

**LAPORAN PRAKTIKUM  
DATA WAREHOUSE**

**JOBSHEET 4  
MULTI RESOURCE**



**Oleh:**

**DHEVINA AGUSTINA**

**2341760065**

**SIB 2B**

**PROGRAM STUDI SISTEM INFORMASI BISNIS**

**JURUSAN TEKNOLOGI INFORMASI**

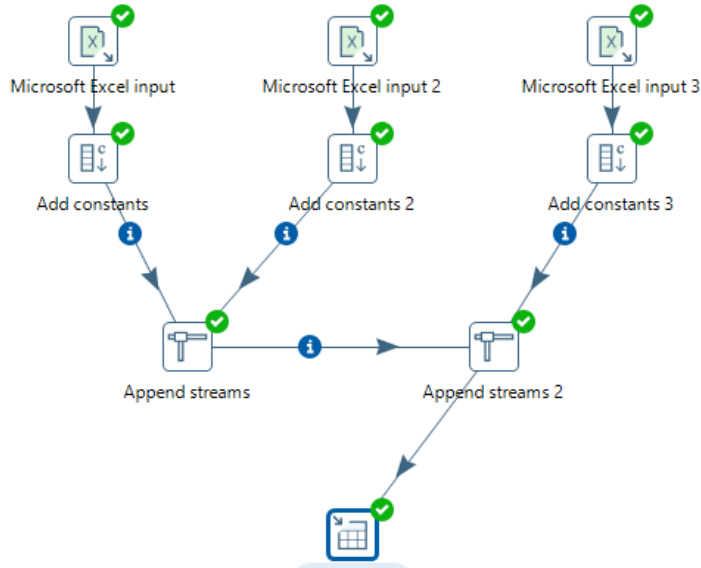
**POLITEKNIK NEGERI MALANG**

**2025/2026**

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0660 seconds.)

```
CREATE TABLE stagingPenjualan ( Tanggal DATE, NamaProduk VARCHAR(100), Kategori VARCHAR(50), Harga DECIMAL(10,2), Jumlah INT, Total DECIMAL(12,2), Cabang VARCHAR(50) );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]



## • Toko Azura

Examine preview data

Rows of step: Microsoft Excel input (1000 rows)

#	kode	nomor_penjualan	username	qty	total_nilai	tanggal	Nama	Harga	Satuan
1	23.0	JC-0802212343	WIWIK	2.0	353700.0	2008/02/18 00:00:00.000	INDOCAFE CAPUCINO KTK 5X25G	6916.25	PCS
2	27.0	JC-0802212353	WIWIK	1.0	8250.0	2008/02/18 00:00:00.000	ALKALINE LR-02 (ISI 2)	7936.25	LSN
3	69.0	JC-080120025	WIWIK	1.0	33000.0	2008/01/02 00:00:00.000	NUTRIELL STRAW 15 GR	2667.5	BOX
4	70.0	JC-080120025	WIWIK	1.0	33000.0	2008/01/02 00:00:00.000	NUTRIELL ANGGRU 15 GR	2667.5	BOX
5	71.0	JC-080120025	WIWIK	1.0	33000.0	2008/01/02 00:00:00.000	NUTRIELL PLAIN 15 GR	2667.5	BOX
6	72.0	JC-080120031	WIWIK	1.0	187500.0	2008/01/02 00:00:00.000	REJOICE FAMILY C 175	10890.0	PCS
7	74.0	JC-080120038	WIWIK	2.0	46050.0	2008/01/02 00:00:00.000	WINGS BIRU 500 K 209G	2250.0	DOS
8	113.0	JC-080120007	WIWIK	1.0	26650.0	2008/01/02 00:00:00.000	SOKLIN MATIC FRONT LOAD 1KG	20000.0	DOS
9	124.0	JC-080120408	WIWIK	1.0	20250.0	2008/01/07 00:00:00.000	SOKLIN HIGINIS 900	15625.0	DOS
10	127.0	JC-080121055	WIWIK	2.0	56500.0	2008/01/17 00:00:00.000	AJINOMOTO 50GR	1418.75	PCS
11	139.0	JC-080221232	WIWIK	1.0	154000.0	2008/02/18 00:00:00.000	ABC SBL ASLI 135 ML	3537.5	PCS
12	157.0	JC-080221243	WIWIK	1.0	353700.0	2008/02/18 00:00:00.000	KACANG SHANGHAI DK 450	12250.0	PCS
13	199.0	JC-080120012	WIWIK	4.0	18600.0	2008/01/02 00:00:00.000	BATERAI ABC KECIL R-6	1450.0	LSN
14	212.0	JC-080121058	WIWIK	1.0	91325.0	2008/01/17 00:00:00.000	ABC KCP ASIN 133 ML	2250.0	PCS
15	213.0	JC-080120015	WIWIK	2.0	70600.0	2008/01/02 00:00:00.000	CARRERA POLES M 20GX65	2800.0	PCS
16	218.0	JC-080121070	WIWIK	1.0	131150.0	2008/01/17 00:00:00.000	MAX CREAMER 500 GR DUS	17490.0	DOS
17	222.0	JC-080220645	WIWIK	1.0	15400.0	2008/02/11 00:00:00.000	NU GREEN TEA HONEY 300	3500.0	DOS
18	254.0	JC-080120015	WIWIK	2.0	70600.0	2008/01/02 00:00:00.000	ABC KC HIAU 200ML KHKS	2080.0	DOS
19	286.0	JC-080121070	WIWIK	1.0	131150.0	2008/01/17 00:00:00.000	REJOICE FAMILY C 175	10890.0	PCS
20	351.0	JC-080120015	WIWIK	1.0	70600.0	2008/01/02 00:00:00.000	PRONAS CORNED BEEF 198	10901.25	PCS
