PHI Mini Market - Makassar 01 |
| 8 | CABANG-047 | 047-055 | Erman | Margo | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 9 | CABANG-065 | 065-061 | Ayu | Pekerti | W | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 1. | CABANG-039 | 039-044 | Ferdy | Tenteram | P | CABANG-039 | PHI Mini Market - Makassar 01 |
| 1.. | CABANG-047 | 047-133 | Harum | Maven | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 1.. | CABANG-065 | 065-023 | Harum | Selangit | W | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 1.. | CABANG-039 | 039-212 | Agus | Dewangga | P | CABANG-039 | PHI Mini Market - Makassar 01 |
| 1.. | CABANG-047 | 047-031 | Kristina | Damai | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 1.. | CABANG-065 | 065-060 | Mulia | Setiawan | P | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 1.. | CABANG-039 | 039-053 | Galang | Terang | P | CABANG-039 | PHI Mini Market - Makassar 01 |
| 1.. | CABANG-047 | 047-244 | Budiwati | Ramah | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 1.. | CABANG-065 | 065-007 | Budi | Tenteram | P | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 1.. | CABANG-039 | 039-127 | Lastri | Mardi | W | CABANG-039 | PHI Mini Market - Makassar 01 |
| 2.. | CABANG-047 | 047-286 | Kusuma | Dominik | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 2.. | CABANG-065 | 065-258 | Mulyo | Damai | P | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 2.. | CABANG-039 | 039-203 | Eriq | Menawan | P | CABANG-039 | PHI Mini Market - Makassar 01 |
| 2.. | CABANG-047 | 047-006 | Agung | Alexander | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 |
| 2.. | CABANG-065 | 065-094 | Mariani | Damai | W | CABANG-065 | PHI Mini Market - Surabaya 01 |
| 2.. | CABANG-039 | 039-156 | Niken | Setiawan | W | CABANG-039 | PHI Mini Market - Makassar 01 |

Close

Gambar 3.11 Preview

5. Menggabungkan kolom nama_depan dan nama_belakang menggunakan step Concat fields.

Concat fields

Step name: nama_karyawan

Target Field Name: nama_karyawan

Length of Target Field: 0

Separator: Insert TAB

Enclosure: "

Fields Advanced

| # | Name | Type | Format | Length | Precision | Currency | Decimal | Group | Trim Type |
|---|---------------|------|--------|--------|-----------|----------|---------|-------|-----------|
| 1 | nama_depan | None | | | | | | | none |
| 2 | nama_belakang | None | | | | | | | none |

Get Fields Minimal width

Help OK Cancel

Gambar 3.12 Nama_karyawan

Examine preview data

Rows of step: nama_karyawan (30 rows)

| # | kode_cabang | kode_karyawan | nama_depan | nama_belakang | jenis_kelamin | kode_cabang_1 | nama_area_cabang | 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 | |
| 1. | CABANG-039 | 039-044 | Ferdy | Tenteram | P | CABANG-039 | PHI Mini Market - Makassar 01 | Ferdy Tenteram | |
| 1. | CABANG-047 | 047-133 | Harum | Maven | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | Harum Maven | |
| 1. | CABANG-065 | 065-023 | Harum | Selangit | W | CABANG-065 | PHI Mini Market - Surabaya 01 | Harum Selangit | |
| 1. | CABANG-039 | 039-212 | Agus | Dewangga | P | CABANG-039 | PHI Mini Market - Makassar 01 | Agus Dewangga | |
| 1. | CABANG-047 | 047-031 | Kristina | Damai | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | Kristina Damai | |
| 1. | CABANG-065 | 065-060 | Mulia | Setiawan | P | CABANG-065 | PHI Mini Market - Surabaya 01 | Mulia Setiawan | |
| 1. | CABANG-039 | 039-053 | Galang | Terang | P | CABANG-039 | PHI Mini Market - Makassar 01 | Galang Terang | |
| 1. | CABANG-047 | 047-244 | Budiwati | Ramah | W | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | Budiwati Ramah | |
| 1. | CABANG-065 | 065-007 | Budi | Tenteram | P | CABANG-065 | PHI Mini Market - Surabaya 01 | Budi Tenteram | |
| 1. | CABANG-039 | 039-127 | Lastri | Mardi | W | CABANG-039 | PHI Mini Market - Makassar 01 | Lastri Mardi | |
| 2. | CABANG-047 | 047-286 | Kusuma | Dominik | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | Kusuma Dominik | |
| 2. | CABANG-065 | 065-258 | Mulyo | Damai | P | CABANG-065 | PHI Mini Market - Surabaya 01 | Mulyo Damai | |
| 2. | CABANG-039 | 039-203 | Eriq | Menawan | P | CABANG-039 | PHI Mini Market - Makassar 01 | Eriq Menawan | |
| 2. | CABANG-047 | 047-006 | Agung | Alexander | P | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | Agung Alexander | |
| 2. | CABANG-065 | 065-094 | Mariani | Damai | W | CABANG-065 | PHI Mini Market - Surabaya 01 | Mariani Damai | |
| 2. | CABANG-039 | 039-156 | Niken | Setiawan | W | CABANG-039 | PHI Mini Market - Makassar 01 | Niken Setiawan | |

Close

Gambar 3.13 Preview nama_karyawan

6. Menyortir kolom sehingga tersisa kode_cabang, nama_area_cabang, kode_karyawan, dan nama_karyawan menggunakan step Select values.

Select values

Step name: seleksi kolom

Select & Alter Remove Meta-data

Fields:

| # | Fieldname | Rename to | Length | Precision |
|---|------------------|-----------|--------|-----------|
| 1 | kode_cabang | | | |
| 2 | kode_karyawan | | | |
| 3 | nama_depan | | | |
| 4 | nama_belakang | | | |
| 5 | jenis_kelamin | | | |
| 6 | kode_cabang_1 | | | |
| 7 | nama_area_cabang | | | |
| 8 | nama_karyawan | | | |

Get fields to select Edit Mapping

Include unspecified fields, ordered ☐

Help OK Cancel

Gambar 3.14 Sebelum seleksi kolom

7. Mengatur sesuai urutan yang kita inginkan.

Select values

Step name: seleksi kolom

Select & Alter Remove Meta-data

Fields:

| # | Fieldname | Rename to | Length | Precision |
|---|------------------|-----------|--------|-----------|
| 1 | kode_cabang | | | |
| 2 | nama_area_cabang | | | |
| 3 | kode_karyawan | | | |
| 4 | nama_karyawan | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

Get fields to select Edit Mapping

Include unspecified fields, ordered ☐

Help OK Cancel

Gambar 3.15 Seleksi kolom

8. Periksa hasilnya dengan klik kanan Preview >> Quick Launch.

Examine preview data

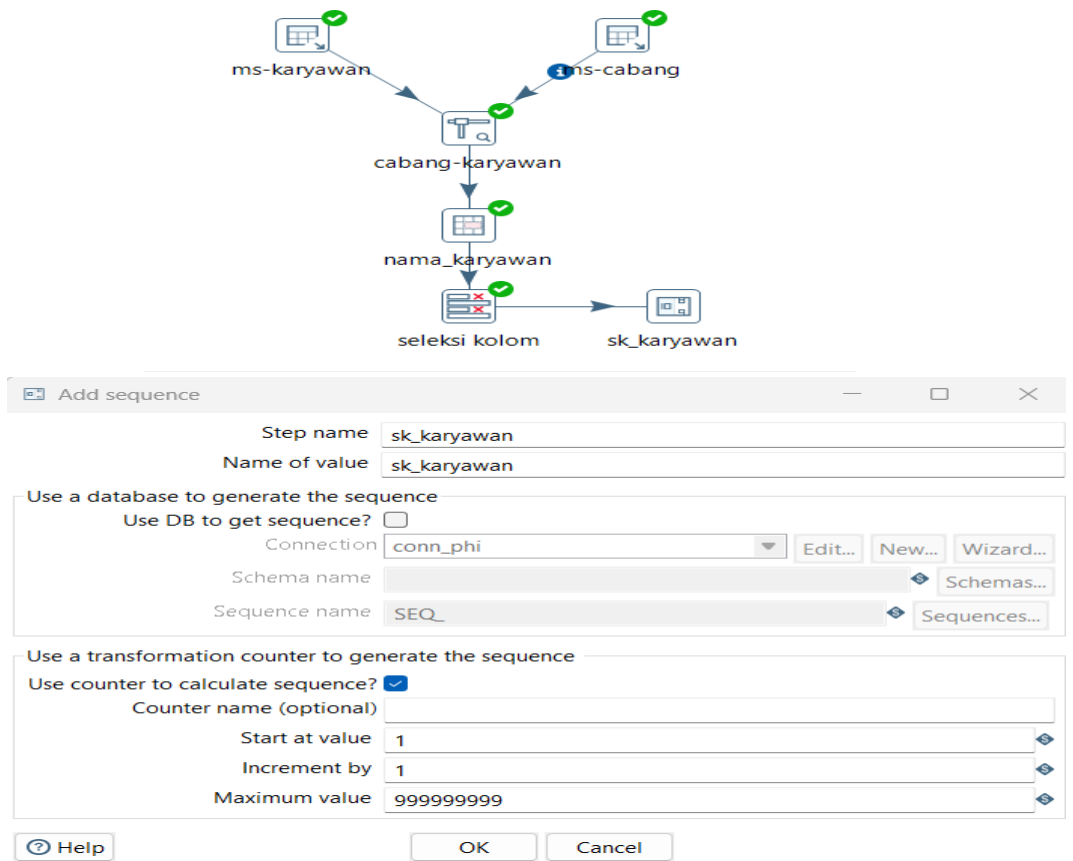
Rows of step: seleksi kolom (30 rows)

| # | kode_cabang | nama_area_cabang | kode_karyawan | 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 | |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-044 | Ferdy Tenteram | |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-133 | Harum Maven | |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-023 | Harum Selangit | |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-212 | Agus Dewangga | |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-031 | Kristina Damai | |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-060 | Mulia Setiawan | |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-053 | Galang Terang | |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-244 | Budiwati Ramah | |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-007 | Budi Tenteram | |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-127 | Lastri Mardi | |
| 2.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-286 | Kusuma Dominik | |
| 2.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-258 | Mulyo Damai | |
| 2.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-203 | Eriq Menawan | |
| 2.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-006 | Agung Alexander | |
| 2.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-094 | Mariani Damai | |
| 2.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-156 | Niken Setiawan | |

