

LAPORAN HASIL JOBSHEET 4 DATA WAREHOUSE



DISUSUN OLEH:

DIAJENG SEKAR ARUM

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PROGRAM STUDI D-IV SISTEM INFORMASI BISNIS

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2024

JOBSHEET 4

Studi Kasus

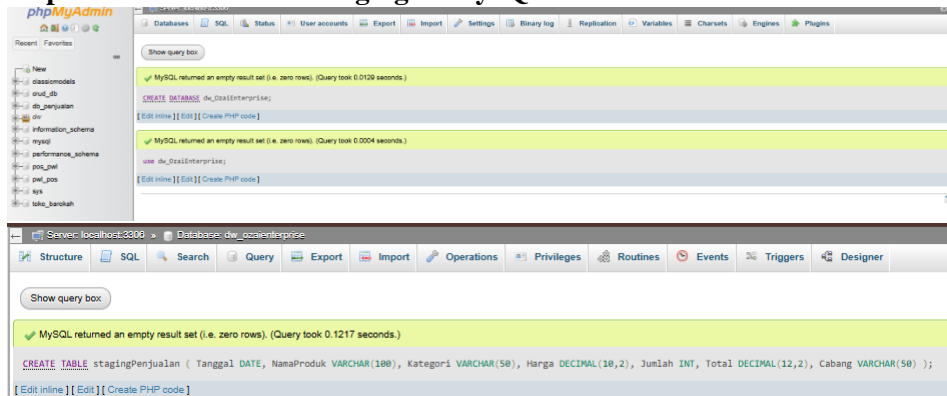
Pak Ozai merupakan staff di PT Indomarko Prisma tama merupakan perusahaan retail yang memiliki usaha indomarti, superindi dan indigrosir. Pak ozai mempelajari proses bisnis dari perusahaan tersebut dan mencoba untuk membangun perusahaan sendiri dengan nama PT Ozai Enterprise dan membangun 3 cabang. Untuk dapat bersaing, pak ozai perlu melakukan analisa dari penjualan di ketiga cabang tersebut. 3 cabang tersebut mencatat penjualannya pada satu file excel. Berikut ketiga file tersebut: Toko Azura :

<https://github.com/dik4rizky/datasources/blob/main/tokoazura.xls>

Toko Zuko : <https://github.com/dik4rizky/datasources/blob/main/tokozuko.xls>

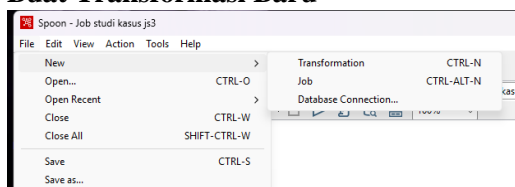
Toko Iroh : <https://github.com/dik4rizky/datasources/blob/main/tokoiroh.xls>

1. Siapkan Struktur Tabel Staging di MySQL



2. Langkah di PDI Spoon (ETL)

a. Buat Transformasi Baru



b. Import Excel (3x)



Microsoft Excel input



Microsoft Excel input 2



Microsoft Excel input 3

- Tokoazura.xls

- Tokoazuko.xls

- Tokoiroh.xls

c. Konfigurasi masing-masing

- File: pilih file lokal dari GitHub
- Sheet: pilih sesuai nama sheet
- Mapping kolom: pastikan mapping sesuai dengan urutan kolom (Tanggal, NamaProduk, Kategori, Harga, Jumlah, Total).
- Tambahkan kolom baru Cabang menggunakan step **Add constants** atau **Add a column with constant value**.
 - Azura: Cabang = "Azura"

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	Cabang	String							Azura	N

- Zuko: Cabang = "Zuko"

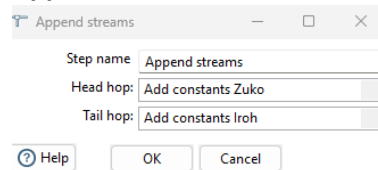
#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	Cabang	String							Zuko	N

- Iroh: Cabang = "Iroh"

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Value	Set empty string?
1	Cabang	String							Iroh	N

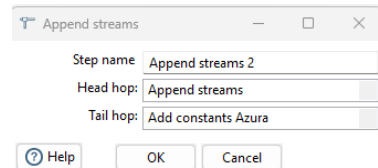
d. Union Semua Data

- **Append stream 1**



Append streams dialog box. Step name: Append streams. Head hop: Add constants Zuko. Tail hop: Add constants Iroh. Buttons: Help, OK, Cancel.

- **Append stream 2**



Append streams dialog box. Step name: Append streams 2. Head hop: Append streams. Tail hop: Add constants Azura. Buttons: Help, OK, Cancel.

e. Insert ke Database

- Koneksi: pilih conn_dw_destination (koneksi ke database).
- Table: stagingPenjualan
- Mapping: pastikan field dari hasil merge sesuai dengan field tabel