21	352.0	JC-080120026	WIWIK	1.0	119900.0	2008/01/02 00:00:00.000	REJOICE COMPLETE 180	13767.5	PCS
22	368.0	JC-080121075	WIWIK	1.0	428500.0	2008/01/17 00:00:00.000	PRONAS CORNED BEEF 198	10901.25	PCS
23	400.0	JC-080120411	WIWIK	1.0	87850.0	2008/01/07 00:00:00.000	GARUDA KCG BAWANG 220	10395.0	PCS
24	411.0	JC-080120015	WIWIK	1.0	70600.0	2008/01/02 00:00:00.000	ABC SQUASH ORANGE 580 ML	9752.5	DOS
25	412.0	JC-080120036	WIWIK	1.0	119900.0	2008/01/02 00:00:00.000	OLAY WHT RADIANCE LOT 30	19737.5	PCS
26	429.0	JC-080121060	WIWIK	2.0	74900.0	2008/01/17 00:00:00.000	ABC JUICE SLIM JAMBU 250	3172.5	PCS
27	430.0	JC-080121067	WIWIK	1.0	11050.0	2008/01/17 00:00:00.000	TESSA TP-09	2812.5	PCS
28	432.0	JC-080121075	WIWIK	1.0	428500.0	2008/01/17 00:00:00.000	ABC SARDINES TOMAT 425	8207.5	PCS
29	459.0	JC-080120010	WIWIK	2.0	208100.0	2008/01/02 00:00:00.000	WRD EXCL MATTE LIP C 09 4GR	2061.25	PCS
30	460.0	JC-080120027	WIWIK	1.0	5800.0	2008/01/02 00:00:00.000	RITZ SANDWICH CRAC CHESE 118	4367.5	PCS

Close Show Log

## • Toko Iroh

Examine preview data									
Rows of step: Microsoft Excel input 2 (1000 rows)									
#	kode	nomor_perjualan	username	qty	total_nilai	tanggal	Nama	Harga	Satuan
1	4.0	JC-091170029	RIANTI	1.0	416925.0	2009/11/02 00:00:00.000	NUTRIELL PLAIN 15 GR	2667.5	BOX
2	5.0	JC-091150024	DEWI	3.0	28700.0	2009/11/02 00:00:00.000	ABC KC HIAU 200ML KHKS	2880.0	DOS
3	8.0	JC-091071503	RIANTI	1.0	96500.0	2009/10/27 00:00:00.000	INDOCAFE COFFEMIX 30 X 20G	23773.75	DOS
4	14.0	JC-081150959	DEWI	1.0	8250.0	2008/11/24 00:00:00.000	ALKALINE LR-03 (ISI 2)	7936.25	LSN
5	15.0	JC-081171470	RIANTI	1.0	78100.0	2008/11/24 00:00:00.000	POCARI SWEAT PET 500	5577.5	DOS
6	16.0	JC-081171470	RIANTI	2.0	78100.0	2008/11/24 00:00:00.000	ROMA SARI GANDUM ROLL 149	3951.25	DOS
7	18.0	JC-081150965	DEWI	1.0	295250.0	2008/11/24 00:00:00.000	TARO NET POTATO 16	950.0	DOS
8	43.0	JC-091170087	RIANTI	1.0	194850.0	2009/11/02 00:00:00.000	COCA-COLA 1.5 LT	11125.0	PCS
9	49.0	JC-091170087	RIANTI	1.0	29950.0	2009/11/02 00:00:00.000	COCA-COLA 1.5 LT	11125.0	PCS
10	52.0	JC-080130001	ETIK	1.0	168750.0	2008/01/02 00:00:00.000	PASEO BATROM 6 ROLL	22263.75	PCS
11	55.0	JC-091071411	RIANTI	1.0	39400.0	2009/10/22 00:00:00.000	PIATOS SAPI PGG 85	1087.5	PCS
12	68.0	JC-080130016	ETIK	1.0	59900.0	2008/01/02 00:00:00.000	FRUIT TEA KLG BLACK	2916.25	PCS
13	82.0	JC-081270559	RIANTI	1.0	20650.0	2008/12/10 00:00:00.000	PANTENE AD 6X10 ML	2970.0	STR
14	86.0	JC-091050734	DEWI	1.0	23450.0	2009/10/26 00:00:00.000	PANTENE HAIRFALL 70	9157.5	PCS
15	91.0	JC-091170067	RIANTI	1.0	70850.0	2009/11/06 00:00:00.000	NE SUPERO CRACKER 90	1875.0	DOS