Close

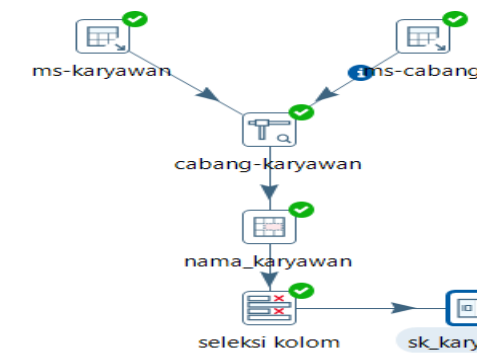
Gambar 3.16 Preview seleksi kolom

9. Membuat kolom sk_karyawan dengan menggunakan step Add sequence.



Gambar 3.17 Kolom sk_karyawan

10. Periksa hasilnya dengan klik kanan Preview >> Quick Launch.



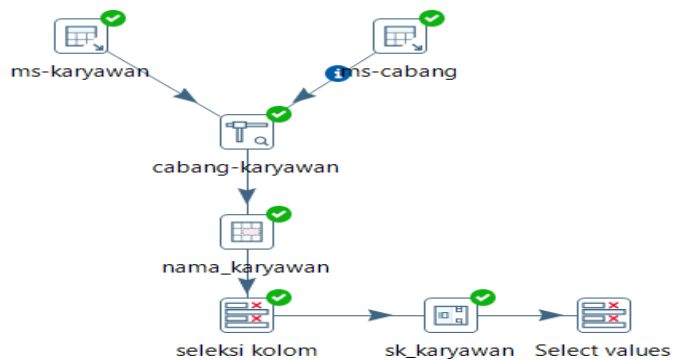
Examine preview data

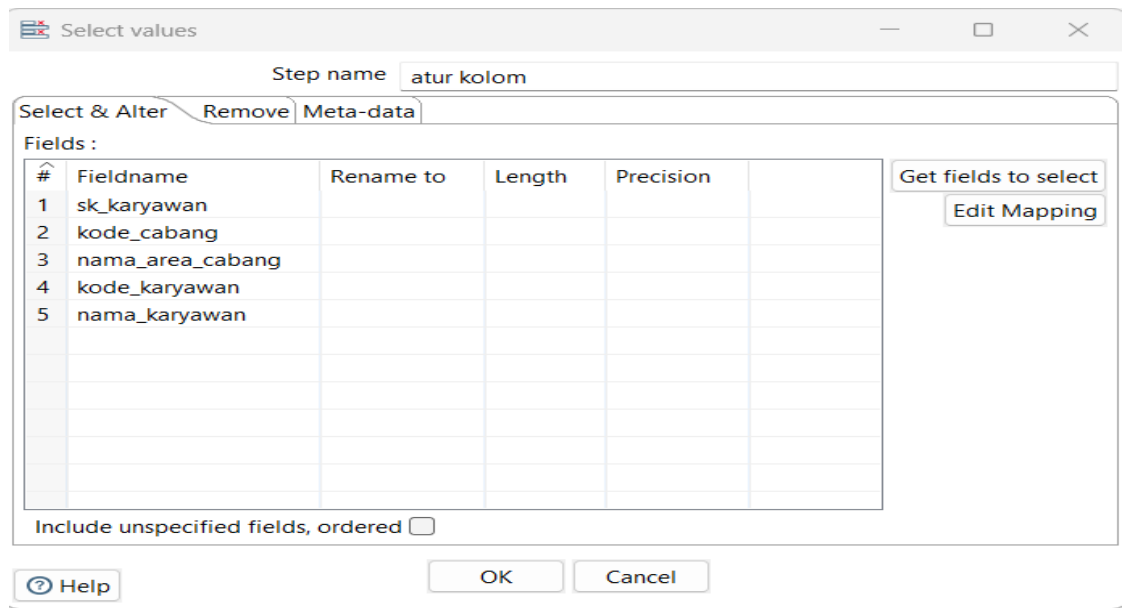
Rows of step: sk_karyawan (30 rows)

| # | kode_cabang | nama_area_cabang | kode_karyawan | nama_karyawan | sk_karyawan |
|-----|-------------|------------------------------------|---------------|-----------------|-------------|
| 1 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-147 | Bintang Maven | 1 |
| 2 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-181 | Eria Setiawan | 2 |
| 3 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-282 | Galang Setiawan | 3 |
| 4 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-031 | Kristina Damai | 4 |
| 5 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-075 | Eko Rukun | 5 |
| 6 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-076 | Natali Menawan | 6 |
| 7 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-214 | Mawar Mardi | 7 |
| 8 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-055 | Erman Margo | 8 |
| 9 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-061 | Ayu Pekerti | 9 |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-044 | Ferdy Tenteram | 10 |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-133 | Harum Maven | 11 |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-023 | Harum Selangit | 12 |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-212 | Agus Dewangga | 13 |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-031 | Kristina Damai | 14 |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-060 | Mulia Setiawan | 15 |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-053 | Galang Terang | 16 |
| 1.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-244 | Budiwati Ramah | 17 |
| 1.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-007 | Budi Tenteram | 18 |
| 1.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-127 | Lastri Mardi | 19 |
| 2.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-286 | Kusuma Dominik | 20 |
| 2.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-258 | Mulyo Damai | 21 |
| 2.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-203 | Eriq Menawan | 22 |
| 2.. | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-006 | Agung Alexander | 23 |
| 2.. | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-094 | Mariani Damai | 24 |
| 2.. | CABANG-039 | PHI Mini Market - Makassar 01 | 039-156 | Niken Setiawan | 25 |

Gambar 3.18 Preview

11. Agar kolom sk_karyawan bisa berada di urutan pertama, kita menggunakan step Select Values.





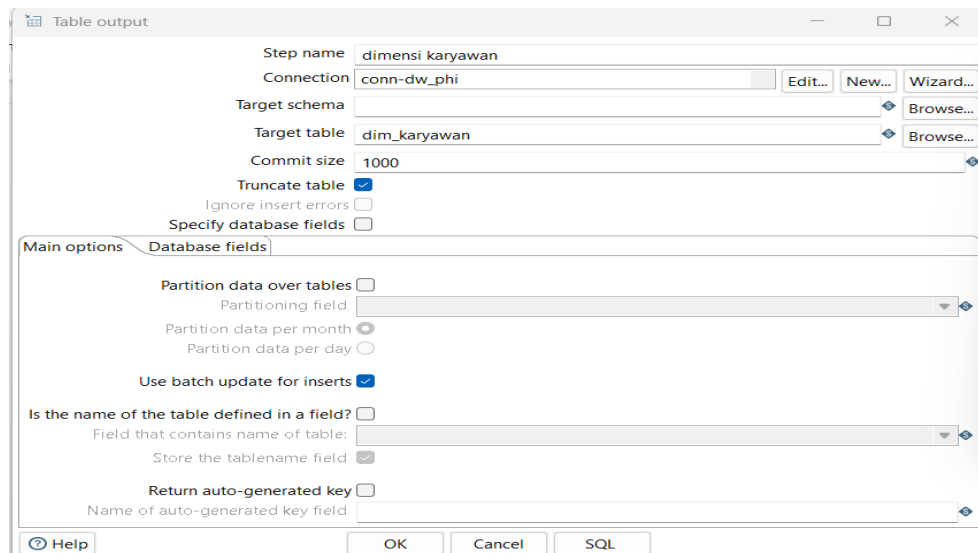
Gambar 3.19 Menyeleksi kolom yang ditampilkan

12. Periksa hasilnya dengan klik kanan Preview >> Quick Launch.

| Examine preview data | | | | | | |
|------------------------------------|-------------|-------------|------------------------------------|---------------|-----------------|--|
| Rows of step: atur kolom (30 rows) | | | | | | |
| # | sk_karyawan | kode_cabang | nama_area_cabang | kode_karyawan | 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 | |
| 1.. | 10 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-044 | Ferdy Tenteram | |
| 1.. | 11 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-133 | Harum Maven | |
| 1.. | 12 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-023 | Harum Selangit | |
| 1.. | 13 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-212 | Agus Dewangga | |
| 1.. | 14 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-031 | Kristina Damai | |
| 1.. | 15 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-060 | Mulia Setiawan | |
| 1.. | 16 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-053 | Galang Terang | |
| 1.. | 17 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-244 | Budiwati Ramah | |
| 1.. | 18 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-007 | Budi Tenteram | |
| 1.. | 19 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-127 | Lastri Mardi | |
| 2.. | 20 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-286 | Kusuma Dominik | |
| 2.. | 21 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-258 | Mulyo Damai | |
| 2.. | 22 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-203 | Eriq Menawan | |
| 2.. | 23 | CABANG-047 | PHI Mini Market - Jakarta Pusat 01 | 047-006 | Agung Alexander | |
| 2.. | 24 | CABANG-065 | PHI Mini Market - Surabaya 01 | 065-094 | Mariani Damai | |
| 2.. | 25 | CABANG-039 | PHI Mini Market - Makassar 01 | 039-156 | Niken Setiawan | |

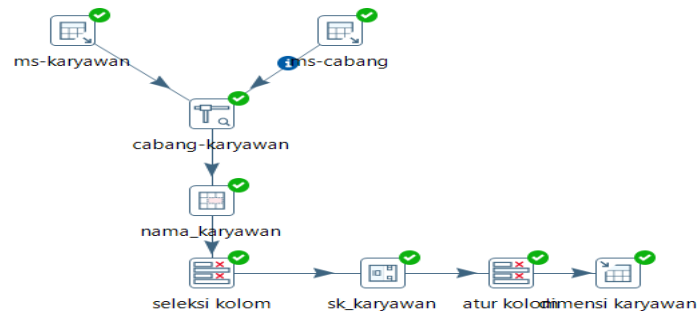
Gambar 3.20 Preview

13. Langkah berikutnya kita simpan dalam *database* dw_phi dengan nama tabel dim_karyawan, menggunakan step Table output.



Gambar 3.21 Membuat Tabel dim_karyawan

14. Tekan tombol SQL dan Execute.



Gambar 3.22 Dimensi karyawan

15. Jangan lupa simpan file dan tekan tombol Run untuk mengeksekusi.

16. Tabel dim_karyawan sudah terbentuk pada database dw_phi.

| sk_karyawan | kode_cabang | nama_area_cabang | kode_karyawan | 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 |

Gambar 3.23 Tampilan Pada Localhost

3.4.3 Tabel Dimensi Waktu

1. Buat transformasi baru, kemudian cari step Generate rows.

Generate rows

Step name: Tanggal Awal

Limit: 10000

Never stop generating rows: ☐

Interval in ms (delay): 5000

Current row time field name: now

Previous row time field name: FiveSecondsAgo

Fields:

| # | Name | Type | Format | Length | Precision | Currency | Decimal | Group | Value | Set empty |
|---|--------------|------|------------|--------|-----------|----------|---------|-------|------------|-----------|
| 1 | tanggal_awal | Date | yyyy-MM-dd | | | | | | 2000-01-01 | |

Help OK Preview Cancel

Gambar 3.24 Tanggal Awal

2. Menambahkan step add sequence.

Add sequence

Step name: Hari Selanjutnya

Name of value: hari_selanjutnya

Use a database to generate the sequence

Use DB to get sequence? ☐

Connection: [dropdown] Edit... New... Wizard...

Schema name: [dropdown] Schemas...

Sequence name: SEQ Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☒

Counter name (optional): [text box]

Start at value: 0

Increment by: 1

Maximum value: 999999999

Help OK Cancel

Gambar 3.25 Hari Selanjutnya

3. Tambahkan step calculator.

Calculator

Step name: Hitung Hari

☒ Throw an error on non existing files

Fields:

| # | New field | Calculation | Field A | Field B | Field C | Value type | Length | Precision | Remove | Conversion mask | Decimal symbol | Group |
|---|---------------|------------------------------|---------------|------------------|---------|------------|--------|-----------|--------|-----------------|----------------|-------|
| 1 | tanggal | Date A + B Days | tanggal_awal | hari_selanjutnya | | Date | | | N | yyyy-MM-dd | | |
| 2 | tahun | Year of date A | tanggal | | | Integer | | | N | | | |
| 3 | quarter_int | Quarter of date A | tanggal | | | Integer | | | N | | | |
| 4 | quarter_const | Set field to constant val... | Q | | | String | | | | | | |
| 5 | kuartal | A + B | quarter_const | quarter_int | | String | | | | | | |
| 6 | bulan | Month of date A | tanggal | | | Integer | | | | | | |
| 7 | hari | Day of month of date A | tanggal | | | Integer | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |