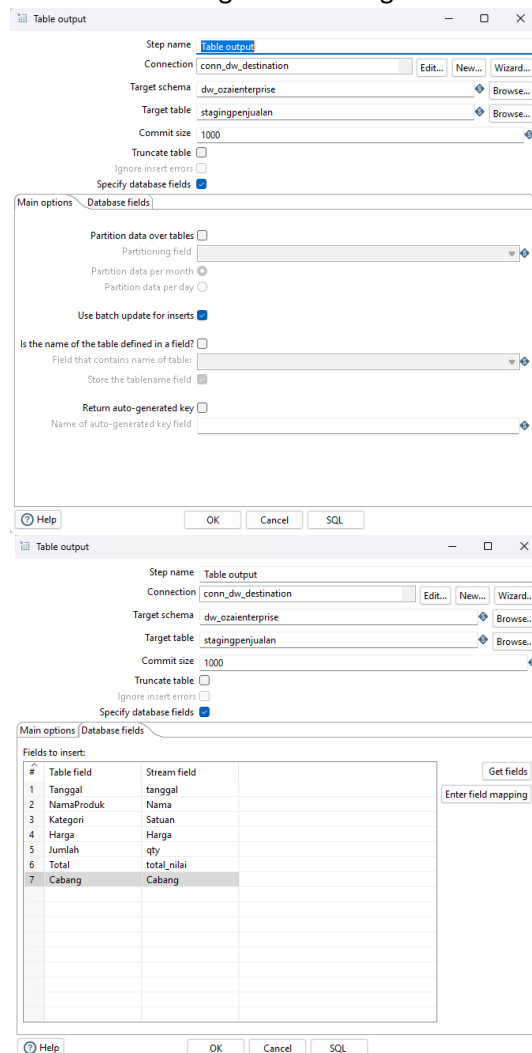
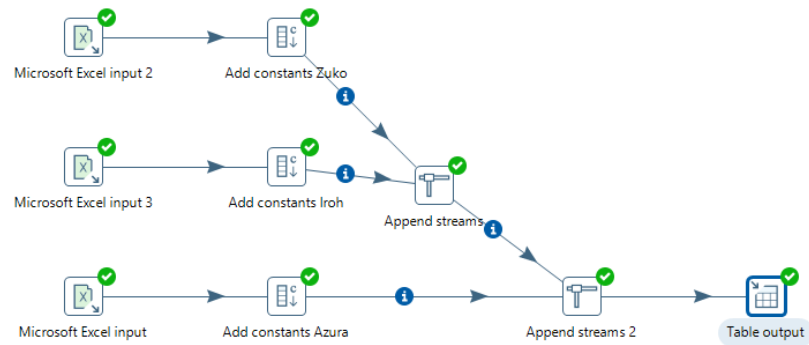


Table output dialog box. Step name: Table output. Connection: conn_dw_destination. Target schema: dw_ozaienterprise. Target table: stagingpenjualan. Commit size: 1000. Truncate table: ☐. Ignore insert errors: ☐. Specify database fields: ☒. Main options / Database fields: Partition data over tables: ☐. 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: . Fields to insert:

#	Table field	Stream field
1	Tanggal	tanggal
2	NamaProduk	Nama
3	Kategori	Satuan
4	Harga	Harga
5	Jumlah	qty
6	Total	total_nilai
7	Cabang	Cabang

Buttons: Help, OK, Cancel, SQL. Get fields, Enter field mapping.

- Hasil



Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

2025/04/30 20:54:40 - Spoon - Transformation opened.
 2025/04/30 20:54:40 - Spoon - Launching transformation [jb4]...
 2025/04/30 20:54:40 - Spoon - Started the transformation execution.
 2025/04/30 20:54:40 - jb4 - Dispatching started for transformation [jb4]
 2025/04/30 20:54:41 - Table output.0 - Connected to database [conn_dw_destination] (commit=1000)
 2025/04/30 20:54:41 - Microsoft Excel input 2.0 - Finished processing (I=1078, O=0, R=0, W=1078, U=0, E=0)
 2025/04/30 20:54:41 - Add constants Zuko.0 - Finished processing (I=0, O=0, R=1078, W=1078, U=0, E=0)
 2025/04/30 20:54:42 - Microsoft Excel input.0 - Finished processing (I=3862, O=0, R=0, W=3862, U=0, E=0)
 2025/04/30 20:54:42 - Add constants Azura.0 - Finished processing (I=0, O=0, R=3862, W=3862, U=0, E=0)
 2025/04/30 20:54:42 - Microsoft Excel input 3.0 - Finished processing (I=13069, O=0, R=0, W=13069, U=0, E=0)
 2025/04/30 20:54:42 - Add constants Iroh.0 - Finished processing (I=0, O=0, R=13069, W=13069, U=0, E=0)
 2025/04/30 20:54:42 - Append streams.0 - Finished processing (I=0, O=0, R=14147, W=14147, U=0, E=0)
 2025/04/30 20:54:46 - Append streams 2.0 - Finished processing (I=0, O=0, R=18009, W=18009, U=0, E=0)
 2025/04/30 20:54:50 - Table output.0 - Finished processing (I=0, O=0, R=18009, W=18009, U=0, E=0)
 2025/04/30 20:54:50 - Spoon - The transformation has finished!!

