# JOBSHEET 4 MULTI RESOURCE MATA KULIAH DATA WAREHOUSE

#### Oleh:

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# PROGRAM STUDI D4 SISTEM INFORMASI BISNIS JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG 2025

#### STUDI KASUS

Pak Ozai merupakan staff di PT Indomarko Prismatama. 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.

Toko Azura: https://github.com/dik4rizky/datasources/blob/main/tokoazura.xls

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

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

#### Langkah Praktikum

Buat tabel staging di database dw OzaiEnterprise

```
✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0422 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]
```

Drag and drop 3 Excel Input untuk data tokoazura, tokozuko, dan tokoiroh Toko Azura

Upload file tokoazura tekan tombol browse dan klik ok. Jika berhasil maka muncul pada FileDirectory



Kemudian klik tombol field lalu klik get field. Sesuaikan setiap field pada excel tokoazura seperti berikut



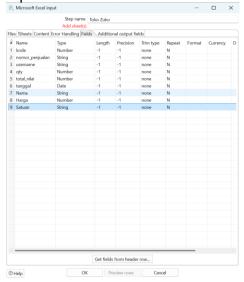
Kemudian klik ok

#### Toko Zuko

Upload file tokozuko tekan tombol browse dan klik ok. Jika berhasil maka muncul pada FileDirectory

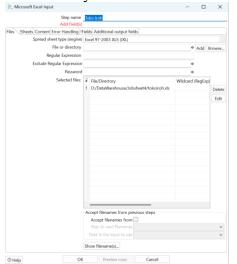


Kemudian klik tombol field lalu klik get field. Sesuaikan setiap field pada excel tokozuko seperti berikut



#### Toko Iroh

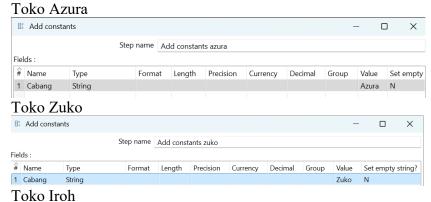
Upload file tokozuko tekan tombol browse dan klik ok. Jika berhasil maka muncul pada FileDirectory



Kemudian klik tombol field lalu klik get field. Sesuaikan setiap field pada excel tokozuko seperti berikut



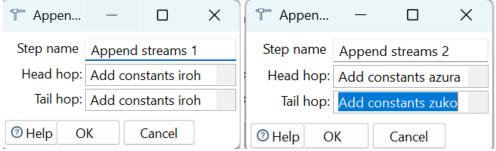
Tambahkan add constants (untuk mengisi field cabang dengan value constant)





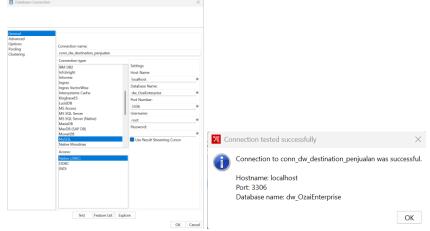
Lakukan union dengan Append Streams atau Merge Rows untuk menggabungkan ketiga data menjadi satu

Append streams 1 dan 2



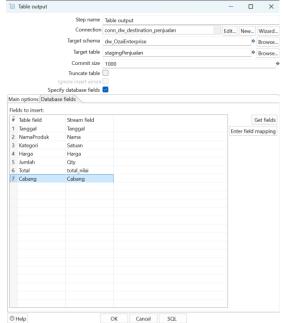
Konfigurasi untuk tabel output

Buat koneksi ke database dw\_OzaiEnterprise

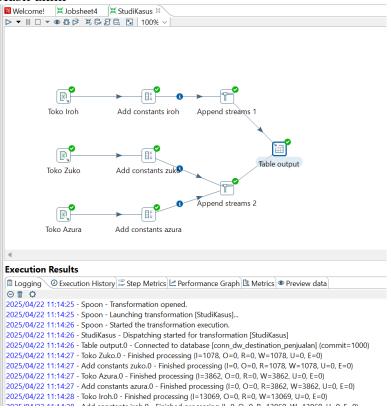


Konfigurasi tabel output dan database fields nya sesuai dengan struktur tabel

stagingPenjualan



#### Hasil akhir



#### Isi tabel pada database:



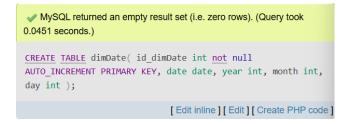
Tanggal	NamaProduk	Kategori	Harga	Jumlah	Total	Cabang
2008-02-18	INDOCAFE CAPUCINO KTK 5X25G	PCS	6916.25	2	353700.00	Azura
2008-02-18	ALKALINE LR-03 (ISI 2)	LSN	7936.25	1	8250.00	Azura
2008-01-02	NUTRIJELL STRAW 15 GR	BOX	2667.50	1	33000.00	Azura
2008-01-02	NUTRIJELL ANGGUR 15 GR	BOX	2667.50	1	33000.00	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	15625.00	1	20250.00	Azura
2008-01-17	AJINOMOTO 50GR	PCS	1418.75	2	56500.00	Azura