Help OK Cancel

Gambar 3.26 Hitung Hari

Examine preview data

Rows of step: Hitung Hari (1000 rows)

| # | tanggal_awal | hari_selanjutnya | tanggal | tahun | quarter_int | quarter_const | kuartal | bulan | hari |
|-----|--------------|------------------|------------|-------|-------------|---------------|---------|-------|------|
| 1 | 2000-01-01 | 0 | 2000-01-01 | 2000 | 1 | Q | Q1 | 1 | 1 |
| 2 | 2000-01-01 | 1 | 2000-01-02 | 2000 | 1 | Q | Q1 | 1 | 2 |
| 3 | 2000-01-01 | 2 | 2000-01-03 | 2000 | 1 | Q | Q1 | 1 | 3 |
| 4 | 2000-01-01 | 3 | 2000-01-04 | 2000 | 1 | Q | Q1 | 1 | 4 |
| 5 | 2000-01-01 | 4 | 2000-01-05 | 2000 | 1 | Q | Q1 | 1 | 5 |
| 6 | 2000-01-01 | 5 | 2000-01-06 | 2000 | 1 | Q | Q1 | 1 | 6 |
| 7 | 2000-01-01 | 6 | 2000-01-07 | 2000 | 1 | Q | Q1 | 1 | 7 |
| 8 | 2000-01-01 | 7 | 2000-01-08 | 2000 | 1 | Q | Q1 | 1 | 8 |
| 9 | 2000-01-01 | 8 | 2000-01-09 | 2000 | 1 | Q | Q1 | 1 | 9 |
| 1.. | 2000-01-01 | 9 | 2000-01-10 | 2000 | 1 | Q | Q1 | 1 | 10 |
| 1.. | 2000-01-01 | 10 | 2000-01-11 | 2000 | 1 | Q | Q1 | 1 | 11 |
| 1.. | 2000-01-01 | 11 | 2000-01-12 | 2000 | 1 | Q | Q1 | 1 | 12 |
| 1.. | 2000-01-01 | 12 | 2000-01-13 | 2000 | 1 | Q | Q1 | 1 | 13 |
| 1.. | 2000-01-01 | 13 | 2000-01-14 | 2000 | 1 | Q | Q1 | 1 | 14 |
| 1.. | 2000-01-01 | 14 | 2000-01-15 | 2000 | 1 | Q | Q1 | 1 | 15 |
| 1.. | 2000-01-01 | 15 | 2000-01-16 | 2000 | 1 | Q | Q1 | 1 | 16 |
| 1.. | 2000-01-01 | 16 | 2000-01-17 | 2000 | 1 | Q | Q1 | 1 | 17 |
| 1.. | 2000-01-01 | 17 | 2000-01-18 | 2000 | 1 | Q | Q1 | 1 | 18 |
| 1.. | 2000-01-01 | 18 | 2000-01-19 | 2000 | 1 | Q | Q1 | 1 | 19 |
| 2.. | 2000-01-01 | 19 | 2000-01-20 | 2000 | 1 | Q | Q1 | 1 | 20 |
| 2.. | 2000-01-01 | 20 | 2000-01-21 | 2000 | 1 | Q | Q1 | 1 | 21 |
| 2.. | 2000-01-01 | 21 | 2000-01-22 | 2000 | 1 | Q | Q1 | 1 | 22 |
| 2.. | 2000-01-01 | 22 | 2000-01-23 | 2000 | 1 | Q | Q1 | 1 | 23 |
| 2.. | 2000-01-01 | 23 | 2000-01-24 | 2000 | 1 | Q | Q1 | 1 | 24 |
| 2.. | 2000-01-01 | 24 | 2000-01-25 | 2000 | 1 | Q | Q1 | 1 | 25 |

Gambar 3.27 Preview Hitung Hari

4. Mengonversi bulan dari integer menjadi string dengan menggunakan Data Grid.

Data grid

Step name Nama Bulan

| # | Name | Type | Format | Length | Precision | Currency | Decimal | Group | Null if | Set empty string? |
|---|------------|---------|--------|--------|-----------|----------|---------|-------|---------|-------------------|
| 1 | no_bulan | Integer | | | | | | | | |
| 2 | nama_bulan | String | | | | | | | | |
| 3 | | | | | | | | | | |

Data grid

Step name Nama Bulan

| # | no_bulan | nama_bulan |
|-----|----------|------------|
| 1 | 1 | Januari |
| 2 | 2 | Februari |
| 3 | 3 | Maret |
| 4 | 4 | April |
| 5 | 5 | Mei |
| 6 | 6 | Juni |
| 7 | 7 | Juli |
| 8 | 8 | Agustus |
| 9 | 9 | September |
| 1.. | 10 | Oktober |
| 1.. | 11 | November |
| 1.. | 12 | Desember |

Help OK Preview Cancel

Gambar 3.28 Nama Bulan

- Menghubungkan step Hitung dan Nama Bulan dengan menggunakan step Stream lookup.

Stream lookup

Step name: konversi bulan

Lookup step: Nama Bulan

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

| # | Field | LookupField |
|---|-------|-------------|
| 1 | bulan | no_bulan |

Specify the fields to retrieve :

| # | Field | New name | Default | Type |
|---|------------|----------|---------|---------|
| 1 | no_bulan | | | Integer |
| 2 | nama_bulan | | | String |

Preserve memory (costs CPU) ☒

Key and value are exactly one integer field ☐

Use sorted list (i.s.o. hashtable) ☐

Buttons: Help, OK, Cancel, Get Fields, Get lookup fields

Examine preview data

Rows of step: konversi bulan (1000 rows)

| # | tanggal_awal | hari_selanjutnya | tanggal | tahun | quarter_int | quarter_const | kuartal | bulan | hari | no_bulan | nama_bulan |
|-----|--------------|------------------|------------|-------|-------------|---------------|---------|-------|------|----------|------------|
| 1 | 2000-01-01 | 0 | 2000-01-01 | 2000 | 1 | Q | Q1 | 1 | 1 | 1 | Januari |
| 2 | 2000-01-01 | 1 | 2000-01-02 | 2000 | 1 | Q | Q1 | 1 | 2 | 1 | Januari |
| 3 | 2000-01-01 | 2 | 2000-01-03 | 2000 | 1 | Q | Q1 | 1 | 3 | 1 | Januari |
| 4 | 2000-01-01 | 3 | 2000-01-04 | 2000 | 1 | Q | Q1 | 1 | 4 | 1 | Januari |
| 5 | 2000-01-01 | 4 | 2000-01-05 | 2000 | 1 | Q | Q1 | 1 | 5 | 1 | Januari |
| 6 | 2000-01-01 | 5 | 2000-01-06 | 2000 | 1 | Q | Q1 | 1 | 6 | 1 | Januari |
| 7 | 2000-01-01 | 6 | 2000-01-07 | 2000 | 1 | Q | Q1 | 1 | 7 | 1 | Januari |
| 8 | 2000-01-01 | 7 | 2000-01-08 | 2000 | 1 | Q | Q1 | 1 | 8 | 1 | Januari |
| 9 | 2000-01-01 | 8 | 2000-01-09 | 2000 | 1 | Q | Q1 | 1 | 9 | 1 | Januari |
| 1.. | 2000-01-01 | 9 | 2000-01-10 | 2000 | 1 | Q | Q1 | 1 | 10 | 1 | Januari |
| 1.. | 2000-01-01 | 10 | 2000-01-11 | 2000 | 1 | Q | Q1 | 1 | 11 | 1 | Januari |
| 1.. | 2000-01-01 | 11 | 2000-01-12 | 2000 | 1 | Q | Q1 | 1 | 12 | 1 | Januari |
| 1.. | 2000-01-01 | 12 | 2000-01-13 | 2000 | 1 | Q | Q1 | 1 | 13 | 1 | Januari |
| 1.. | 2000-01-01 | 13 | 2000-01-14 | 2000 | 1 | Q | Q1 | 1 | 14 | 1 | Januari |
| 1.. | 2000-01-01 | 14 | 2000-01-15 | 2000 | 1 | Q | Q1 | 1 | 15 | 1 | Januari |
| 1.. | 2000-01-01 | 15 | 2000-01-16 | 2000 | 1 | Q | Q1 | 1 | 16 | 1 | Januari |
| 1.. | 2000-01-01 | 16 | 2000-01-17 | 2000 | 1 | Q | Q1 | 1 | 17 | 1 | Januari |
| 1.. | 2000-01-01 | 17 | 2000-01-18 | 2000 | 1 | Q | Q1 | 1 | 18 | 1 | Januari |
| 1.. | 2000-01-01 | 18 | 2000-01-19 | 2000 | 1 | Q | Q1 | 1 | 19 | 1 | Januari |
| 2.. | 2000-01-01 | 19 | 2000-01-20 | 2000 | 1 | Q | Q1 | 1 | 20 | 1 | Januari |
| 2.. | 2000-01-01 | 20 | 2000-01-21 | 2000 | 1 | Q | Q1 | 1 | 21 | 1 | Januari |
| 2.. | 2000-01-01 | 21 | 2000-01-22 | 2000 | 1 | Q | Q1 | 1 | 22 | 1 | Januari |
| 2.. | 2000-01-01 | 22 | 2000-01-23 | 2000 | 1 | Q | Q1 | 1 | 23 | 1 | Januari |
| 2.. | 2000-01-01 | 23 | 2000-01-24 | 2000 | 1 | Q | Q1 | 1 | 24 | 1 | Januari |
| 2.. | 2000-01-01 | 24 | 2000-01-25 | 2000 | 1 | Q | Q1 | 1 | 25 | 1 | Januari |

Gambar 3.29 Konversi Bulan

- Membuat kolom sk_waktu dengan menggunakan step Modified JavaScript value.

Modified JavaScript value

Step name: Modified JavaScript value

JavaScript functions:

- Transform Scripts
- Transform Constants
- Transform Function
- Input fields
 - tanggal_awal
 - hari_selanjutnya
 - tanggal
 - tahun
 - quarter_int
 - quarter_const
 - kuartal
 - bulan

JavaScript:

```
//Script here
var sk_waktu = (tahun*1000) + (bulan*100) + hari_selanjutnya
```

Position: 2, 59

Compatibility mode? ☐ Optimization level: 9

| # | Fieldname | Rename to | Type | Length | Precision | Replace value 'Fieldname' or 'Rename to' |
|---|-----------|-----------|--------|--------|-----------|--|
| 1 | sk_waktu | | Number | 16 | 2 | N |

Buttons: Help, OK, Cancel, Get variables, Test script

Gambar 3.30 Membuat kolom sk_waktu

7. Periksa hasilnya dengan klik kanan Preview >> Quick Launch.

Examine preview data

Rows of step: Modified JavaScript value (1000 rows)

| # | tanggal_awal | hari_selanjutnya | tanggal | tahun | quarter_int | quarter_const | kuartal | bulan | hari | no_bulan | nama_bulan | sk_waktu |
|-----|--------------|------------------|------------|-------|-------------|---------------|---------|-------|------|----------|------------|-----------|
| 1 | 2000-01-01 | 0 | 2000-01-01 | 2000 | 1 | Q | Q1 | 1 | 1 | 1 | Januari | 2000100.0 |
| 2 | 2000-01-01 | 1 | 2000-01-02 | 2000 | 1 | Q | Q1 | 1 | 2 | 1 | Januari | 2000101.0 |
| 3 | 2000-01-01 | 2 | 2000-01-03 | 2000 | 1 | Q | Q1 | 1 | 3 | 1 | Januari | 2000102.0 |
| 4 | 2000-01-01 | 3 | 2000-01-04 | 2000 | 1 | Q | Q1 | 1 | 4 | 1 | Januari | 2000103.0 |
| 5 | 2000-01-01 | 4 | 2000-01-05 | 2000 | 1 | Q | Q1 | 1 | 5 | 1 | Januari | 2000104.0 |
| 6 | 2000-01-01 | 5 | 2000-01-06 | 2000 | 1 | Q | Q1 | 1 | 6 | 1 | Januari | 2000105.0 |
| 7 | 2000-01-01 | 6 | 2000-01-07 | 2000 | 1 | Q | Q1 | 1 | 7 | 1 | Januari | 2000106.0 |
| 8 | 2000-01-01 | 7 | 2000-01-08 | 2000 | 1 | Q | Q1 | 1 | 8 | 1 | Januari | 2000107.0 |
| 9 | 2000-01-01 | 8 | 2000-01-09 | 2000 | 1 | Q | Q1 | 1 | 9 | 1 | Januari | 2000108.0 |
| 1.. | 2000-01-01 | 9 | 2000-01-10 | 2000 | 1 | Q | Q1 | 1 | 10 | 1 | Januari | 2000109.0 |
| 1.. | 2000-01-01 | 10 | 2000-01-11 | 2000 | 1 | Q | Q1 | 1 | 11 | 1 | Januari | 2000110.0 |
| 1.. | 2000-01-01 | 11 | 2000-01-12 | 2000 | 1 | Q | Q1 | 1 | 12 | 1 | Januari | 2000111.0 |
| 1.. | 2000-01-01 | 12 | 2000-01-13 | 2000 | 1 | Q | Q1 | 1 | 13 | 1 | Januari | 2000112.0 |
| 1.. | 2000-01-01 | 13 | 2000-01-14 | 2000 | 1 | Q | Q1 | 1 | 14 | 1 | Januari | 2000113.0 |
| 1.. | 2000-01-01 | 14 | 2000-01-15 | 2000 | 1 | Q | Q1 | 1 | 15 | 1 | Januari | 2000114.0 |
| 1.. | 2000-01-01 | 15 | 2000-01-16 | 2000 | 1 | Q | Q1 | 1 | 16 | 1 | Januari | 2000115.0 |
| 1.. | 2000-01-01 | 16 | 2000-01-17 | 2000 | 1 | Q | Q1 | 1 | 17 | 1 | Januari | 2000116.0 |
| 1.. | 2000-01-01 | 17 | 2000-01-18 | 2000 | 1 | Q | Q1 | 1 | 18 | 1 | Januari | 2000117.0 |
| 1.. | 2000-01-01 | 18 | 2000-01-19 | 2000 | 1 | Q | Q1 | 1 | 19 | 1 | Januari | 2000118.0 |
| 2.. | 2000-01-01 | 19 | 2000-01-20 | 2000 | 1 | Q | Q1 | 1 | 20 | 1 | Januari | 2000119.0 |
| 2.. | 2000-01-01 | 20 | 2000-01-21 | 2000 | 1 | Q | Q1 | 1 | 21 | 1 | Januari | 2000120.0 |
| 2.. | 2000-01-01 | 21 | 2000-01-22 | 2000 | 1 | Q | Q1 | 1 | 22 | 1 | Januari | 2000121.0 |
| 2.. | 2000-01-01 | 22 | 2000-01-23 | 2000 | 1 | Q | Q1 | 1 | 23 | 1 | Januari | 2000122.0 |
| 2.. | 2000-01-01 | 23 | 2000-01-24 | 2000 | 1 | Q | Q1 | 1 | 24 | 1 | Januari | 2000123.0 |
| 2.. | 2000-01-01 | 24 | 2000-01-25 | 2000 | 1 | Q | Q1 | 1 | 25 | 1 | Januari | 2000124.0 |