- Hasil pada preview data

Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

First rows Last rows Off

#	kode	nomor_penjualan	username	qty	total_nilai	tanggal	Nama	Harga	Satuan	Cabang
1	95.0	JC-111030136	RIDO	1.0	112500.0	2011/10/05 00:00:00.000	ABC KCP MANIS BTL 275ML	6715.0	PCS	Zuko
2	118.0	JC-150873135	RIZKY	1.0	31000.0	2015/06/29 00:00:00.000	SIDO MALIA KOPRI KNG 230	11875.0	KG	Zuko
3	187.0	JC-111030136	RIDO	1.0	112500.0	2011/10/05 00:00:00.000	MAX CREAMER 500 GR DUS	17480.0	DOS	Zuko
4	189.0	JC-111030150	RIDO	5.0	51800.0	2011/10/05 00:00:00.000	SEDAP MIE AYAM BAWANG	1022.5	DOS	Zuko
5	202.0	JC-150873121	RIZKY	1.0	45400.0	2015/06/29 00:00:00.000	SHINZU SAKURA 80	2763.75	PCS	Zuko
6	229.0	JC-150873295	RIZKY	1.0	276000.0	2015/06/29 00:00:00.000	LAGE SAFARI COKLAT 100	2000.0	PCS	Zuko
7	274.0	JC-091030403	RIDO	1.0	110450.0	2009/10/26 00:00:00.000	MITU BABY PENCIL BLUE	11237.5	PCS	Zuko
8	277.0	JC-091030416	RIDO	1.0	0.0	2009/10/26 00:00:00.000	TARO NET POTATO 16	950.0	DOS	Zuko
9	279.0	JC-091030416	RIDO	2.0	0.0	2009/10/26 00:00:00.000	ABC KC HIAU 200ML KHMS	2080.0	DOS	Zuko
10	373.0	JC-111030146	RIDO	6.0	482100.0	2011/10/05 00:00:00.000	NUVO FAMILY KNG 80GR	1393.75	PCS	Zuko
11	439.0	JC-111030151	RIDO	3.0	568400.0	2011/10/05 00:00:00.000	LEM H-LINE 24ML	35586.75	DOS	Zuko
12	454.0	JC-111030146	RIDO	20.0	482100.0	2011/10/05 00:00:00.000	SEDAP MIE AYAM BAWANG	1022.5	DOS	Zuko
13	457.0	JC-111030146	RIDO	3.0	482100.0	2011/10/05 00:00:00.000	SOKLIN PRO POWER 900	15625.0	DOS	Zuko
14	599.0	JC-111030150	RIDO	1.0	51800.0	2011/10/05 00:00:00.000	PRIMA SARDINES 425	9600.0	PCS	Zuko
15	676.0	JC-111030151	RIDO	3.0	568400.0	2011/10/05 00:00:00.000	NUVO FAMILY BIRU 80GR	1393.75	PCS	Zuko
16	711.0	JC-150873134	RIZKY	2.0	7200.0	2015/06/29 00:00:00.000	AQUA 1500 ML	2672.5	DOS	Zuko
17	734.0	JC-150873344	RIZKY	1.0	12100.0	2015/06/30 00:00:00.000	AQUA 1500 ML	2672.5	DOS	Zuko
18	764.0	JC-111030139	RIDO	1.0	130750.0	2011/10/05 00:00:00.000	CERE HLA CLASSIC 90	3741.5	PACK	Zuko
19	803.0	JC-091030415	RIDO	1.0	62650.0	2009/10/26 00:00:00.000	KACANG OVEN UNWENAK 200	4791.25	PCS	Zuko
20	903.0	JC-091030415	RIDO	2.0	62650.0	2009/10/26 00:00:00.000	DOLPIN GARAM 500	2300.0	DOS	Zuko
21	991.0	JC-091030403	RIDO	1.0	110450.0	2009/10/26 00:00:00.000	ABC SARDINES CHILI 425	8207.5	PCS	Zuko
22	1161.0	JC-111030154	RIZKY	1.0	70700.0	2011/10/05 00:00:00.000	KCPI 16 PRO POWER 900	14601.0	DOS	Zuko

- Hasil pada localhost saat search

Showing rows 0 - 24 (3862 total, Query took 0.0590 seconds.)

SELECT * FROM 'stagingpenjualan' WHERE cabang = 'azura';

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

1 > >> Number of rows: 25 Filter rows: Search this table

Extra options

Tanggal	NamaProduk	Kategori	Harga	Jumlah	Total	Cabang
2008-02-18	INDOCAFE CAPUCINO KTK 5X25G	PCS	6916.25	2	353700.00	Azura
2008-02-18	ALKALINE LR-03 (ISI 2)	LSN	7936.25	1	8250.00	Azura
2008-01-02	NUTRIJELL STRAW 15 GR	BOX	2987.50	1	33000.00	Azura
2008-01-02	NUTRIJELL ANGOUR 15 GR	BOX	2987.50	1	33000.00	Azura
2008-01-02	NUTRIJELL PLAIN 15 GR	BOX	2987.50	1	33000.00	Azura
2008-01-02	REJOICE FAMILY C 175	PCS	10890.00	1	187500.00	Azura
2008-01-02	WINGS BIRU 500 K 209G	DOS	2250.00	2	46050.00	Azura
2008-01-02	SOKLIN MATIC FRONT LOAD 1KG	DOS	20000.00	1	26650.00	Azura
2008-01-07	SOKLIN HIGINIS 900	DOS	15625.00	1	20250.00	Azura
2008-01-17	AJINOMOTO 50GR	PCS	1418.75	2	56500.00	Azura
2008-02-18	ABC SBL ASLI 135 ML	PCS	3537.50	1	154000.00	Azura
2008-02-18	KACANG SHANGHAI DK 450	PCS	12250.00	1	353700.00	Azura
2008-01-02	BATERAI ABC KECIL R-8	LSN	1450.00	4	18800.00	Azura
2008-01-17	ABC KCP ASIN 133 ML	PCS	2250.00	1	91325.00	Azura
2008-01-02	CARRERA POLES M 20GX85	PCS	2800.00	2	70000.00	Azura

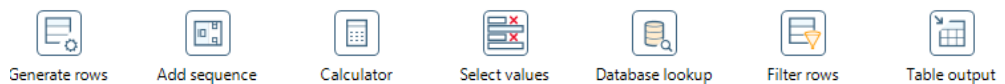
A. DIMENSI WAKTU

1. Buatlah table untuk menyimpan data master waktu atau yang disebut dengan tabel dimensi. Beri nama table tersebut dengan nama dimDate.