#### Dimensi Waktu

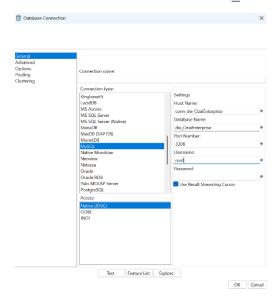
#### Membuat dabatase dw OzaiEnterprise



#### Membuat table dimDate



#### Membuat koneksi ke database dw OzaiEnterprise



Hasil Percobaan Praktikum dapat dilihat pada file Jobsheet4.krt

Percobaan berhasil karena table dimdate terisi 1825 rows



Isi Table dimdate seperti berikut

id_dimDate	date	year	month	day
1	2003-01-01	2003	1	1
2	2003-01-02	2003	1	2
3	2003-01-03	2003	1	3
4	2003-01-04	2003	1	4
5	2003-01-05	2003	1	5

#### **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.

Stepname	Copynr	Read	Written	Input	Output
Generate rows	0	0	1825	0	0
Add sequence	0	1825	1825	0	0
Calculator	0	1825	1825	0	0
Select values	0	1825	1825	0	0
Database lookup	0	1825	1825	0	0
Filter rows	0	1825	1825	0	0
Table output	0	1825	1825	0	1825

#### Generate rows

Input	Output	Keterangan
Tidak ada	# CurrentDate	Membuat field currentdate
	1 01-01-2003	yang berisi 1825 rows
	2 01-01-2003	
	3 01-01-2003	
	4 01-01-2003	
	5 01-01-2003	

# Add Sequences

		Input		Out	put	Keterangan
	ŵ	CurrentDate	#	CurrentDate	incrementDay	Terbentuk field baru
	1	01-01-2003	-	01-01-2003	0	incrementDay yang dimulai
			2	01-01-2003	1	dari nilai 0 dan bertambah
	2	01-01-2003	3	01-01-2003	2	
	3	01-01-2003	4	01-01-2003	3	terus
	4	01-01-2003	5	01-01-2003	4	
	5	01-01-2003				
Outp	ut (	dari generate rows				

# Calculator

_			
	Input	Output	Keterangan

#	CurrentDate	incrementDay		CurrentDate	incrementDay		streamYear	streamMonth	streamDay	Terbentuk field baru
1	01-01-2003	0		01-01-2003		2003/01/01 00:00:00.000 2003/01/02 00:00:00.000	2003 2003	1	1 2	
_	01-01-2003	1		01-01-2003		2003/01/03 00:00:00.000	2003	1	3	streamDate: tanggal
_	01-01-2003	2		01-01-2003		2003/01/04 00:00:00.000	2003	1	4	awal 01-01-2023
	01-01-2003 01-01-2003	3	5	01-01-2003	4	2003/01/05 00:00:00.000	2003	1	5	
		lori Add								bertambah sesuai
C	-	lari Add								baris incrementDay
	Seque	ences								streamYear:
										mengambil year
										pada field
										streamDate
										streamMonth:
										mengambil month
										pada field
										streamDate
										streamDay:
										mengambil day
										pada field
										streamDate

# Select values

		Input					Keterangan			
# CurrentDate	incrementDay	streamDate	streamYear	streamMonth	streamDay	# streamDate	streamYear	streamMonth	streamDay	Menghapus
1 01-01-2003	0	2003/01/01 00:00:00.000	2003	1	1	1 2003/01/01 00:00:00.000	2003	1	1	Menghapus
2 01-01-2003	1	2003/01/02 00:00:00.000	2003	1	2	2 2003/01/02 00:00:00.000	2003	1	2	C: -1.1
3 01-01-2003	2	2003/01/03 00:00:00.000	2003	1	3	3 2003/01/03 00:00:00:00 4 2003/01/04 00:00:00.000	2003	1	3	field
4 01-01-2003	3	2003/01/04 00:00:00.000	2003	1	4	5 2003/01/05 00:00:00:00	2003	1	5	
5 01-01-2003	4	2003/01/05 00:00:00.000	2003	1	5					currentdate &
	Out	tput dari Ca	lculato	or						incerementday