16	97.0	JC-101071220	RIANTI	4.0	69600.0	2010/10/21 00:00:00.000	KERALA JENGOT TEH 40G	1375.0	PCS
17	98.0	JC-101071220	RIANTI	2.0	69600.0	2010/10/21 00:00:00.000	SIDO MULIA KOPI KING 250	11875.0	KG
18	99.0	JC-101071240	RIANTI	5.0	51350.0	2010/10/21 00:00:00.000	HELLO PANDA ALL VARIANT 12 G	1310.0	BOX
19	100.0	JC-080130006	ETIK	1.0	48300.0	2008/01/02 00:00:00.000	ABC TERASI UDANG 20 X 4.2	3347.5	PCS
20	101.0	JC-080130006	ETIK	1.0	48300.0	2008/01/02 00:00:00.000	H&S CLEAN&BALANCE 180ML	17975.0	PCS
21	104.0	JC-091170268	RIANTI	2.0	289150.0	2009/11/05 00:00:00.000	PANTENE BLACK 170 ML	19812.5	PCS
22	110.0	JC-091150369	DEWI	1.0	98100.0	2009/11/05 00:00:00.000	PANTENE HAIRFALL 70	9157.5	PCS
23	112.0	JC-091170114	RIANTI	1.0	194850.0	2009/11/03 00:00:00.000	ABC WHITE COFFEE INSTAN 5+ 1	2552.5	DOS
24	131.0	JC-091170029	RIANTI	1.0	416925.0	2009/11/02 00:00:00.000	H&S CLEAN&BALANCE 180ML	17975.0	PCS
25	134.0	JC-091071503	RIANTI	1.0	98500.0	2009/10/27 00:00:00.000	H&S CLEAN&BALANCE 180ML	17975.0	PCS
26	137.0	JC-081171470	RIANTI	1.0	78100.0	2008/11/24 00:00:00.000	OLAY WHT RADIANCE LOT 30	19737.5	PCS
27	143.0	JC-080770419	RIANTI	1.0	28650.0	2008/07/08 00:00:00.000	ABC KCP MANIS BTL 275M	6715.0	PCS
28	144.0	JC-080770437	RIANTI	1.0	17400.0	2008/07/09 00:00:00.000	SIDO MULIA KOPI KING 250	11875.0	KG
29	151.0	JC-091170076	RIANTI	64.0	129000.0	2009/11/03 00:00:00.000	GOOD DAY CAPPU GRANUL 25	3802.5	RBG
30	152.0	JC-091170029	RIANTI	1.0	416925.0	2009/11/02 00:00:00.000	MR.TASIK KMNG KL KK/KB35	5627.5	PCS

## Toko Zuko

Examine preview data									
Rows of step: Microsoft Excel input 3 (1000 rows)									
#	kode	nomor_perjualan	username	qty	total_nilai	tanggal	Nama	Harga	Satuan
1	95.0	JC-111030136	RIDO	1.0	112500.0	2011/10/05 00:00:00.000	ABC KCP MANIS BTL 275M	6715.0	PCS
2	118.0	JC-150671315	RIZKY	1.0	31000.0	2015/06/29 00:00:00.000	SIDO MULIA KOPI KING 250	11875.0	KG
3	187.0	JC-111030136	RIDO	1.0	112500.0	2011/10/05 00:00:00.000	MAX CREAMER 500 GR DUS	17490.0	DOS
4	198.0	JC-111030130	RIANTI	5.0	51800.0	2011/10/05 00:00:00.000	SEDAIP MIE AYAM BAWANG	1022.5	DOS
5	202.0	JC-150671321	RIZKY	1.0	45400.0	2015/06/29 00:00:00.000	SHINZU1 SAKURA 90	2763.75	PCS
6	229.0	JC-150671295	RIZKY	1.0	276000.0	2015/06/29 00:00:00.000	L'AGIE SAFARI COKLAT 100	2000.0	PCS
7	274.0	JC-091030403	RIDO	1.0	110450.0	2009/10/26 00:00:00.000	MTIU BABY REFILL BLUE	11287.5	PCS
8	277.0	JC-091030416	RIDO	1.0	0.0	2009/10/26 00:00:00.000	TARO NET POTATO 16	950.0	DOS
9	279.0	JC-091030416	RIDO	2.0	0.0	2009/10/26 00:00:00.000	ABC KC HIAU 200ML KHKS	2080.0	DOS
10	373.0	JC-111030146	RIDO	6.0	482100.0	2011/10/05 00:00:00.000	NUVO FAMILY KING 80GR	1393.75	PCS
11	436.0	JC-111030151	RIDO	3.0	568400.0	2011/10/05 00:00:00.000	LENA X-LIME 23ML	1938.75	DOS