Gambar 3.31 Preview

8. Mengatur posisi kolom dengan menggunakan Select values.

Select values

Step name: atur kolom

Select & Alter Remove Meta-data

Fields:

| # | Fieldname | Rename to | Length | Precision |
|-----|-----------|-----------|--------|-----------|
| 1 | sk_waktu | | | |
| 2 | hari | | | |
| 3 | kuartal | | | |
| 4 | bulan | | | |
| 5 | tahun | | | |
| 6 | tanggal | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 1.. | | | | |
| 1.. | | | | |
| 1 | | | | |

Get fields to select Edit Mapping

Include unspecified fields, ordered ☐

Help OK Cancel

Examine preview data

Rows of step: atur kolom (1000 rows)

| # | sk_waktu | hari | kuartal | bulan | tahun | tanggal |
|-----|-----------|------|---------|-------|-------|------------|
| 1 | 2000100.0 | 1 | Q1 | 1 | 2000 | 2000-01-01 |
| 2 | 2000101.0 | 2 | Q1 | 1 | 2000 | 2000-01-02 |
| 3 | 2000102.0 | 3 | Q1 | 1 | 2000 | 2000-01-03 |
| 4 | 2000103.0 | 4 | Q1 | 1 | 2000 | 2000-01-04 |
| 5 | 2000104.0 | 5 | Q1 | 1 | 2000 | 2000-01-05 |
| 6 | 2000105.0 | 6 | Q1 | 1 | 2000 | 2000-01-06 |
| 7 | 2000106.0 | 7 | Q1 | 1 | 2000 | 2000-01-07 |
| 8 | 2000107.0 | 8 | Q1 | 1 | 2000 | 2000-01-08 |
| 9 | 2000108.0 | 9 | Q1 | 1 | 2000 | 2000-01-09 |
| 1.. | 2000109.0 | 10 | Q1 | 1 | 2000 | 2000-01-10 |
| 1.. | 2000110.0 | 11 | Q1 | 1 | 2000 | 2000-01-11 |
| 1.. | 2000111.0 | 12 | Q1 | 1 | 2000 | 2000-01-12 |
| 1.. | 2000112.0 | 13 | Q1 | 1 | 2000 | 2000-01-13 |
| 1.. | 2000113.0 | 14 | Q1 | 1 | 2000 | 2000-01-14 |
| 1.. | 2000114.0 | 15 | Q1 | 1 | 2000 | 2000-01-15 |
| 1.. | 2000115.0 | 16 | Q1 | 1 | 2000 | 2000-01-16 |
| 1.. | 2000116.0 | 17 | Q1 | 1 | 2000 | 2000-01-17 |
| 1.. | 2000117.0 | 18 | Q1 | 1 | 2000 | 2000-01-18 |
| 1.. | 2000118.0 | 19 | Q1 | 1 | 2000 | 2000-01-19 |
| 2.. | 2000119.0 | 20 | Q1 | 1 | 2000 | 2000-01-20 |
| 2.. | 2000120.0 | 21 | Q1 | 1 | 2000 | 2000-01-21 |
| 2.. | 2000121.0 | 22 | Q1 | 1 | 2000 | 2000-01-22 |
| 2.. | 2000122.0 | 23 | Q1 | 1 | 2000 | 2000-01-23 |
| 2.. | 2000123.0 | 24 | Q1 | 1 | 2000 | 2000-01-24 |
| 2.. | 2000124.0 | 25 | Q1 | 1 | 2000 | 2000-01-25 |

Gambar 3.32 Atur kolom

9. Menyimpan dalam database dw_phi dengan nama tabel dim_waktu menggunakan step Table output.

Table output

Step name: Table output

Connection: conn-dw_phi

Target schema:

Target table: dim_waktu

Commit size: 1000

Truncate table: ☐

Ignore insert errors: ☐

Specify database fields: ☐

Main options: Database fields

Partition data over tables: ☐

Partitioning field:

Partition data per month: ☐

Partition data per day: ☐

Use batch update for inserts: ☒

Is the name of the table defined in a field?: ☐

Field that contains name of table:

Store the tablename field: ☒

Return auto-generated key: ☐

Name of auto-generated key field:

Help OK Cancel SQL

Gambar 3.33 Dim_waktu

10. Jangan lupa simpan file dan tekan tombol Run untuk mengeksekusi.

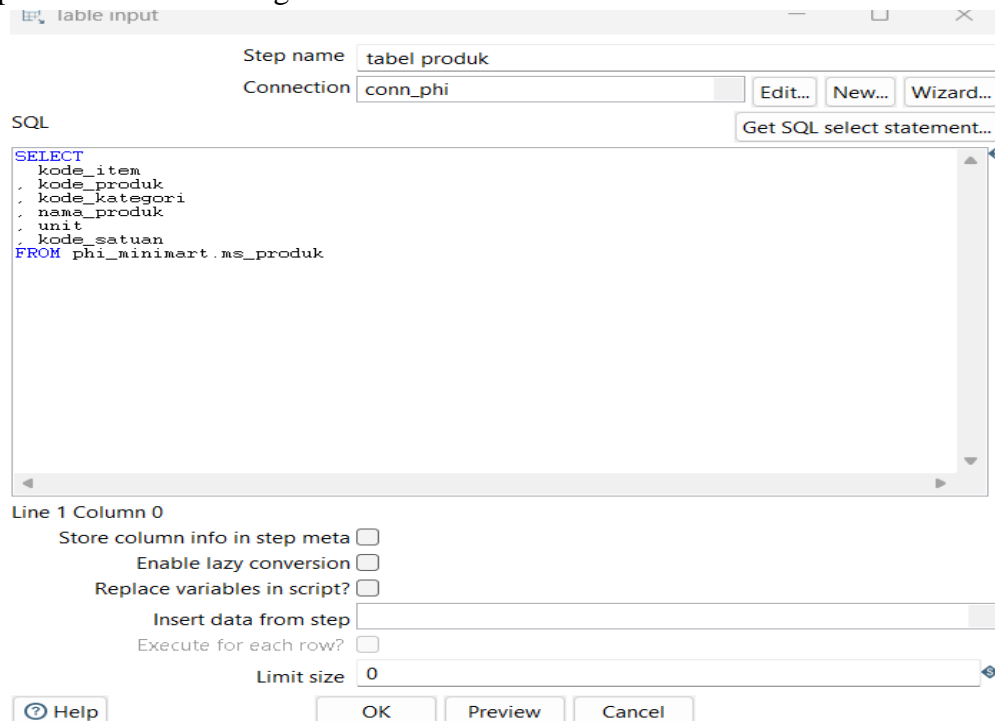


Gambar 3.34 Running

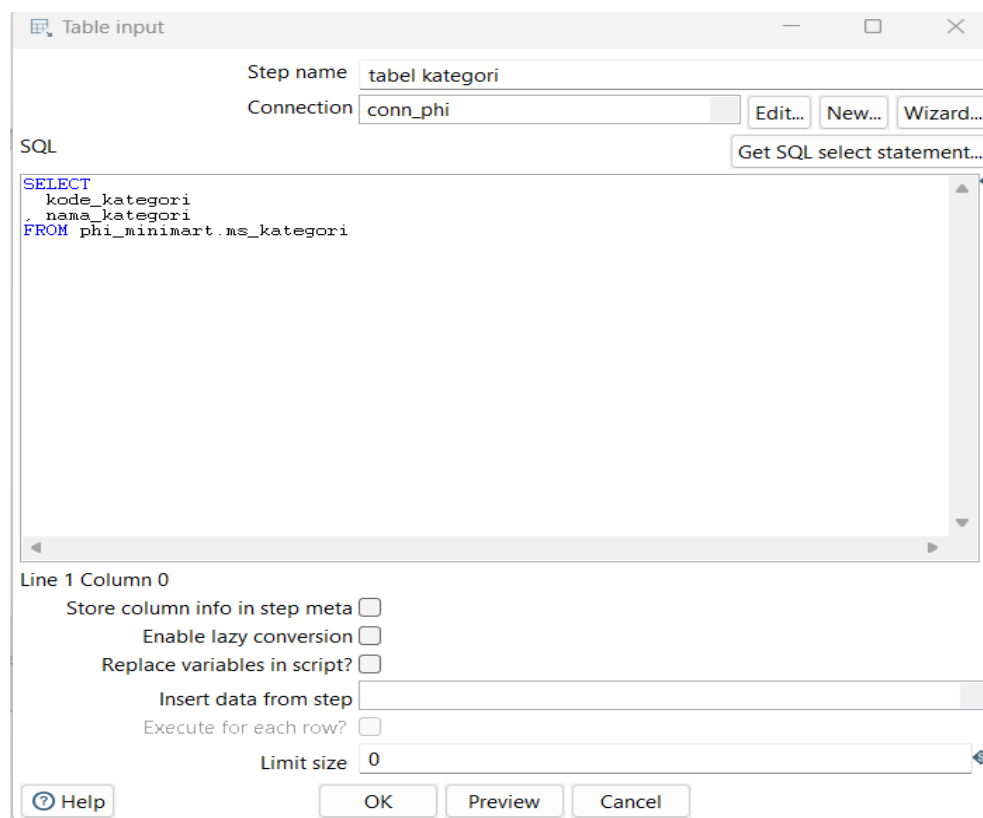
Tugas

1. Rancangan Tabel Dimensi Produk

- Pada Design pilih step Table Input sebanyak 2 kali, kemudian Edit menjadi tabel produk dan tabel kategori.



Gambar 3.35 Tabel_produk



Gambar 3.36 Tabel_kategori

- Gabungkan tabel kategori dan tabel produk menggunakan step Stream Lookup.