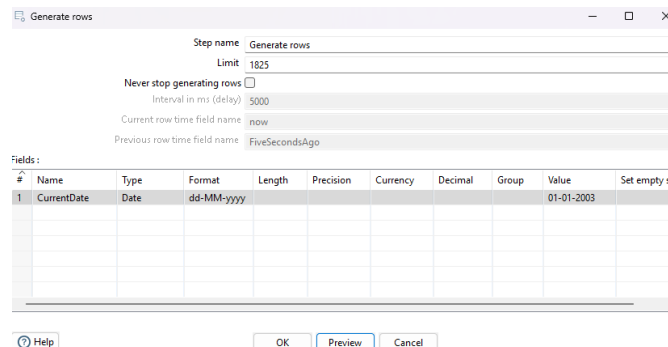
```
1 CREATE TABLE dimDate (  
2   id_dimDate INT NOT NULL AUTO_INCREMENT PRIMARY KEY,  
3   date DATE,  
4   year INT,  
5   month INT,  
6   day INT  
7 );
```

2. Pada tahapan selanjutnya, untuk membuat tabel dimensi dimDate, maka diperlukan generate data tanggal. Data tanggal yang disiapkan pada tabel dimDate menyesuaikan dengan proses bisnis yang berjalan.

- Buka PDI Spoon. Buat Transformation baru -> File - New - Transformation.
- Drag and Drop beberapa objek yaitu:



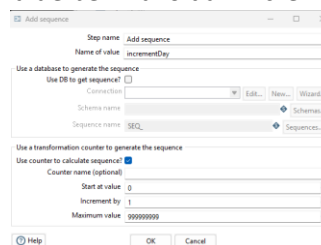
- Konfigurasi pada Generate Rows adalah merubah limit menjadi 1825 dimana memiliki arti bahwa data yang akan dibuat sebanyak 7300 data. 7300 merupakan jumlah hari dalam 20 tahun (365 hari x 20 tahun).
- Membuat fields baru bernama CurrentDate dengan type data Date dan format dd-MM-yyyy serta value awal 01-01-2005



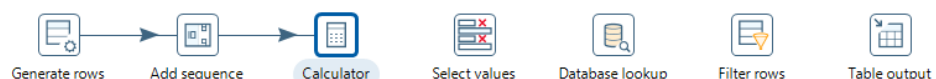
- Hubungkan output dari Generate Rows menuju Add Sequence.



- Konfigurasi pada Add Sequences adalah merubah Name of value menjadi incrementDay dengan start value bernilai 0 dan increment by bernilai 1



- Hubungkan output dari add sequences menuju calculator.



- Konfigurasi pada calculator dengan membuat fields baru sebagai berikut

#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask	Decimal symbol	Grouping symbol
1	streamDate	Date A + 8 Days	CurrentDate	incrementDay		None			N			
2	streamYear	Year of date A	streamDate			None			N			
3	streamMonth	Month of date A	streamDate			None			N			
4	streamDay	Day of month of date A	streamDate			None			N			

- Hubungkan output dari calculator menuju Select values



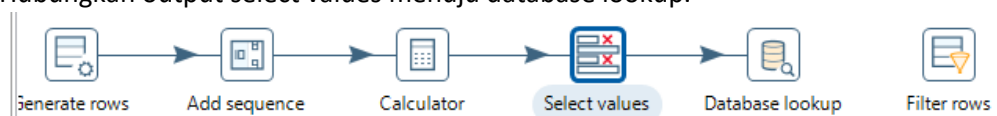
- Konfigurasi pada select values adalah dengan menekan tombol Get fields to select pada tab Select & Alter. Secara otomatis semua fields dari data input akan muncul.

#	Fieldname	Rename to	Length	Precision
1	CurrentDate			
2	incrementDay			
3	streamDate			
4	streamYear			
5	streamMonth			
6	streamDay			

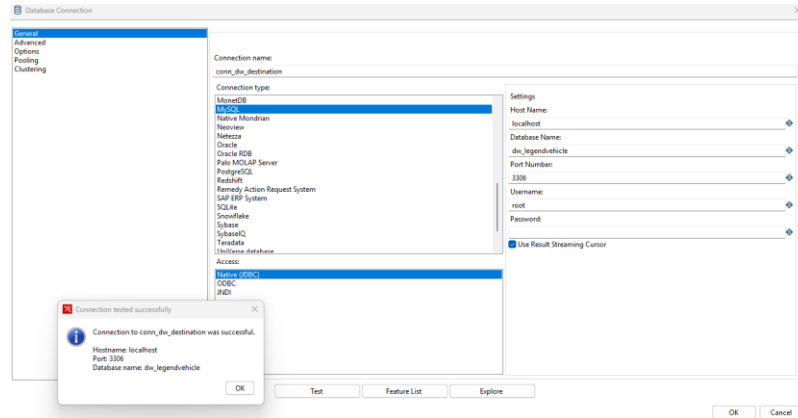
- Dikarenakan tidak semua fields digunakan, maka pada tab Remove diisikan fields CurrentDate dan incrementDay dikarenakan kedua fields tersebut tidak digunakan