12	454.0	JC-111030146	RIDO	20.0	62650.0	2011/10/05 00:00:00.000	SEDAIP MIE AYAM BAWANG	1022.5	DOS
13	457.0	JC-111030146	RIDO	3.0	482100.0	2011/10/05 00:00:00.000	SOKLIN PRO/ POWER 900	15625.0	DOS
14	589.0	JC-111030150	RIDO	1.0	51800.0	2011/10/05 00:00:00.000	FINNA SARDINES 425	6600.0	PCS
15	676.0	JC-111030151	RIDO	3.0	568400.0	2011/10/05 00:00:00.000	NUVO FAMILY BIRU 80GR	1393.75	PCS
16	711.0	JC-150671314	RIZKY	2.0	7200.0	2015/06/29 00:00:00.000	AQUA 1500 ML	2672.5	DOS
17	734.0	JC-150671344	RIZKY	1.0	12100.0	2015/06/30 00:00:00.000	AQUA 1500 ML	2672.5	DOS
18	764.0	JC-111030139	RIDO	1.0	130750.0	2011/10/05 00:00:00.000	CERES HGL CLASSIC 90	5747.5	PACK
19	803.0	JC-091030415	RIDO	1.0	62650.0	2009/10/26 00:00:00.000	KACANG OVEN UENAK 200	4791.25	PCS
20	903.0	JC-091030415	RIDO	2.0	62650.0	2009/10/26 00:00:00.000	DOLPIN GARAM 500	2300.0	DOS
21	991.0	JC-091030403	RIDO	1.0	110450.0	2009/10/26 00:00:00.000	ABC SARDINES CHILI 425	8207.5	PCS
22	1161.0	JC-111030154	RIDO	1.0	79700.0	2011/10/05 00:00:00.000	SOKLIN PRO/ POWER 900	15625.0	DOS
23	1261.0	JC-091030405	RIDO	1.0	98000.0	2009/10/26 00:00:00.000	BUMBU PECEL KARANGSARI	5000.0	PCS
24	1542.0	JC-091030403	RIDO	1.0	110450.0	2009/10/26 00:00:00.000	INDOCAFE COFFEMIX 5X20GR SAC	3858.75	DOS
25	1556.0	JC-111030146	RIDO	2.0	482100.0	2011/10/05 00:00:00.000	EMERON SHP AK 80	3310.0	PCS
26	1557.0	JC-111030151	RIDO	4.0	568400.0	2011/10/05 00:00:00.000	INDOCAFE COFFEMIX 5X20GR SAC	3858.75	DOS
27	1559.0	JC-111030151	RIDO	3.0	568400.0	2011/10/05 00:00:00.000	NUVO FAMILY MERAH 80G	1281.25	PCS
28	1834.0	JC-111030133	RIDO	6.0	50500.0	2011/10/05 00:00:00.000	PANTENE AD 6X10 ML	2970.0	STR
29	1826.0	JC-111030133	RIDO	1.0	50500.0	2011/10/05 00:00:00.000	SQ CASHEW 68	7580.0	PCS
30	1894.0	JC-150671317	RIZKY	5.0	9000.0	2015/06/29 00:00:00.000	NUVO FAMILY MERAH 80G	1281.25	PCS

## DB:

SELECT \* FROM `stagingpenjualan`

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	2667.50	1	33000.00	Azura
2008-01-02	NUTRIJELL LANGGUR 15 GR	BOX	2667.50	1	33000.00	Azura
2008-01-02	NUTRIJELL PLAIN 15 GR	BOX	2667.50	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	16825.00	1	20250.00	Azura
2008-01-17	AJINOMOTO 50GR	PCS	1418.75	2	56500.00	Azura
2008-02-18	ABC SBLASLI 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-6	LSN	1450.00	4	18600.00	Azura
2008-01-17	ABC KCP ASIN 133 ML	PCS	2250.00	1	91325.00	Azura
2008-01-02	CARRERA POLES M 20GX8S	PCS	2800.00	2	70600.00	Azura
2008-01-02	MAX CREAMER 500 GR DUS	DOS	17490.00	1	131150.00	Azura

## A. Dimensi Waktu

1. Buatlah sebuah database yang digunakan sebagai OLAP dengan nama dw\_LegendVehicle.
2. 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 );