Stream lookup

Step name: join produk kategori

Lookup step: tabel kategori

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

| # | Field | LookupField |
|---|----------|---------------|
| 1 | kode_... | kode_kategori |

Specify the fields to retrieve :

| # | Field | New name | Default | Type |
|---|----------|----------|---------|--------|
| 1 | kode_... | | | String |
| 2 | nama_... | | | String |

Preserve memory (costs CPU) ☒

Key and value are exactly one integer field ☒

Use sorted list (i.s.o. hashtable) ☐

Buttons: Help, OK, Cancel, Get Fields, Get lookup fields

Gambar 3.37 Menggabungkan tabel produk dengan tabel kategori

Examine preview data

Rows of step: join produk kategori (41 rows)

| # | kode_item | kode_produk | kode_kategori | nama_produk | unit | kode_satuan | kode_kategori_1 | nama_kategori |
|-----|-----------|--------------|---------------|----------------------------------|------|-------------|-----------------|-------------------|
| 1 | ITM-001 | PROD-0000001 | KTG-003 | bawang merah 1kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 2 | ITM-002 | PROD-0000002 | KTG-003 | bawang putih 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 3 | ITM-003 | PROD-0000003 | KTG-003 | buncis 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 4 | ITM-004 | PROD-0000004 | KTG-003 | kacang panjang 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 5 | ITM-005 | PROD-0000005 | KTG-003 | kacang hijau 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 6 | ITM-006 | PROD-0000006 | KTG-003 | kentang 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 7 | ITM-007 | PROD-0000007 | KTG-003 | ketimun 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 8 | ITM-008 | PROD-0000008 | KTG-003 | kobis 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 9 | ITM-009 | PROD-0000009 | KTG-003 | tomat 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 1.. | ITM-010 | PROD-0000010 | KTG-003 | ubi kayu basah 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 1.. | ITM-011 | PROD-0000011 | KTG-003 | ubi jalar 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 1.. | ITM-012 | PROD-0000012 | KTG-003 | wortel 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran |
| 1.. | ITM-022 | PROD-0000013 | KTG-002 | susu kotak (800 ml) | 1 | ltk | KTG-002 | Makanan & Minuman |
| 1.. | ITM-023 | PROD-0000014 | KTG-002 | telur ayam ras 1 kg | 1 | kg | KTG-002 | Makanan & Minuman |
| 1.. | ITM-023 | PROD-0000015 | KTG-002 | telur ayam kampung 1 kg | 1 | kg | KTG-002 | Makanan & Minuman |
| 1.. | ITM-013 | PROD-0000016 | KTG-002 | mie instant 1 kotak (40 bungkus) | 40 | bks | KTG-002 | Makanan & Minuman |
| 1.. | ITM-014 | PROD-0000017 | KTG-002 | air mineral 600 ml | 1 | btl | KTG-002 | Makanan & Minuman |
| 1.. | ITM-015 | PROD-0000018 | KTG-002 | jus kesehatan 600 ml | 1 | btl | KTG-002 | Makanan & Minuman |
| 1.. | ITM-016 | PROD-0000019 | KTG-002 | nasi goreng instant (1 ons) | 1 | bks | KTG-002 | Makanan & Minuman |
| 2.. | ITM-017 | PROD-0000020 | KTG-002 | snack gurih 1 ons | 1 | ons | KTG-002 | Makanan & Minuman |
| 2.. | ITM-018 | PROD-0000021 | KTG-002 | kacang goreng 1 kg | 1 | kg | KTG-002 | Makanan & Minuman |
| 2.. | ITM-019 | PROD-0000022 | KTG-002 | kacang mete 1 kg | 1 | kg | KTG-002 | Makanan & Minuman |
| 2.. | ITM-020 | PROD-0000023 | KTG-002 | markisa 600 ml | 1 | btl | KTG-002 | Makanan & Minuman |
| 2.. | ITM-021 | PROD-0000024 | KTG-002 | bumbu fried chicken | 1 | bks | KTG-002 | Makanan & Minuman |
| 2.. | ITM-022 | PROD-0000025 | KTG-002 | susu kotak 1 l | 1 | btl | KTG-002 | Makanan & Minuman |

Close

Gambar 3.38 Preview

- Membuat kolom sk_produk dengan menggunakan step Add sequence.

Add sequence

Step name: sk_produk

Name of value: sk_produk

Use a database to generate the sequence

Use DB to get sequence? ☐

Connection: [Dropdown] Edit... New... Wizard...

Schema name: [Dropdown] Schemas...

Sequence name: SEQ_ Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☒

Counter name (optional): [Text Box]

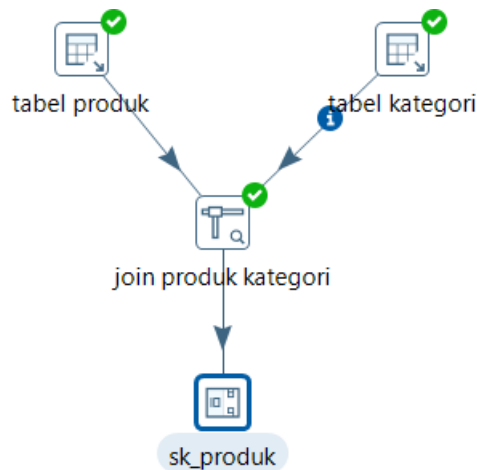
Start at value: 1

Increment by: 1

Maximum value: 999999999

Buttons: Help, OK, Cancel

Gambar 3.39 Kolom sk_produk



Gambar 3.40 Sk_produk

Examine preview data

ows of step: sk_produk (41 rows)

| # | kode_item | kode_produk | kode_kategori | nama_produk | unit | kode_satuan | kode_kategori_1 | nama_kategori | sk_produk |
|----|-----------|--------------|---------------|----------------------------------|------|-------------|-----------------|-------------------|-----------|
| 1 | ITM-001 | PROD-0000001 | KTG-003 | bawang merah 1kg | 1 | kg | KTG-003 | Sayur-Sayuran | 1 |
| 2 | ITM-002 | PROD-0000002 | KTG-003 | bawang putih 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 2 |
| 3 | ITM-003 | PROD-0000003 | KTG-003 | buncis 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 3 |
| 4 | ITM-004 | PROD-0000004 | KTG-003 | kacang panjang 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 4 |
| 5 | ITM-005 | PROD-0000005 | KTG-003 | kacang hijau 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 5 |
| 6 | ITM-006 | PROD-0000006 | KTG-003 | kentang 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 6 |
| 7 | ITM-007 | PROD-0000007 | KTG-003 | ketimun 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 7 |
| 8 | ITM-008 | PROD-0000008 | KTG-003 | kobis 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 8 |
| 9 | ITM-009 | PROD-0000009 | KTG-003 | tomat 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 9 |
| 10 | ITM-010 | PROD-0000010 | KTG-003 | ubi kayu basah 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 10 |
| 11 | ITM-011 | PROD-0000011 | KTG-003 | ubi jalar 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 11 |
| 12 | ITM-012 | PROD-0000012 | KTG-003 | wortel 1 kg | 1 | kg | KTG-003 | Sayur-Sayuran | 12 |
| 13 | ITM-022 | PROD-0000013 | KTG-002 | susu kotak (800 ml) | 1 | ktk | KTG-002 | Makanan & Minuman | 13 |
| 14 | ITM-023 | PROD-0000014 | KTG-002 | telur ayam ras 1 kg | 1 | kg | KTG-002 | Makanan & Minuman | 14 |
| 15 | ITM-023 | PROD-0000015 | KTG-002 | telur ayam kampung 1 kg | 1 | kg | KTG-002 | Makanan & Minuman | 15 |
| 16 | ITM-013 | PROD-0000016 | KTG-002 | mie instant 1 kotak (40 bungkus) | 40 | bks | KTG-002 | Makanan & Minuman | 16 |
| 17 | ITM-014 | PROD-0000017 | KTG-002 | air mineral 600 ml | 1 | btl | KTG-002 | Makanan & Minuman | 17 |
| 18 | ITM-015 | PROD-0000018 | KTG-002 | jus kesehatan 600 ml | 1 | btl | KTG-002 | Makanan & Minuman | 18 |
| 19 | ITM-016 | PROD-0000019 | KTG-002 | nasi goreng instant (1 ons) | 1 | bks | KTG-002 | Makanan & Minuman | 19 |
| 20 | ITM-017 | PROD-0000020 | KTG-002 | snack gurih 1 ons | 1 | ons | KTG-002 | Makanan & Minuman | 20 |
| 21 | ITM-018 | PROD-0000021 | KTG-002 | kacang goreng 1 kg | 1 | kg | KTG-002 | Makanan & Minuman | 21 |
| 22 | ITM-019 | PROD-0000022 | KTG-002 | kacang mete 1 kg | 1 | kg | KTG-002 | Makanan & Minuman | 22 |
| 23 | ITM-020 | PROD-0000023 | KTG-002 | markisa 600 ml | 1 | btl | KTG-002 | Makanan & Minuman | 23 |
| 24 | ITM-021 | PROD-0000024 | KTG-002 | bumbu fried chicken | 1 | bks | KTG-002 | Makanan & Minuman | 24 |
| 25 | ITM-022 | PROD-0000025 | KTG-002 | susu kotak 1 l | 1 | btl | KTG-002 | Makanan & Minuman | 25 |

Close

Gambar 3.41 Preview

- Agar kolom sk_kolom bisa berada di urutan pertama, kita menggunakan step Select Values.

Select values

Step name: atur kolom

Select & Alter Remove Meta-data

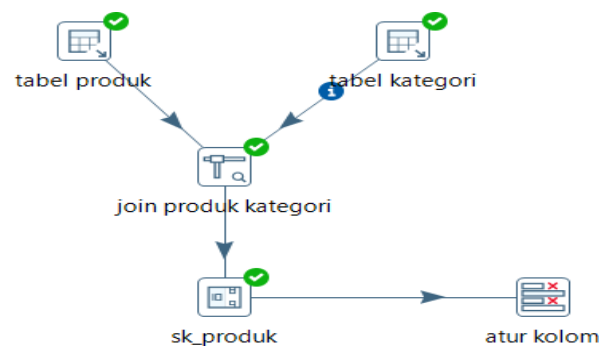
Fields:

| # | Fieldname | Rename to | Length | Precision |
|----|---------------|-----------|--------|-----------|
| 1 | sk_produk | | | |
| 2 | kode_produk | | | |
| 3 | nama_produk | | | |
| 4 | kode_kategori | | | |
| 5 | nama_kategori | | | |
| 6 | unit | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |

Get fields to select Edit Mapping

Include unspecified fields, ordered ☐

Help OK Cancel



Gambar 3.42 Atur kolom

Examine preview data

Rows of step: atur kolom (41 rows)

| # | sk_produk | kode_produk | nama_produk | kode_kategori | nama_kategori | unit |
|----|-----------|--------------|----------------------------------|---------------|-------------------|------|
| 1 | 1 | PROD-0000001 | bawang merah 1kg | KTG-003 | Sayur-Sayuran | 1 |
| 2 | 2 | PROD-0000002 | bawang putih 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 3 | 3 | PROD-0000003 | buncis 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 4 | 4 | PROD-0000004 | kacang panjang 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 5 | 5 | PROD-0000005 | kacang hijau 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 6 | 6 | PROD-0000006 | kentang 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 7 | 7 | PROD-0000007 | ketimun 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 8 | 8 | PROD-0000008 | kobis 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 9 | 9 | PROD-0000009 | tomat 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 10 | 10 | PROD-0000010 | ubi kayu basah 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 11 | 11 | PROD-0000011 | ubi jalar 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 12 | 12 | PROD-0000012 | wortel 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 13 | 13 | PROD-0000013 | susu kotak (800 ml) | KTG-002 | Makanan & Minuman | 1 |
| 14 | 14 | PROD-0000014 | telur ayam ras 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 15 | 15 | PROD-0000015 | telur ayam kampung 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 16 | 16 | PROD-0000016 | mie instant 1 kotak (40 bungkus) | KTG-002 | Makanan & Minuman | 40 |
| 17 | 17 | PROD-0000017 | air mineral 600 ml | KTG-002 | Makanan & Minuman | 1 |
| 18 | 18 | PROD-0000018 | jus kesehatan 600 ml | KTG-002 | Makanan & Minuman | 1 |
| 19 | 19 | PROD-0000019 | nasi goreng instant (1 ons) | KTG-002 | Makanan & Minuman | 1 |
| 20 | 20 | PROD-0000020 | snack gurih 1 ons | KTG-002 | Makanan & Minuman | 1 |
| 21 | 21 | PROD-0000021 | kacang goreng 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 22 | 22 | PROD-0000022 | kacang mete 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 23 | 23 | PROD-0000023 | markisa 600 ml | KTG-002 | Makanan & Minuman | 1 |
| 24 | 24 | PROD-0000024 | bumbu fried chicken | KTG-002 | Makanan & Minuman | 1 |
| 25 | 25 | PROD-0000025 | susu kotak 1 l | KTG-002 | Makanan & Minuman | 1 |

Gambar 3.43 Preview atur kolom

- Langkah berikutnya kita simpan dalam nama tabel dim_produk, menggunakan step Table output.