#	Fieldname
1	CurrentDate
2	incrementDay

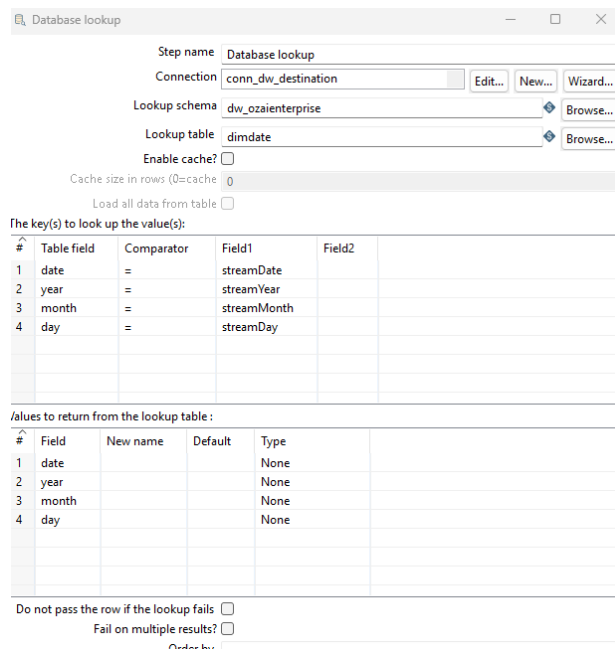
- Hubungkan output select values menuju database lookup.



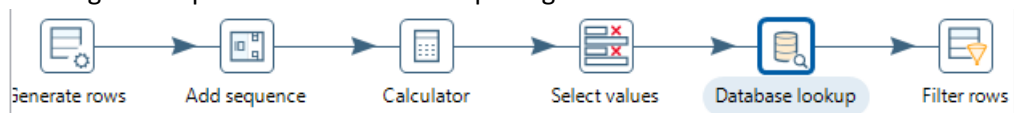
- Sebelum melakukan konfigurasi pada database lookup, buatlah koneksi terlebih dahulu pada database melalui File - New - Database Connection. Gunakan Connection type MySQL dengan host name , database name, port number, username dan password sesuai konfigurasi MySQL pada device masing-masing. beri nama connection name tersebut dengan nama conn_dw_destination.



- Konfigurasi pada database lookup adalah dengan memberikan connection dengan koneksi yang sudah dibuat pada step sebelumnya. dengan schema nama database yang digunakan dan tabel dimdate yang telah dibuat pada langkah pertama.
- Field yang akan dicek untuk melihat kesamaan isi datanya agar tidak kembar adalah
- Field yang akan di retriive adalah field yang ada pada table dimDate yaitu date, year, month, dan day.



- Hubungkan output dari database lookup dengan filter rows



- Filter rows

Step name: Filter rows

Send 'true' data to step:

Send 'false' data to step:

The condition:

☐ To edit a subcondition, simply click on it

date IS NULL

AND

(

AND

(

AND

month IS NULL

day IS NULL

)

)

OK Cancel

Help

-
- ```

graph LR
 A[Calculator] --> B[Select values]
 B --> C[Database lookup]
 C --> D[Filter rows]
 D --> E[Table output]
 style D fill:#4a86e8,color:#fff

```

- [illegible]

- cek isi table dimdate pada database. Jika sukses maka pada table dimdate akan terisi 1825 data

The screenshot displays a data integration workflow and its execution results. The workflow consists of five steps: Calculator, Select values, Database lookup, Filter rows, and Table output. The execution results show a log of events, including the transformation being opened, launched, and completed. The log also shows the number of rows processed for each step, with the final count being 1825 rows.

**Execution Results Log:**

- 2025/05/01 19:41:58 - Spoon - Transformation opened.
- 2025/05/01 19:41:58 - Spoon - Launching transformation [jb 4 dimdate]...
- 2025/05/01 19:41:58 - Spoon - Started the transformation execution.
- 2025/05/01 19:41:58 - jb 4 dimdate - Dispatching started for transformation [jb 4 dimdate]
- 2025/05/01 19:41:58 - Table output.0 - Connected to database [conn\_dw\_destination] (commit=1000)
- 2025/05/01 19:41:59 - Generate rows.0 - Finished processing (I=0, O=0, R=0, W=1825, U=0, E=0)
- 2025/05/01 19:41:59 - Add sequence.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:41:59 - Calculator.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:41:59 - Select values.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:42:00 - Database lookup.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:42:00 - Filter rows.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:42:01 - Table output.0 - Finished processing (I=0, O=0, R=1825, W=1825, U=0, E=0)
- 2025/05/01 19:42:01 - Spoon - The transformation has finished!!