```

Proses bisnis pada LegendVehicle adalah 20 tahun. Sehingga data pada tabel dimdate yang harus tersedia adalah tanggal selama 15 tahun. Mulai dari 1 Januari 2005

1. Buka PDI Spoon. Buat Transformation baru -> **File - New - Transformation.**
2. Drag and Drop beberapa objek yaitu:
  - Generate Rows: digunakan untuk membuat baris data baru.
  - Add Sequence: digunakan untuk membuat sequence, dalam hal ini membuat data di setiap harinya.
  - Calculator: digunakan untuk menjumlahkan hari dan mengambil data tahun, bulan dan hari.
  - Select Values: digunakan untuk memilih field yang digunakan.
  - Database Lookup: digunakan untuk melihat dan memastikan bahwa data yang akan dimasukkan kedalam tabel dimDate tidak kembar atau sama dengan data yang ada pada tabel dimDate itu sendiri.
  - Filter Rows: digunakan untuk mengambil data yang belum ada pada table dimDate setelah dicek sebelumnya.
  - Table Output: digunakan untuk menyimpan data pada tabel tujuan (dimDate).



3. 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 ).
4. Membuat fields baru bernama CurrentDate dengan type data Date dan format dd-MM-yyyy serta value awal 01-01-2005.

Generate rows

Step name: Generate rows

Limit: 7300

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 string
1	CurrentDate	Date	dd-MM-yyyy						01-01-2005	<input type="checkbox"/>

Help OK Preview Cancel

5. Hubungkan output dari Generate Rows menuju Add Sequence.

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

**Add sequence** — □ ×

Step name: Add sequence

Name of value: incrementDay

Use a database to generate the sequence

Use DB to get sequence? ☐

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

Schema name:  Schemas...

Sequence name: SEQ Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☒

Counter name (optional):

Start at value: 0

Increment by: 1

Maximum value: 999999999

Help OK Cancel

7. Hubungkan output dari Generate Rows menuju Add Sequence.
8. Konfigurasi pada Add Sequences adalah merubah Name of value menjadi incrementDay dengan start value bernilai 0 dan increment by bernilai 1
- **streamDate** merupakan kalkulasi dari **CurrentDate + incrementDay**
  - **streamMonth** merupakan **Month** dari **streamDate**
  - **streamDay** merupakan **Day of month** dari **streamDate**

**Calculator** — □ ×

Step name: Calculator

☒ 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	Grouping symbol
1	streamDate	Date A + B 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			

9. Hubungkan output dari calculator menuju Select values
10. 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.

**Select values** — □ ×

Step name: Select values

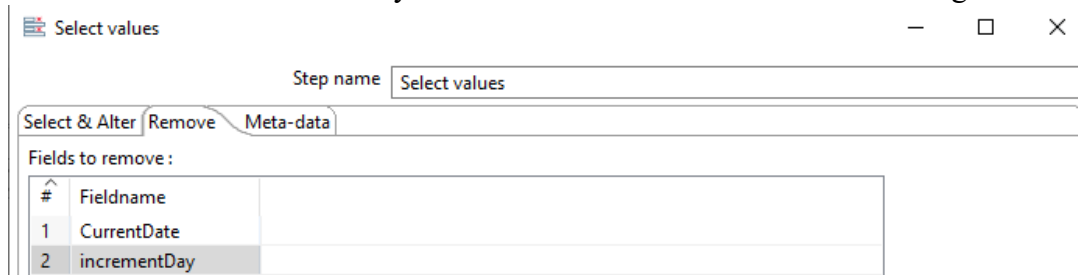
Select & Alter Remove Meta-data

Fields:

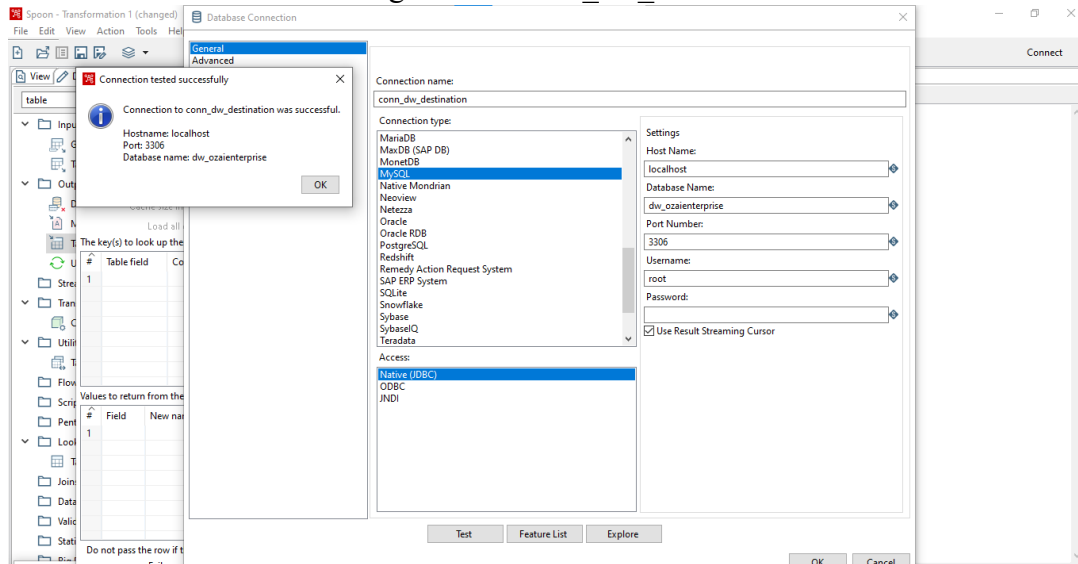
#	Fieldname	Rename to	Length	Precision
1	CurrentDate			
2	incrementDay			
3	streamDate			
4	streamYear			
5	streamMonth			
6	streamDay			