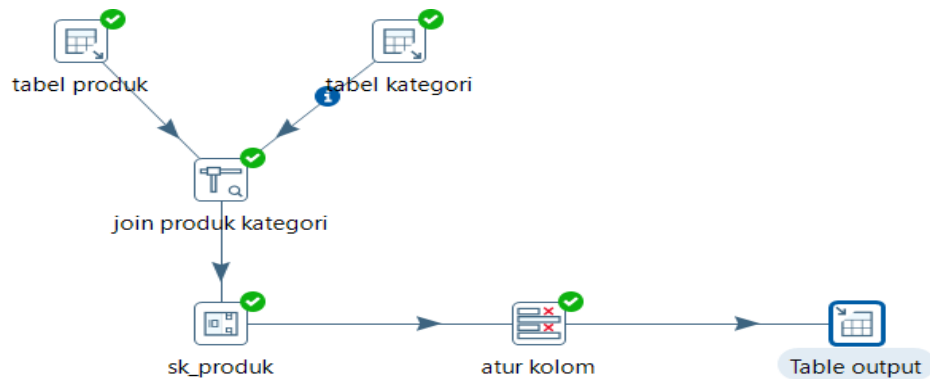


Table output

Step name: dim produk

Connection: coon-dw_phi

Target schema:

Target table: dim_produk

Commit size: 1000

Truncate table: ☐

Ignore insert errors: ☐

Specify database fields: ☐

Main options

Database fields

Partition data over tables: ☐

Partitioning field:

Partition data per month: ☒

Partition data per day: ☐

Use batch update for inserts: ☒

Is the name of the table defined in a field?: ☐

Field that contains name of table:

Store the tablename field: ☒

Return auto-generated key: ☐

Name of auto-generated key field:

Help OK Cancel SQL

Simple SQL editor

SQL statements, separated by semicolon ';' :

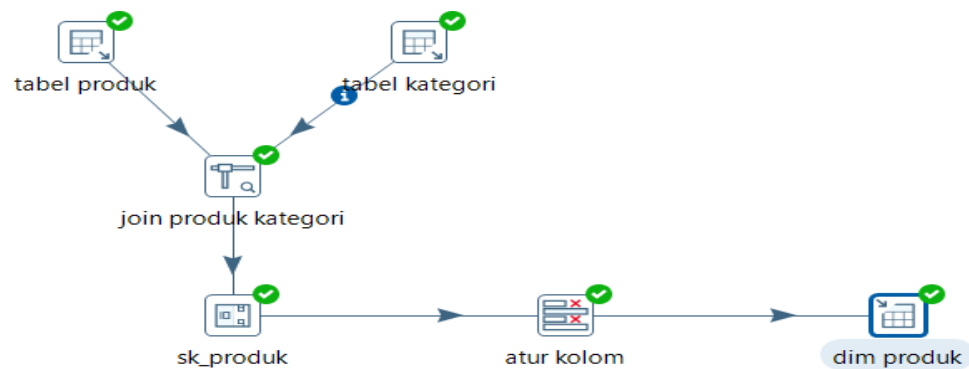
```
CREATE TABLE dim_produk
(
  sk_produk INT
, kode_produk VARCHAR(12)
, nama_produk VARCHAR(100)
, kode_kategori VARCHAR(7)
, nama_kategori VARCHAR(17)
, unit INT
)
;
```

Line 1 column 0

Execute Clear cache Close

Gambar 3. Dim_produk

- Menyimpan dan running.



Gambar 3.44 Running

SELECT * FROM `dim_produk`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

1 > >> ☐ Show all Number of rows: 25 Filter rows:

Extra options

| sk_produk | kode_produk | nama_produk | kode_kategori | nama_kategori | unit |
|-----------|--------------|----------------------------------|---------------|-------------------|------|
| 1 | PROD-0000001 | bawang merah 1kg | KTG-003 | Sayur-Sayuran | 1 |
| 2 | PROD-0000002 | bawang putih 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 3 | PROD-0000003 | buncis 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 4 | PROD-0000004 | kacang panjang 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 5 | PROD-0000005 | kacang hijau 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 6 | PROD-0000006 | kentang 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 7 | PROD-0000007 | ketimun 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 8 | PROD-0000008 | kobis 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 9 | PROD-0000009 | tomat 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 10 | PROD-0000010 | ubi kayu basah 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 11 | PROD-0000011 | ubi jalar 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 12 | PROD-0000012 | wortel 1 kg | KTG-003 | Sayur-Sayuran | 1 |
| 13 | PROD-0000013 | susu kotak (800 ml) | KTG-002 | Makanan & Minuman | 1 |
| 14 | PROD-0000014 | telur ayam ras 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 15 | PROD-0000015 | telur ayam kampung 1 kg | KTG-002 | Makanan & Minuman | 1 |
| 16 | PROD-0000016 | mie instant 1 kotak (40 bungkus) | KTG-002 | Makanan & Minuman | 40 |
| 17 | PROD-0000017 | air mineral 600 ml | KTG-002 | Makanan & Minuman | 1 |
| 18 | PROD-0000018 | jus kesehatan 600 ml | KTG-002 | Makanan & Minuman | 1 |
| 19 | PROD-0000019 | nasi goreng instant (1 ons) | KTG-002 | Makanan & Minuman | 1 |
| 20 | PROD-0000020 | snack aurih 1 ons | KTG-002 | Makanan & Minuman | 1 |

Console

Gambar 3.45 Tampilan Pada Localhost

2. Rancangan Tabel Dimensi Cabang

- Membuat tabel cabang dan tabel kota menggunakan step table input.

Table input

Step name

Connection [Edit...](#) [New...](#) [Wizard...](#)

SQL [Get SQL select statement...](#)

```
SELECT
  kode_cabang
, nama_cabang
, kode_kota
FROM phi_minimart.ms_cabang
```

Gambar 3.46 Tabel cabang

Table input

Step name

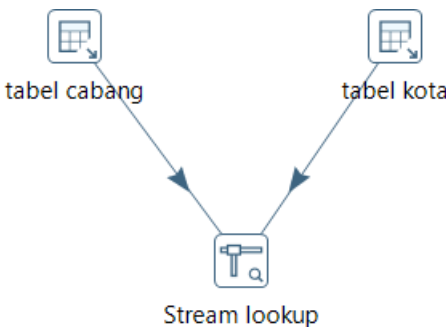
Connection [Edit...](#) [New...](#) [Wizard...](#)

SQL [Get SQL select statement...](#)

```
SELECT
  kode_kota
, nama_kota
, kode_propinsi
FROM phi_minimart.ms_kota
```

Gambar 3.47 Tabel kota

- Menggabungkan tabel cabang dan tabel kota dengan menggunakan step Stream lookup.



Stream lookup

Stream lookup configuration window:

Step name: join cabang kota

Lookup step: tabel kota

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

| # | Field | LookupField |
|---|----------|-------------|
| 1 | kode_... | nama_kota |

Specify the fields to retrieve :

| # | Field | New name | Default | Type |
|---|----------|----------|---------|--------|
| 1 | nama... | | | String |
| 2 | kode_... | | | String |
| 3 | | | | |

Preserve memory (costs CPU) ☒

Key and value are exactly one integer field ☐

Use sorted list (i.s.o. hashtable) ☐

Buttons: Help, OK, Cancel, Get Fields, Get lookup fields

Gambar 3.48 Join cabang kota

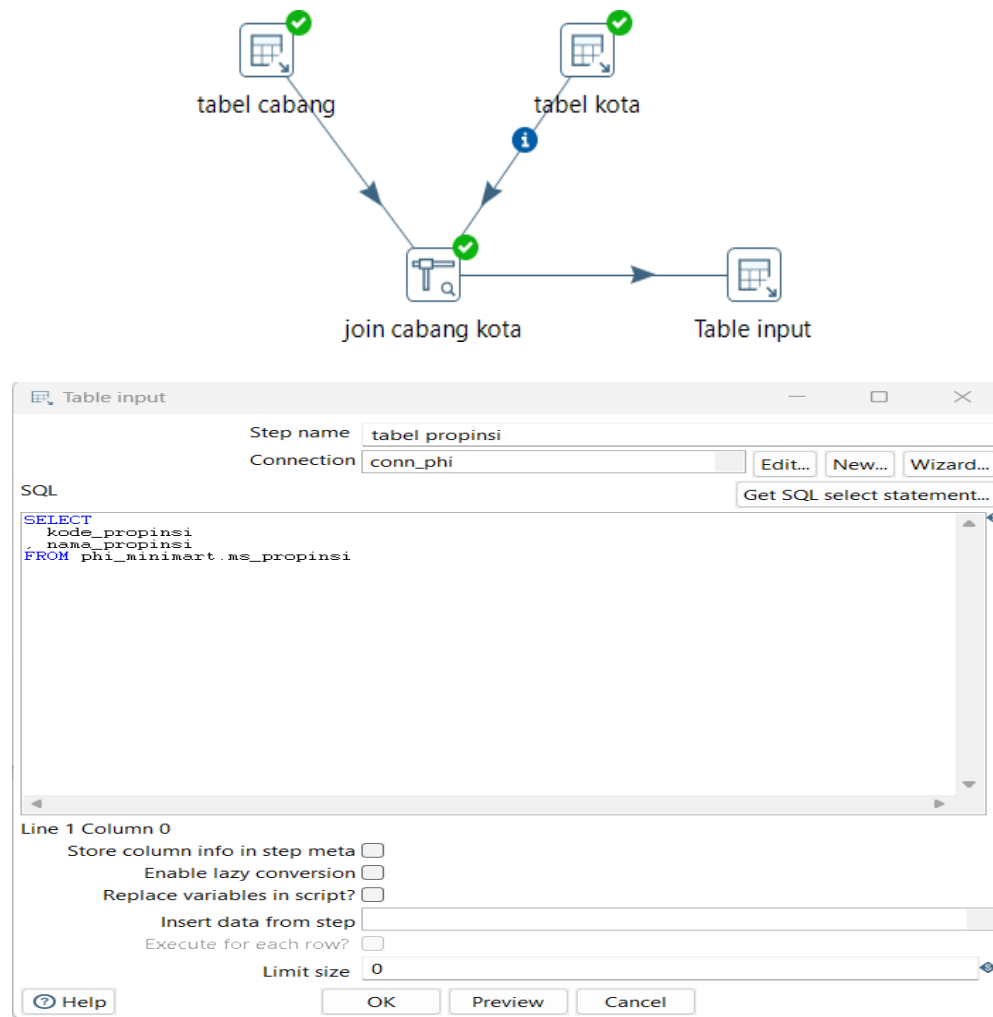
Examine preview data

Rows of step: join cabang kota (500 rows)