# Database lookup

	Input	,			Outp	out	Keterangan					
# streamDate	streamYear	streamMonth	streamDay	# streamDate	streamYear	streamMonth			year	month	day	M1 C -1.1 1-4
1 2003/01/01 00:00:00.000	2003	1	1	1 2003/01/01 00:00:00.0 2 2003/01/02 00:00:00.0		1		null>	<nul></nul>	<null></null>		Muncul field date year,
2 2003/01/02 00:00:00.000	2003	1	2	3 2003/01/02 00:00:00:0		1	2 4		coults	<null></null>	enulls enulls	
3 2003/01/03 00:00:00.000	2003	1	3	4 2003/01/04 00:00:00:0		1	4 <		<nul></nul>	<null></null>	<nul></nul>	month, day
4 2003/01/04 00:00:00.000	2003	1	4	5 2003/01/05 00:00:00.0	00 2003	1	5 <	null>	<nul>&lt;</nul>	<null></null>	snull>	month, day
5 2003/01/05 00:00:00.000	2003	1	5									
Output	selec	t valu	es									

# Filter rows

	Input									Outp	Keterangan				
# streamDate	streamYear	streamMonth	streamDay date	year	month	day	П	# streamDate	streamYear	streamMonth	streamDay date	year	month	day	M 1 C 11 1 4
1 2003/01/01 00:00:00.000	2003	1	1 <null></null>	<nul><li><nul></nul></li></nul>	<null></null>	<null></null>		1 2003/01/01 00:00:00.000	2003	1	1 <null></null>	<nul><li><nul></nul></li></nul>	<null></null>	<null></null>	Muncul field date
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4 2003/01/04 00:00:00:00	2003	1	4 <null></null>	<nul></nul>	<null></null>	<null></null>		4 2003/01/04 00:00:00:000	2003	1	4 <null></null>	<null></null>	<null></null>	<null></null>	year, month, day
5 2003/01/05 00:00:00.000	2003	1	5 <null></null>	<nul><li><nul></nul></li></nul>	<null></null>	<nul><li><null></null></li></nul>		5 2003/01/05 00:00:00.000	2003	1	5 <null></null>	<nul>&lt;</nul>	<null></null>	<nul><li><nul></nul></li></nul>	y car, monan, aay
Outp	out d	lataba	ase loc	kuj	p										

# Table Output

	Input									Outp	Keterangan				
# streamDate	streamYear	streamMonth	streamDay date	e yea	r month	day	П	# streamDate	streamYear	streamMonth	streamDay date	year	month	day	16 111
1 2003/01/01 00:00:00.000	2003	1	1 <m.< td=""><td>ill&gt; <null></null></td><td><null></null></td><td><nul><li><nul></nul></li></nul></td><td></td><td>1 2003/01/01 00:00:00.000</td><td>2003</td><td>1</td><td>1 <null></null></td><td><nul><li><nul></nul></li></nul></td><td><null></null></td><td><null></null></td><td>Muncul field date</td></m.<>	ill> <null></null>	<null></null>	<nul><li><nul></nul></li></nul>		1 2003/01/01 00:00:00.000	2003	1	1 <null></null>	<nul><li><nul></nul></li></nul>	<null></null>	<null></null>	Muncul field date
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4 2003/01/04 00:00:00:00	2003	1	4 <nc< td=""><td>ill&gt; <null< td=""><td><null></null></td><td><null></null></td><td></td><td>4 2003/01/04 00:00:00:000</td><td>2003</td><td>1</td><td>4 <null></null></td><td><nul></nul></td><td><null></null></td><td><null></null></td><td>year, month, day</td></null<></td></nc<>	ill> <null< td=""><td><null></null></td><td><null></null></td><td></td><td>4 2003/01/04 00:00:00:000</td><td>2003</td><td>1</td><td>4 <null></null></td><td><nul></nul></td><td><null></null></td><td><null></null></td><td>year, month, day</td></null<>	<null></null>	<null></null>		4 2003/01/04 00:00:00:000	2003	1	4 <null></null>	<nul></nul>	<null></null>	<null></null>	year, month, day
5 2003/01/05 00:00:00.000	2003	1	5 <nc< td=""><td>ill&gt; snulb</td><td><null></null></td><td><nul><li><nul></nul></li></nul></td><td></td><td>5 2003/01/05 00:00:00.000</td><td>2003</td><td>1</td><td>5 <null></null></td><td><nul><li><nul></nul></li></nul></td><td><null></null></td><td><null></null></td><td>J 5 511, 111 5 11 111, 11 11 1</td></nc<>	ill> snulb	<null></null>	<nul><li><nul></nul></li></nul>		5 2003/01/05 00:00:00.000	2003	1	5 <null></null>	<nul><li><nul></nul></li></nul>	<null></null>	<null></null>	J 5 511, 111 5 11 111, 11 11 1
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