Get fields to select Edit Mapping

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



12. Hubungkan output select values menuju database lookup.
13. 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.



14. 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.
15. Field yang akan dicek untuk melihat kesamaan isi datanya agar tidak kembar adalah:
- field date pada table dimdate dengan field streamDate
  - field year pada table dimdate dengan field streamYear
  - field month pada table dimdate dengan field streamMonth
  - field day pada table dimdate dengan field streamDay

Database lookup

Step name: Database lookup

Connection: conn\_dw\_destination

Lookup schema: dw\_ozaienterprise

Lookup table: dimdate

Enable cache? ☐

Cache size in rows (0=cache): 0

Load all data from table ☐

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

#	Table field	Comparator	Field1	Field2
1	date	=	streamDate	
2	year	=	streamYear	
3	month	=	streamMonth	
4	day	=	streamDay	

Values to return from the lookup table :

#	Field	New name	Default	Type
1	date			None
2	year			None
3	month			None
4	day			None

Do not pass the row if the lookup fails ☐

Fail on multiple results? ☐

Order by:

16. Field yang akan di **retrive** adalah field yang ada pada table **dimDate** yaitu **date, year, month, dan day**.
17. Hubungkan output dari database lookup dengan filter rows
18. Konfigurasi pada filter rows adalah dengan melakukan konfigurasi output true data pada table output. Pada bagian ini data yang tidak memiliki kesamaan pada tahapan sebelumnya akan dicek dimana jika fields Stream tidak memiliki kesamaan dengan field dimDate, maka field dimDate tersebut akan bernilai null. Pada pernyataan kondisi tuliskan ( date is null and year is null and month is null and day is null)



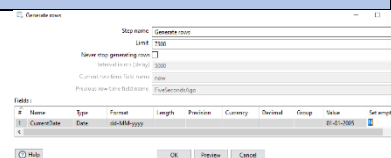
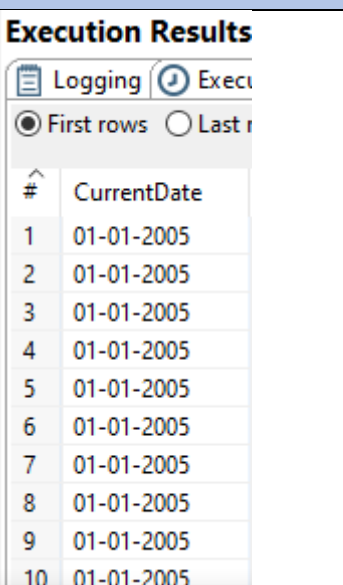


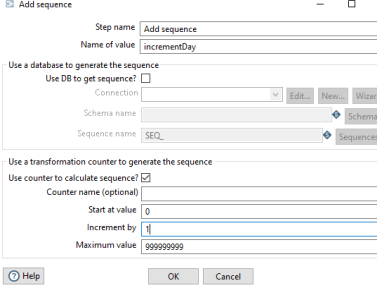
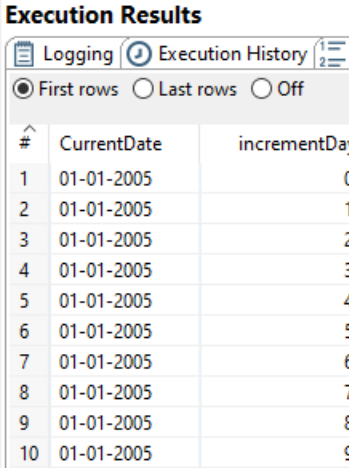
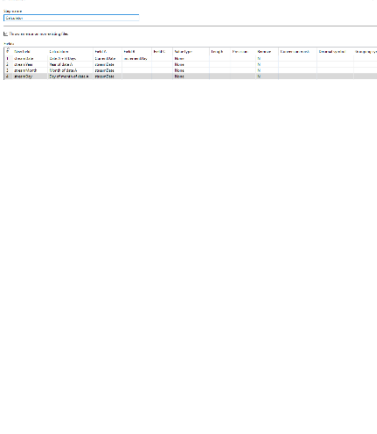
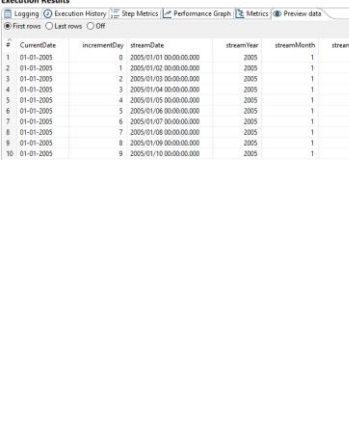
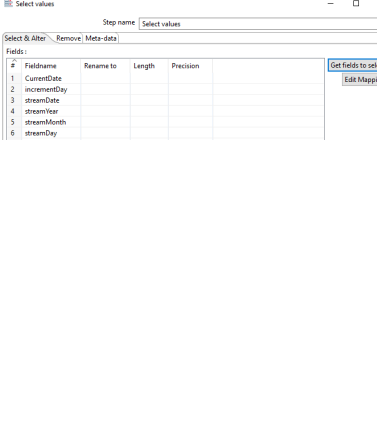
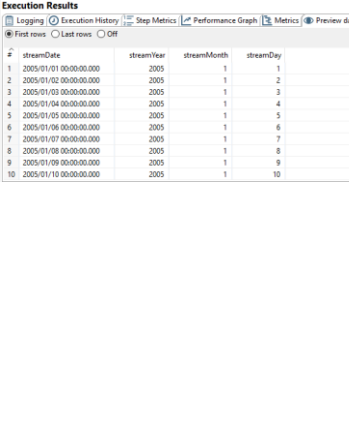
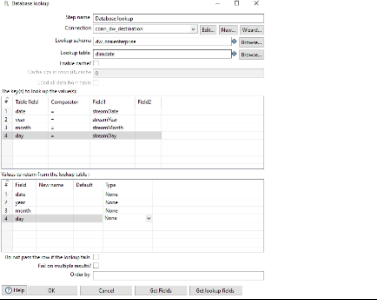
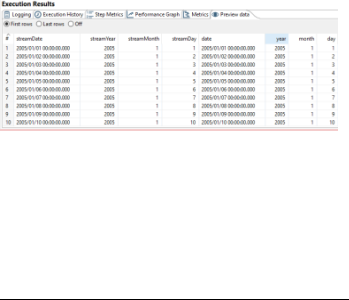
23. cek isi table dimdate pada database. Jika sukses maka pada table dimdate akan terisi 1825 data.