| # | kode_cabang | nama_cabang | kode_kota | nama_kota | kode_propinsi |
|-----|-------------|-------------------------------------|-----------|----------------|---------------|
| 1 | CABANG-001 | PHI Mini Market - Lhokseumawe 01 | KOTA-003 | Lhokseumawe | P33 |
| 2 | CABANG-002 | PHI Mini Market - Bau-Bau 01 | KOTA-083 | Bau-Bau | P25 |
| 3 | CABANG-003 | PHI Mini Market - Bogor 01 | KOTA-039 | Bogor | P08 |
| 4 | CABANG-004 | PHI Mini Market - Medan 01 | KOTA-007 | Medan | P30 |
| 5 | CABANG-005 | PHI Mini Market - Bogor 02 | KOTA-039 | Bogor | P08 |
| 6 | CABANG-006 | PHI Mini Market - Sukabumi 01 | KOTA-043 | Sukabumi | P08 |
| 7 | CABANG-007 | PHI Mini Market - Tegal 01 | KOTA-055 | Tegal | P09 |
| 8 | CABANG-008 | PHI Mini Market - Jakarta Timur 01 | KOTA-048 | Jakarta Timur | P32 |
| 9 | CABANG-009 | PHI Mini Market - Pasuruan 01 | KOTA-062 | Pasuruan | P10 |
| 1.. | CABANG-010 | PHI Mini Market - Langsa 01 | KOTA-002 | Langsa | P33 |
| 1.. | CABANG-011 | PHI Mini Market - Tarakan 01 | KOTA-078 | Tarakan | P13 |
| 1.. | CABANG-012 | PHI Mini Market - Tebing Tinggi 01 | KOTA-012 | Tebing Tinggi | P30 |
| 1.. | CABANG-013 | PHI Mini Market - Bekasi 01 | KOTA-038 | Bekasi | P08 |
| 1.. | CABANG-014 | PHI Mini Market - Batu 01 | KOTA-056 | Batu | P10 |
| 1.. | CABANG-015 | PHI Mini Market - Banjarmasin 01 | KOTA-073 | Banjarmasin | P14 |
| 1.. | CABANG-016 | PHI Mini Market - Padang Panjang 01 | KOTA-019 | Padang Panjang | P28 |
| 1.. | CABANG-017 | PHI Mini Market - Balikpapan 01 | KOTA-075 | Balikpapan | P13 |
| 1.. | CABANG-018 | PHI Mini Market - Sukabumi 02 | KOTA-043 | Sukabumi | P08 |
| 1.. | CABANG-019 | PHI Mini Market - Serang 01 | KOTA-035 | Serang | P03 |
| 2.. | CABANG-020 | PHI Mini Market - Bontang 01 | KOTA-076 | Bontang | P13 |
| 2.. | CABANG-021 | PHI Mini Market - Pasuruan 02 | KOTA-062 | Pasuruan | P10 |
| 2.. | CABANG-022 | PHI Mini Market - Padang 01 | KOTA-018 | Padang | P28 |
| 2.. | CABANG-023 | PHI Mini Market - Lubuklinggau 01 | KOTA-024 | Lubuklinggau | P29 |
| 2.. | CABANG-024 | PHI Mini Market - Madiun 01 | KOTA-059 | Madiun | P10 |
| 2.. | CABANG-025 | PHI Mini Market - Kupang 01 | KOTA-069 | Kupang | P21 |

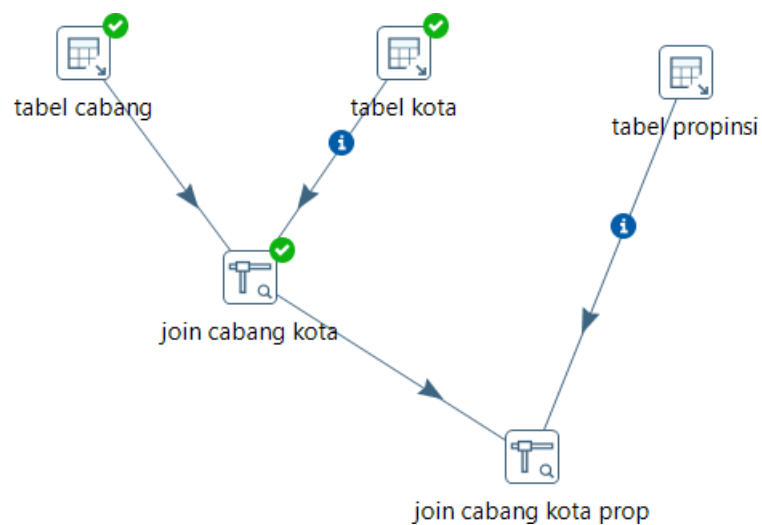
Gambar 349. Preview

- Membuat tabel propinsi menggunakan step Table Input



Gambar 3.50 Tabel propinsi

- Menggabungkan tabel propinsi dengan join cabang kota dengan menggunakan Stream Lookup.



Stream lookup

Step name

Lookup step

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

| # | Field | LookupField |
|---|----------|---------------|
| 1 | kode_... | kode_propinsi |

Specify the fields to retrieve :

| # | Field | New name | Default | Type |
|---|---------------|----------|---------|--------|
| 1 | nama_propinsi | | | String |

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

Gambar 3.51 Join cabang kota prop

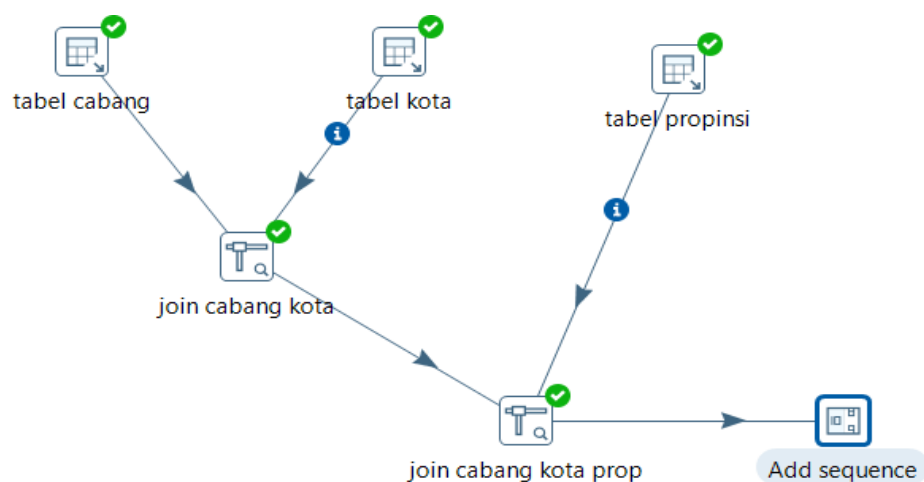
Examine preview data

Rows of step: join cabang kota prop (500 rows)

| # | kode_cabang | nama_cabang | kode_kota | nama_kota | kode_propinsi | nama_propinsi |
|----|-------------|-------------------------------------|-----------|----------------|---------------|--------------------------|
| 1 | CABANG-001 | PHI Mini Market - Lhokseumawe 01 | KOTA-003 | Lhokseumawe | P33 | Nanggroe Aceh Darussalam |
| 2 | CABANG-002 | PHI Mini Market - Bau-Bau 01 | KOTA-083 | Bau-Bau | P25 | Sulawesi Tenggara |
| 3 | CABANG-003 | PHI Mini Market - Bogor 01 | KOTA-039 | Bogor | P08 | Jawa Barat |
| 4 | CABANG-004 | PHI Mini Market - Medan 01 | KOTA-007 | Medan | P30 | Sumatera Utara |
| 5 | CABANG-005 | PHI Mini Market - Bogor 02 | KOTA-039 | Bogor | P08 | Jawa Barat |
| 6 | CABANG-006 | PHI Mini Market - Sukabumi 01 | KOTA-043 | Sukabumi | P08 | Jawa Barat |
| 7 | CABANG-007 | PHI Mini Market - Tegal 01 | KOTA-055 | Tegal | P09 | Jawa Tengah |
| 8 | CABANG-008 | PHI Mini Market - Jakarta Timur 01 | KOTA-048 | Jakarta Timur | P32 | DKI Jakarta |
| 9 | CABANG-009 | PHI Mini Market - Pasuruan 01 | KOTA-062 | Pasuruan | P10 | Jawa Timur |
| 10 | CABANG-010 | PHI Mini Market - Langsa 01 | KOTA-002 | Langsa | P33 | Nanggroe Aceh Darussalam |
| 11 | CABANG-011 | PHI Mini Market - Tarakan 01 | KOTA-078 | Tarakan | P13 | Kalimantan Timur |
| 12 | CABANG-012 | PHI Mini Market - Tebing Tinggi 01 | KOTA-012 | Tebing Tinggi | P30 | Sumatera Utara |
| 13 | CABANG-013 | PHI Mini Market - Bekasi 01 | KOTA-038 | Bekasi | P08 | Jawa Barat |
| 14 | CABANG-014 | PHI Mini Market - Batu 01 | KOTA-056 | Batu | P10 | Jawa Timur |
| 15 | CABANG-015 | PHI Mini Market - Banjarmasin 01 | KOTA-073 | Banjarmasin | P14 | Kalimantan Selatan |
| 16 | CABANG-016 | PHI Mini Market - Padang Panjang 01 | KOTA-019 | Padang Panjang | P28 | Sumatera Barat |
| 17 | CABANG-017 | PHI Mini Market - Balikpapan 01 | KOTA-075 | Balikpapan | P13 | Kalimantan Timur |
| 18 | CABANG-018 | PHI Mini Market - Sukabumi 02 | KOTA-043 | Sukabumi | P08 | Jawa Barat |
| 19 | CABANG-019 | PHI Mini Market - Serang 01 | KOTA-035 | Serang | P03 | Banten |
| 20 | CABANG-020 | PHI Mini Market - Bontang 01 | KOTA-076 | Bontang | P13 | Kalimantan Timur |
| 21 | CABANG-021 | PHI Mini Market - Pasuruan 02 | KOTA-062 | Pasuruan | P10 | Jawa Timur |
| 22 | CABANG-022 | PHI Mini Market - Padang 01 | KOTA-018 | Padang | P28 | Sumatera Barat |
| 23 | CABANG-023 | PHI Mini Market - Lubuklinggau 01 | KOTA-024 | Lubuklinggau | P29 | Sumatera Selatan |
| 24 | CABANG-024 | PHI Mini Market - Madiun 01 | KOTA-059 | Madiun | P10 | Jawa Timur |
| 25 | CABANG-025 | PHI Mini Market - Kupang 01 | KOTA-069 | Kupang | P21 | Nusa Tenggara Timur |

Gambar 3.52 Preview

- Membuat kolom dengan nama sk_cabang



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

Gambar 3.53 Sk_cabang

Examine preview data

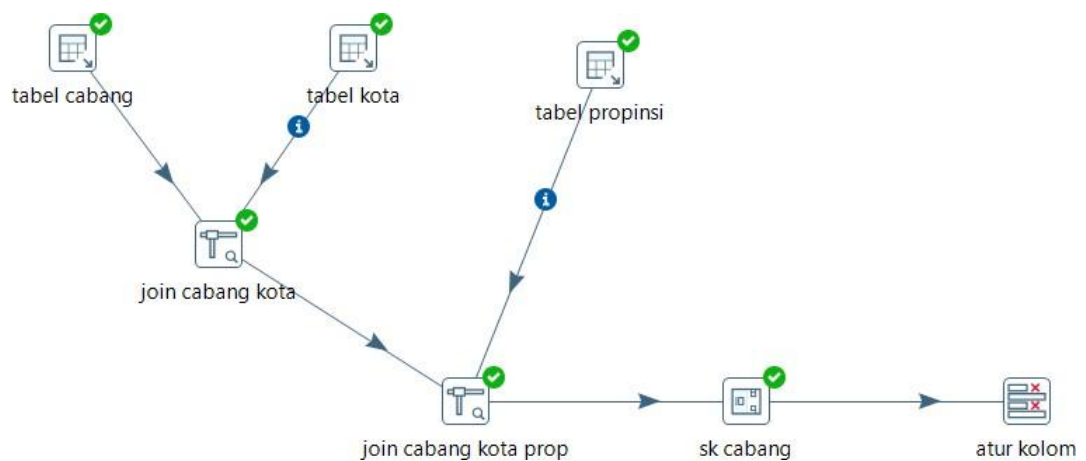
Rows of step: sk cabang (500 rows)