**Execution Results Table:**

| #  | streamDate              | streamYear | streamMonth | streamDay | date   | year   | month  | day    |
|----|-------------------------|------------|-------------|-----------|--------|--------|--------|--------|
| 1  | 2003/01/01 00:00:00.000 | 2003       | 1           | 1         | <null> | <null> | <null> | <null> |
| 2  | 2003/01/02 00:00:00.000 | 2003       | 1           | 2         | <null> | <null> | <null> | <null> |
| 3  | 2003/01/03 00:00:00.000 | 2003       | 1           | 3         | <null> | <null> | <null> | <null> |
| 4  | 2003/01/04 00:00:00.000 | 2003       | 1           | 4         | <null> | <null> | <null> | <null> |
| 5  | 2003/01/05 00:00:00.000 | 2003       | 1           | 5         | <null> | <null> | <null> | <null> |
| 6  | 2003/01/06 00:00:00.000 | 2003       | 1           | 6         | <null> | <null> | <null> | <null> |
| 7  | 2003/01/07 00:00:00.000 | 2003       | 1           | 7         | <null> | <null> | <null> | <null> |
| 8  | 2003/01/08 00:00:00.000 | 2003       | 1           | 8         | <null> | <null> | <null> | <null> |
| 9  | 2003/01/09 00:00:00.000 | 2003       | 1           | 9         | <null> | <null> | <null> | <null> |
| 10 | 2003/01/10 00:00:00.000 | 2003       | 1           | 10        | <null> | <null> | <null> | <null> |
| 11 | 2003/01/11 00:00:00.000 | 2003       | 1           | 11        | <null> | <null> | <null> | <null> |
| 12 | 2003/01/12 00:00:00.000 | 2003       | 1           | 12        | <null> | <null> | <null> | <null> |
| 13 | 2003/01/13 00:00:00.000 | 2003       | 1           | 13        | <null> | <null> | <null> | <null> |
| 14 | 2003/01/14 00:00:00.000 | 2003       | 1           | 14        | <null> | <null> | <null> | <null> |

**Database Query Results:**

Showing rows 0 - 24 (1825 total, Query took 0.0007 seconds.)

SELECT \* FROM `dimdate`

Number of rows: 25

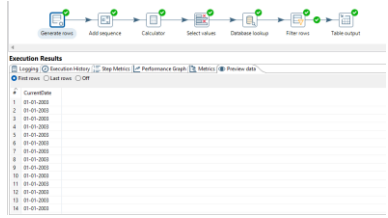
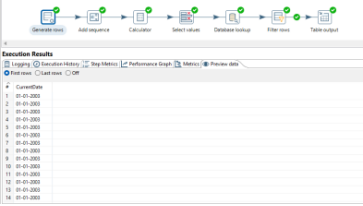
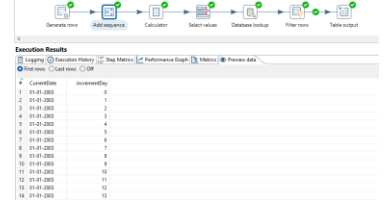
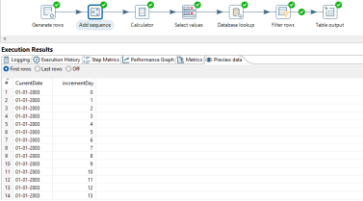
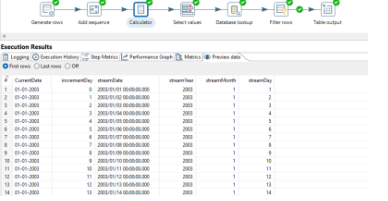
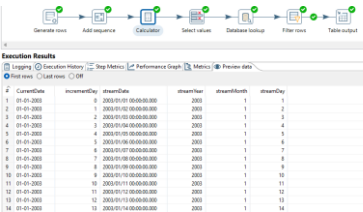
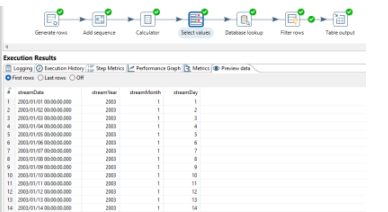
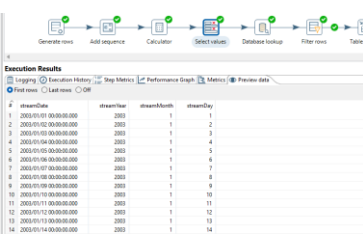
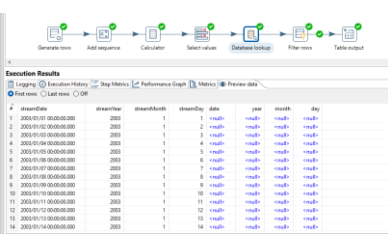
Filter rows: Search this table

Extra options

|                          | id_dimDate | date       | year | month | day |
|--------------------------|------------|------------|------|-------|-----|
| <input type="checkbox"/> | 1          | 2003-01-01 | 2003 | 1     | 1   |
| <input type="checkbox"/> | 2          | 2003-01-02 | 2003 | 1     | 2   |
| <input type="checkbox"/> | 3          | 2003-01-03 | 2003 | 1     | 3   |
| <input type="checkbox"/> | 4          | 2003-01-04 | 2003 | 1     | 4   |
| <input type="checkbox"/> | 5          | 2003-01-05 | 2003 | 1     | 5   |
| <input type="checkbox"/> | 6          | 2003-01-06 | 2003 | 1     | 6   |
| <input type="checkbox"/> | 7          | 2003-01-07 | 2003 | 1     | 7   |
| <input type="checkbox"/> | 8          | 2003-01-08 | 2003 | 1     | 8   |
| <input type="checkbox"/> | 9          | 2003-01-09 | 2003 | 1     | 9   |
| <input type="checkbox"/> | 10         | 2003-01-10 | 2003 | 1     | 10  |
| <input type="checkbox"/> | 11         | 2003-01-11 | 2003 | 1     | 11  |
| <input type="checkbox"/> | 12         | 2003-01-12 | 2003 | 1     | 12  |
| <input type="checkbox"/> | 13         | 2003-01-13 | 2003 | 1     | 13  |
| <input type="checkbox"/> | 14         | 2003-01-14 | 2003 | 1     | 14  |