date	year	month	day
2005-01-01	2005	1	1
2005-01-02	2005	1	2
2005-01-03	2005	1	3
2005-01-04	2005	1	4
2005-01-05	2005	1	5
2005-01-06	2005	1	6
2005-01-07	2005	1	7
2005-01-08	2005	1	8
2005-01-09	2005	1	9
2005-01-10	2005	1	10
2005-01-11	2005	1	11
2005-01-12	2005	1	12
2005-01-13	2005	1	13
2005-01-14	2005	1	14
2005-01-15	2005	1	15

## TUGAS 1

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 di setiap prosesnya.

Proses Objek	SS data input	SS data output	Ket
Generate rows			Hasil output baris date dengan limit yang diinputkan

Add Sequence			Hasil generate rows, ditambahkan kolom incrementDay yang berisi angka dari 1 jumlah baris yang ditentukan
Calculator			Hasil add sequenes ditambahkan kolom streamDate, streamYear, streamMonth, streamDay sebagai offset hari
Select values			Menampilka n output kolom yang dipilih saja karena kan ada yang di remove yaitu currentDate dan incrementDay
Database lookup			cek data apakah sudah ada didatabase

<div>Filter rows</div> <div><div>Step name: <b>Filter rows</b></div><div>Send 'true' data to step: <b>Table output</b></div><div>Send 'false' data to step:</div><div>The condition: <pre>(   (     date IS NULL     AND     year IS NULL     AND     (       month IS NULL       AND       day IS NULL     )   ) )</pre></div></div>	<div>Execution Results</div> <div><div>Loggings</div><div>Execution History</div><div>Step Metrics</div><div>Performance Graph</div><div>Metrics</div><div>Previous data</div></div> <div># Filter rows   Last rows   CDR</div> <table><tr><th>#</th><th>streamDate</th><th>streamYear</th><th>streamMonth</th><th>streamDay</th><th>date</th><th>year</th><th>month</th></tr><tr><td>1</td><td>2005-01-01 00:00:00.000</td><td>2005</td><td>1</td><td>1</td><td>2005-01-01 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>2</td><td>2005-01-02 00:00:00.000</td><td>2005</td><td>1</td><td>2</td><td>2005-01-02 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>3</td><td>2005-01-03 00:00:00.000</td><td>2005</td><td>1</td><td>3</td><td>2005-01-03 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>4</td><td>2005-01-04 00:00:00.000</td><td>2005</td><td>1</td><td>4</td><td>2005-01-04 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>5</td><td>2005-01-05 00:00:00.000</td><td>2005</td><td>1</td><td>5</td><td>2005-01-05 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>6</td><td>2005-01-06 00:00:00.000</td><td>2005</td><td>1</td><td>6</td><td>2005-01-06 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>7</td><td>2005-01-07 00:00:00.000</td><td>2005</td><td>1</td><td>7</td><td>2005-01-07 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>8</td><td>2005-01-08 00:00:00.000</td><td>2005</td><td>1</td><td>8</td><td>2005-01-08 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>9</td><td>2005-01-09 00:00:00.000</td><td>2005</td><td>1</td><td>9</td><td>2005-01-09 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>10</td><td>2005-01-10 00:00:00.000</td><td>2005</td><td>1</td><td>10</td><td>2005-01-10 00:00:00.000</td><td>2005</td><td>1</td></tr></table>	#	streamDate	streamYear	streamMonth	streamDay	date	year	month	1	2005-01-01 00:00:00.000	2005	1	1	2005-01-01 00:00:00.000	2005	1	2	2005-01-02 00:00:00.000	2005	1	2	2005-01-02 00:00:00.000	2005	1	3	2005-01-03 00:00:00.000	2005	1	3	2005-01-03 00:00:00.000	2005	1	4	2005-01-04 00:00:00.000	2005	1	4	2005-01-04 00:00:00.000	2005	1	5	2005-01-05 00:00:00.000	2005	1	5	2005-01-05 00:00:00.000	2005	1	6	2005-01-06 00:00:00.000	2005	1	6	2005-01-06 00:00:00.000	2005	1	7	2005-01-07 00:00:00.000	2005	1	7	2005-01-07 00:00:00.000	2005	1	8	2005-01-08 00:00:00.000	2005	1	8	2005-01-08 00:00:00.000	2005	1	9	2005-01-09 00:00:00.000	2005	1	9	2005-01-09 00:00:00.000	2005	1	10	2005-01-10 00:00:00.000	2005	1	10	2005-01-10 00:00:00.000	2005	1	Menyimpan data yang belum ada di tabel, untuk menghindari duplikasi															