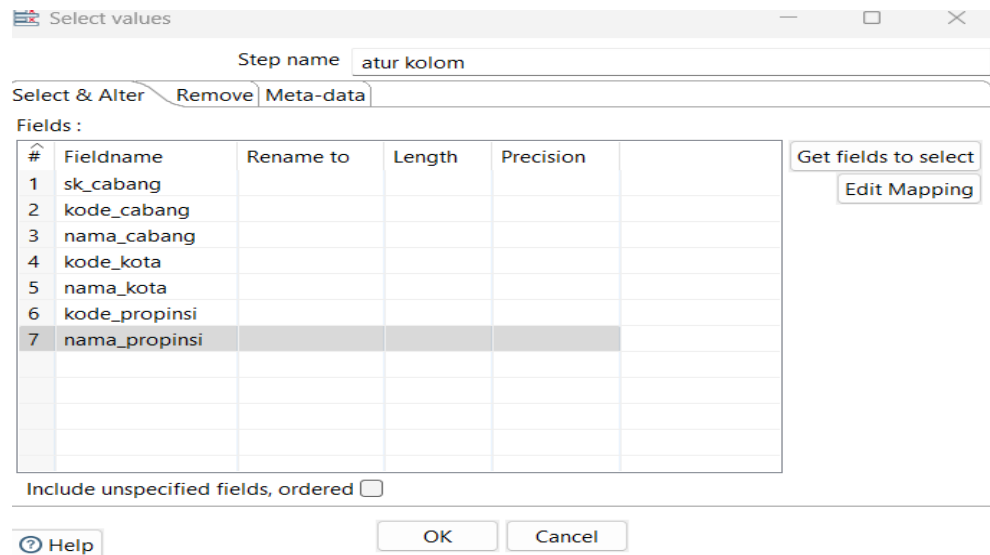
| # | kode_cabang | nama_cabang | kode_kota | nama_kota | kode_propinsi | nama_propinsi | sk_cabang |
|----|-------------|-------------------------------------|-----------|----------------|---------------|--------------------------|-----------|
| 1 | CABANG-001 | PHI Mini Market - Lhokseumawe 01 | KOTA-003 | Lhokseumawe | P33 | Nanggroe Aceh Darussalam | 1 |
| 2 | CABANG-002 | PHI Mini Market - Bau-Bau 01 | KOTA-083 | Bau-Bau | P25 | Sulawesi Tenggara | 2 |
| 3 | CABANG-003 | PHI Mini Market - Bogor 01 | KOTA-039 | Bogor | P08 | Jawa Barat | 3 |
| 4 | CABANG-004 | PHI Mini Market - Medan 01 | KOTA-007 | Medan | P30 | Sumatera Utara | 4 |
| 5 | CABANG-005 | PHI Mini Market - Bogor 02 | KOTA-039 | Bogor | P08 | Jawa Barat | 5 |
| 6 | CABANG-006 | PHI Mini Market - Sukabumi 01 | KOTA-043 | Sukabumi | P08 | Jawa Barat | 6 |
| 7 | CABANG-007 | PHI Mini Market - Tegal 01 | KOTA-055 | Tegal | P09 | Jawa Tengah | 7 |
| 8 | CABANG-008 | PHI Mini Market - Jakarta Timur 01 | KOTA-048 | Jakarta Timur | P32 | DKI Jakarta | 8 |
| 9 | CABANG-009 | PHI Mini Market - Pasuruan 01 | KOTA-062 | Pasuruan | P10 | Jawa Timur | 9 |
| 10 | CABANG-010 | PHI Mini Market - Langsa 01 | KOTA-002 | Langsa | P33 | Nanggroe Aceh Darussalam | 10 |
| 11 | CABANG-011 | PHI Mini Market - Tarakan 01 | KOTA-078 | Tarakan | P13 | Kalimantan Timur | 11 |
| 12 | CABANG-012 | PHI Mini Market - Tebing Tinggi 01 | KOTA-012 | Tebing Tinggi | P30 | Sumatera Utara | 12 |
| 13 | CABANG-013 | PHI Mini Market - Bekasi 01 | KOTA-038 | Bekasi | P08 | Jawa Barat | 13 |
| 14 | CABANG-014 | PHI Mini Market - Batu 01 | KOTA-056 | Batu | P10 | Jawa Timur | 14 |
| 15 | CABANG-015 | PHI Mini Market - Banjarmasin 01 | KOTA-073 | Banjarmasin | P14 | Kalimantan Selatan | 15 |
| 16 | CABANG-016 | PHI Mini Market - Padang Panjang 01 | KOTA-019 | Padang Panjang | P28 | Sumatera Barat | 16 |
| 17 | CABANG-017 | PHI Mini Market - Balikpapan 01 | KOTA-075 | Balikpapan | P13 | Kalimantan Timur | 17 |
| 18 | CABANG-018 | PHI Mini Market - Sukabumi 02 | KOTA-043 | Sukabumi | P08 | Jawa Barat | 18 |
| 19 | CABANG-019 | PHI Mini Market - Serang 01 | KOTA-035 | Serang | P03 | Banten | 19 |
| 20 | CABANG-020 | PHI Mini Market - Bontang 01 | KOTA-076 | Bontang | P13 | Kalimantan Timur | 20 |
| 21 | CABANG-021 | PHI Mini Market - Pasuruan 02 | KOTA-062 | Pasuruan | P10 | Jawa Timur | 21 |
| 22 | CABANG-022 | PHI Mini Market - Padang 01 | KOTA-018 | Padang | P28 | Sumatera Barat | 22 |
| 23 | CABANG-023 | PHI Mini Market - Lubuklinggau 01 | KOTA-024 | Lubuklinggau | P29 | Sumatera Selatan | 23 |
| 24 | CABANG-024 | PHI Mini Market - Madiun 01 | KOTA-059 | Madiun | P10 | Jawa Timur | 24 |
| 25 | CABANG-025 | PHI Mini Market - Kupang 01 | KOTA-069 | Kupang | P21 | Nusa Tenggara Timur | 25 |

Close

Gambar 3.54 Preview

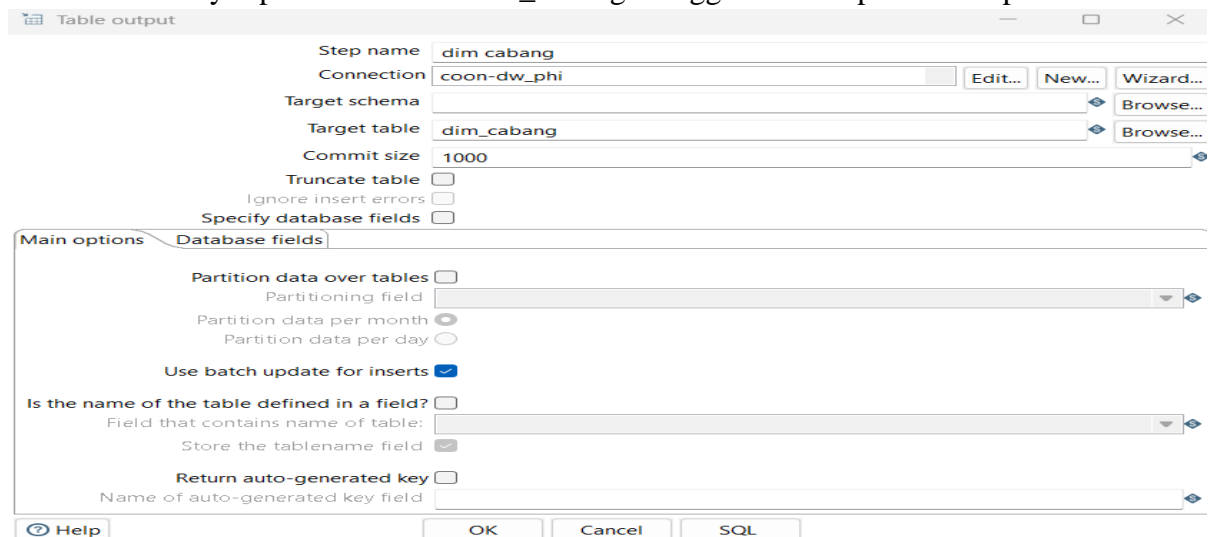
- Mengatur agar sk_cabang berada paling awal.





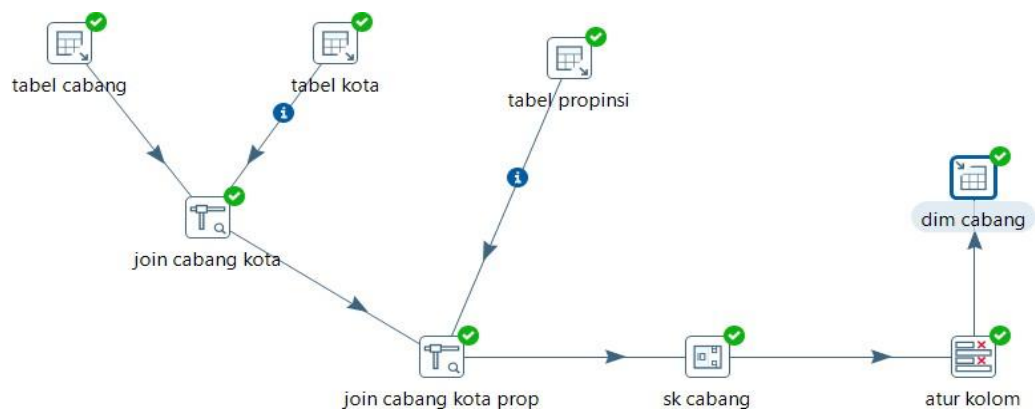
Gambar 3.55 Atur kolom

- Gambar 3. Menyimpan dalam tabel dim_cabang menggunakan step Table output.



Gambar 3.56 Tabel dim_cabang

- Menyimpan dan running.



Gambar 3.57 Running

Showing rows 0 - 24 (500 total, Query took 0.0006 seconds.)

```
SELECT * FROM `dim_cabang`
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> ☐ Show all Number of rows: 25 Filter rows: Search this table

Extra options

| sk_cabang | kode_cabang | nama_cabang | kode_kota | nama_kota | kode_propinsi | nama_propinsi |
|-----------|-------------|-------------------------------------|-----------|----------------|---------------|--------------------------|
| 1 | CABANG-001 | PHI Mini Market - Lhokseumawe 01 | KOTA-003 | Lhokseumawe | P33 | Nanggroe Aceh Darussalam |
| 2 | CABANG-002 | PHI Mini Market - Bau-Bau 01 | KOTA-083 | Bau-Bau | P25 | Sulawesi Tenggara |
| 3 | CABANG-003 | PHI Mini Market - Bogor 01 | KOTA-039 | Bogor | P08 | Jawa Barat |
| 4 | CABANG-004 | PHI Mini Market - Medan 01 | KOTA-007 | Medan | P30 | Sumatera Utara |
| 5 | CABANG-005 | PHI Mini Market - Bogor 02 | KOTA-039 | Bogor | P08 | Jawa Barat |
| 6 | CABANG-006 | PHI Mini Market - Sukabumi 01 | KOTA-043 | Sukabumi | P08 | Jawa Barat |
| 7 | CABANG-007 | PHI Mini Market - Tegal 01 | KOTA-055 | Tegal | P09 | Jawa Tengah |
| 8 | CABANG-008 | PHI Mini Market - Jakarta Timur 01 | KOTA-048 | Jakarta Timur | P32 | DKI Jakarta |
| 9 | CABANG-009 | PHI Mini Market - Pasuruan 01 | KOTA-062 | Pasuruan | P10 | Jawa Timur |
| 10 | CABANG-010 | PHI Mini Market - Langsa 01 | KOTA-002 | Langsa | P33 | Nanggroe Aceh Darussalam |
| 11 | CABANG-011 | PHI Mini Market - Tarakan 01 | KOTA-078 | Tarakan | P13 | Kalimantan Timur |
| 12 | CABANG-012 | PHI Mini Market - Tebing Tinggi 01 | KOTA-012 | Tebing Tinggi | P30 | Sumatera Utara |
| 13 | CABANG-013 | PHI Mini Market - Bekasi 01 | KOTA-038 | Bekasi | P08 | Jawa Barat |
| 14 | CABANG-014 | PHI Mini Market - Batu 01 | KOTA-056 | Batu | P10 | Jawa Timur |
| 15 | CABANG-015 | PHI Mini Market - Banjarmasin 01 | KOTA-073 | Banjarmasin | P14 | Kalimantan Selatan |
| 16 | CABANG-016 | PHI Mini Market - Padang Panjang 01 | KOTA-019 | Padang Panjang | P28 | Sumatera Barat |
| 17 | CABANG-017 | PHI Mini Market - Balikpapan 01 | KOTA-075 | Balikpapan | P13 | Kalimantan Timur |
| 18 | CABANG-018 | PHI Mini Market - Sukabumi 02 | KOTA-043 | Sukabumi | P08 | Jawa Barat |

Console

Gambar 3.58 Tampilan pada localhost