## TUGAS 1

Buka preview tab pada execution result area di setiap proses object. amati input dan output data yang ada. bandingkan di setiap prosesnya. jelaskan perbedaan disetiap prosesnya.

| Proses Objek    | SS Data Input (Preview Sebelum Proses)                                              | SS Data Output (Preview Setelah Proses)                                              | Keterangan                                                                       |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Generate Rows   | Tidak ada (kosong)                                                                  |    | Digunakan untuk membuat data dummy/sintetis tanpa sumber eksternal               |
| Add Sequences   |    |    | Menambahkan kolom auto increment (misalnya ID)                                   |
| Calculator      |  |  | Melakukan kalkulasi menggunakan fungsi matematika atau logika                    |
| Select Values   |  |  | Memilih kolom yang akan dipertahankan atau diubah nama                           |
| Database Lookup |  |  | Melakukan pencarian data tambahan ke database eksternal berdasarkan key tertentu |

Filter Rows

Execution Results

| #  | streamDate              | streamYear | streamMonth | streamDay | date       | year | month | day |
|----|-------------------------|------------|-------------|-----------|------------|------|-------|-----|
| 1  | 2003-01-01 00:00:00.000 | 2003       | 1           | 1         | 2003-01-01 | 2003 | 1     | 1   |
| 2  | 2003-01-02 00:00:00.000 | 2003       | 1           | 2         | 2003-01-02 | 2003 | 1     | 2   |
| 3  | 2003-01-03 00:00:00.000 | 2003       | 1           | 3         | 2003-01-03 | 2003 | 1     | 3   |
| 4  | 2003-01-04 00:00:00.000 | 2003       | 1           | 4         | 2003-01-04 | 2003 | 1     | 4   |
| 5  | 2003-01-05 00:00:00.000 | 2003       | 1           | 5         | 2003-01-05 | 2003 | 1     | 5   |
| 6  | 2003-01-06 00:00:00.000 | 2003       | 1           | 6         | 2003-01-06 | 2003 | 1     | 6   |
| 7  | 2003-01-07 00:00:00.000 | 2003       | 1           | 7         | 2003-01-07 | 2003 | 1     | 7   |
| 8  | 2003-01-08 00:00:00.000 | 2003       | 1           | 8         | 2003-01-08 | 2003 | 1     | 8   |
| 9  | 2003-01-09 00:00:00.000 | 2003       | 1           | 9         | 2003-01-09 | 2003 | 1     | 9   |
| 10 | 2003-01-10 00:00:00.000 | 2003       | 1           | 10        | 2003-01-10 | 2003 | 1     | 10  |
| 11 | 2003-01-11 00:00:00.000 | 2003       | 1           | 11        | 2003-01-11 | 2003 | 1     | 11  |
| 12 | 2003-01-12 00:00:00.000 | 2003       | 1           | 12        | 2003-01-12 | 2003 | 1     | 12  |
| 13 | 2003-01-13 00:00:00.000 | 2003       | 1           | 13        | 2003-01-13 | 2003 | 1     | 13  |
| 14 | 2003-01-14 00:00:00.000 | 2003       | 1           | 14        | 2003-01-14 | 2003 | 1     | 14  |

Execution Results

| #  | streamDate              | streamYear | streamMonth | streamDay | date       | year | month | day |
|----|-------------------------|------------|-------------|-----------|------------|------|-------|-----|
| 1  | 2003-01-01 00:00:00.000 | 2003       | 1           | 1         | 2003-01-01 | 2003 | 1     | 1   |
| 2  | 2003-01-02 00:00:00.000 | 2003       | 1           | 2         | 2003-01-02 | 2003 | 1     | 2   |
| 3  | 2003-01-03 00:00:00.000 | 2003       | 1           | 3         | 2003-01-03 | 2003 | 1     | 3   |
| 4  | 2003-01-04 00:00:00.000 | 2003       | 1           | 4         | 2003-01-04 | 2003 | 1     | 4   |
| 5  | 2003-01-05 00:00:00.000 | 2003       | 1           | 5         | 2003-01-05 | 2003 | 1     | 5   |
| 6  | 2003-01-06 00:00:00.000 | 2003       | 1           | 6         | 2003-01-06 | 2003 | 1     | 6   |
| 7  | 2003-01-07 00:00:00.000 | 2003       | 1           | 7         | 2003-01-07 | 2003 | 1     | 7   |
| 8  | 2003-01-08 00:00:00.000 | 2003       | 1           | 8         | 2003-01-08 | 2003 | 1     | 8   |
| 9  | 2003-01-09 00:00:00.000 | 2003       | 1           | 9         | 2003-01-09 | 2003 | 1     | 9   |
| 10 | 2003-01-10 00:00:00.000 | 2003       | 1           | 10        | 2003-01-10 | 2003 | 1     | 10  |
| 11 | 2003-01-11 00:00:00.000 | 2003       | 1           | 11        | 2003-01-11 | 2003 | 1     | 11  |
| 12 | 2003-01-12 00:00:00.000 | 2003       | 1           | 12        | 2003-01-12 | 2003 | 1     | 12  |
| 13 | 2003-01-13 00:00:00.000 | 2003       | 1           | 13        | 2003-01-13 | 2003 | 1     | 13  |
| 14 | 2003-01-14 00:00:00.000 | 2003       | 1           | 14        | 2003-01-14 | 2003 | 1     | 14  |