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<div>Table Output</div> <div><div>Step name: <b>Table output</b></div><div>Connection: <b>conn_dw_destination</b></div><div>Target schema: <b>dw_esscenterprise</b></div><div>Target table: <b>dimdate</b></div><div>Commit size: <b>1000</b></div><div>Truncate table: <input type="checkbox"/></div><div>Specify database field: <input checked="" type="checkbox"/></div><div>Main options (Database field):</div><div>Fields to insert:</div><table><tr><th>#</th><th>Table field</th><th>Stream field</th></tr><tr><td>1</td><td>date</td><td>streamDate</td></tr><tr><td>2</td><td>year</td><td>streamYear</td></tr><tr><td>3</td><td>month</td><td>streamMonth</td></tr><tr><td>4</td><td>day</td><td>streamDay</td></tr></table></div>	#	Table field	Stream field	1	date	streamDate	2	year	streamYear	3	month	streamMonth	4	day	streamDay	<div>Execution Results</div> <div><div>Loggings</div><div>Execution History</div><div>Step Metrics</div><div>Performance Graph</div><div>Metrics</div><div>Previous data</div></div> <div># Filter rows   Last rows   CDR</div> <table><tr><th>#</th><th>streamDate</th><th>streamYear</th><th>streamMonth</th><th>streamDay</th><th>date</th><th>year</th><th>month</th></tr><tr><td>1</td><td>2005-01-01 00:00:00.000</td><td>2005</td><td>1</td><td>1</td><td>2005-01-01 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>2</td><td>2005-01-02 00:00:00.000</td><td>2005</td><td>1</td><td>2</td><td>2005-01-02 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>3</td><td>2005-01-03 00:00:00.000</td><td>2005</td><td>1</td><td>3</td><td>2005-01-03 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>4</td><td>2005-01-04 00:00:00.000</td><td>2005</td><td>1</td><td>4</td><td>2005-01-04 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>5</td><td>2005-01-05 00:00:00.000</td><td>2005</td><td>1</td><td>5</td><td>2005-01-05 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>6</td><td>2005-01-06 00:00:00.000</td><td>2005</td><td>1</td><td>6</td><td>2005-01-06 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>7</td><td>2005-01-07 00:00:00.000</td><td>2005</td><td>1</td><td>7</td><td>2005-01-07 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>8</td><td>2005-01-08 00:00:00.000</td><td>2005</td><td>1</td><td>8</td><td>2005-01-08 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>9</td><td>2005-01-09 00:00:00.000</td><td>2005</td><td>1</td><td>9</td><td>2005-01-09 00:00:00.000</td><td>2005</td><td>1</td></tr><tr><td>10</td><td>2005-01-10 00:00:00.000</td><td>2005</td><td>1</td><td>10</td><td>2005-01-10 00:00:00.000</td><td>2005</td><td>1</td></tr></table>	#	streamDate	streamYear	streamMonth	streamDay	date	year	month	1	2005-01-01 00:00:00.000	2005	1	1	2005-01-01 00:00:00.000	2005	1	2	2005-01-02 00:00:00.000	2005	1	2	2005-01-02 00:00:00.000	2005	1	3	2005-01-03 00:00:00.000	2005	1	3	2005-01-03 00:00:00.000	2005	1	4	2005-01-04 00:00:00.000	2005	1	4	2005-01-04 00:00:00.000	2005	1	5	2005-01-05 00:00:00.000	2005	1	5	2005-01-05 00:00:00.000	2005	1	6	2005-01-06 00:00:00.000	2005	1	6	2005-01-06 00:00:00.000	2005	1	7	2005-01-07 00:00:00.000	2005	1	7	2005-01-07 00:00:00.000	2005	1	8	2005-01-08 00:00:00.000	2005	1	8	2005-01-08 00:00:00.000	2005	1	9	2005-01-09 00:00:00.000	2005	1	9	2005-01-09 00:00:00.000	2005	1	10	2005-01-10 00:00:00.000	2005	1	10	2005-01-10 00:00:00.000	2005	1	Data akan keluar, data yang akan masuk dalam database
#	Table field	Stream field																																																																																																							
1	date	streamDate																																																																																																							
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