Memisahkan data berdasarkan kondisi logika (IF)

Table Output

Execution Results

| #  | streamDate              | streamYear | streamMonth | streamDay | date       | year | month | day |
|----|-------------------------|------------|-------------|-----------|------------|------|-------|-----|
| 1  | 2003-01-01 00:00:00.000 | 2003       | 1           | 1         | 2003-01-01 | 2003 | 1     | 1   |
| 2  | 2003-01-02 00:00:00.000 | 2003       | 1           | 2         | 2003-01-02 | 2003 | 1     | 2   |
| 3  | 2003-01-03 00:00:00.000 | 2003       | 1           | 3         | 2003-01-03 | 2003 | 1     | 3   |
| 4  | 2003-01-04 00:00:00.000 | 2003       | 1           | 4         | 2003-01-04 | 2003 | 1     | 4   |
| 5  | 2003-01-05 00:00:00.000 | 2003       | 1           | 5         | 2003-01-05 | 2003 | 1     | 5   |
| 6  | 2003-01-06 00:00:00.000 | 2003       | 1           | 6         | 2003-01-06 | 2003 | 1     | 6   |
| 7  | 2003-01-07 00:00:00.000 | 2003       | 1           | 7         | 2003-01-07 | 2003 | 1     | 7   |
| 8  | 2003-01-08 00:00:00.000 | 2003       | 1           | 8         | 2003-01-08 | 2003 | 1     | 8   |
| 9  | 2003-01-09 00:00:00.000 | 2003       | 1           | 9         | 2003-01-09 | 2003 | 1     | 9   |
| 10 | 2003-01-10 00:00:00.000 | 2003       | 1           | 10        | 2003-01-10 | 2003 | 1     | 10  |
| 11 | 2003-01-11 00:00:00.000 | 2003       | 1           | 11        | 2003-01-11 | 2003 | 1     | 11  |
| 12 | 2003-01-12 00:00:00.000 | 2003       | 1           | 12        | 2003-01-12 | 2003 | 1     | 12  |
| 13 | 2003-01-13 00:00:00.000 | 2003       | 1           | 13        | 2003-01-13 | 2003 | 1     | 13  |
| 14 | 2003-01-14 00:00:00.000 | 2003       | 1           | 14        | 2003-01-14 | 2003 | 1     | 14  |

Execution Results

| #  | streamDate              | streamYear | streamMonth | streamDay | date       | year | month | day |
|----|-------------------------|------------|-------------|-----------|------------|------|-------|-----|
| 1  | 2003-01-01 00:00:00.000 | 2003       | 1           | 1         | 2003-01-01 | 2003 | 1     | 1   |
| 2  | 2003-01-02 00:00:00.000 | 2003       | 1           | 2         | 2003-01-02 | 2003 | 1     | 2   |
| 3  | 2003-01-03 00:00:00.000 | 2003       | 1           | 3         | 2003-01-03 | 2003 | 1     | 3   |
| 4  | 2003-01-04 00:00:00.000 | 2003       | 1           | 4         | 2003-01-04 | 2003 | 1     | 4   |
| 5  | 2003-01-05 00:00:00.000 | 2003       | 1           | 5         | 2003-01-05 | 2003 | 1     | 5   |
| 6  | 2003-01-06 00:00:00.000 | 2003       | 1           | 6         | 2003-01-06 | 2003 | 1     | 6   |
| 7  | 2003-01-07 00:00:00.000 | 2003       | 1           | 7         | 2003-01-07 | 2003 | 1     | 7   |
| 8  | 2003-01-08 00:00:00.000 | 2003       | 1           | 8         | 2003-01-08 | 2003 | 1     | 8   |
| 9  | 2003-01-09 00:00:00.000 | 2003       | 1           | 9         | 2003-01-09 | 2003 | 1     | 9   |
| 10 | 2003-01-10 00:00:00.000 | 2003       | 1           | 10        | 2003-01-10 | 2003 | 1     | 10  |
| 11 | 2003-01-11 00:00:00.000 | 2003       | 1           | 11        | 2003-01-11 | 2003 | 1     | 11  |
| 12 | 2003-01-12 00:00:00.000 | 2003       | 1           | 12        | 2003-01-12 | 2003 | 1     | 12  |
| 13 | 2003-01-13 00:00:00.000 | 2003       | 1           | 13        | 2003-01-13 | 2003 | 1     | 13  |
| 14 | 2003-01-14 00:00:00.000 | 2003       | 1           | 14        | 2003-01-14 | 2003 | 1     | 14  |

Menyimpan data ke dalam tabel di database, tidak menampilkan output di preview