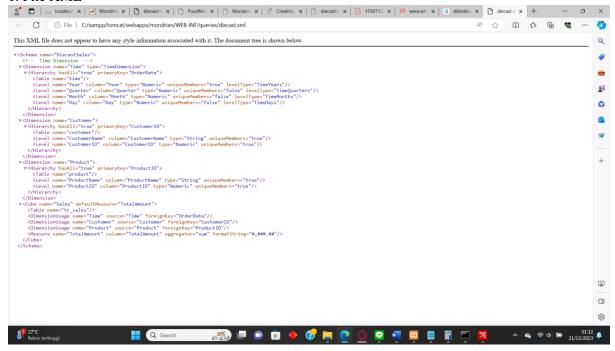
Julius Calvin Saputra (0000068626)

1. File XML



Time Dimension

Dimension name: "Time"

Dimension type: "TimeDimension"

Hierarchy: Year, Quarter, Month, and Day.

Table: Time table Primary key: OrderDate

Customer dimension

Dimension name: "Customer"

Hierarchy: CustomerName and CustomerID levels.

Table: Customer

Primary key: CustomerID

Product dimension

Dimension name: "Product"

Hierarchy: ProductName and ProductID levels.

Table: Product table Primary key: ProductID

Sales cube

Cube name: "Sales"

Measure: Total Amount, where it uses the aggregator function "sum" to calculate the total.

Table: tr_sales

Dimension Usage: Connects cubes with time, customer \, and product dimensions through foreign key

2. File JSP

The combination of CustomerID, ProductID, and ProductName in the row of the Sales cube, along with the selection of TotalAmount in the column, constitute the performed query.

3. Output

MDX ♣↓		1
		Measures
Customer	Product	TotalAmount
3	116	
	119	
	118	
	115	
	120	
	117	
	-Bburago Bugatti Chiron	
	-Hotwheels Aston Martin Vantage	
	-Jada Chevrolet Camaro	
	-Maisto Ford GT	
	-Maisto Toyota Land Cruiser	
	-Welly Mercedes-Benz GLE	
1	116	
	119	
	118	
	115	
	120	
	117	
	-Bburago Bugatti Chiron	
	-Hotwheels Aston Martin Vantage	
	-Jada Chevrolet Camaro	
	-Maisto Ford GT	
	-Maisto Toyota Land Cruiser	
	-Welly Mercedes-Benz GLE	
4	116	
	119	
	118	
	115	
	120	
	117	
	-Bburago Bugatti Chiron	
	-Hotwheels Aston Martin Vantage	
	-Jada Chevrolet Camaro	
	-Maisto Ford GT	
	-Maisto Toyota Land Cruiser	

	-Welly Mercedes-Benz GLE	
4	116	
	119	
	118	
	115	
	120	
	117	
	-Bburago Bugatti Chiron	
	-Hotwheels Aston Martin Vantage	
	-Jada Chevrolet Camaro	
	-Maisto Ford GT	
	-Maisto Toyota Land Cruiser	
	-Welly Mercedes-Benz GLE	
2	116	
	119	
	118	
	115	
	120	
	117	
	-Bburago Bugatti Chiron	
	-Hotwheels Aston Martin Vantage	
	-Jada Chevrolet Camaro	
	-Maisto Ford GT	
	-Maisto Toyota Land Cruiser	
	-Welly Mercedes-Benz GLE	

```
    Julius.1.Maisto Ford GT.115.
    Julius.1.Maisto Toyota Land Cruiser.120.

🏮 Julius.1.Welly Mercedes-Benz GLE.117. 🥚 Julius.1.Bburago Bugatti Chiron.
🌕 Julius.1.Hotwheels Aston Martin Vantage. 🔵 Julius.1.Jada Chevrolet Camaro.

■ Julius.1.Maisto Ford GT. ■ Julius.1.Maisto Toyota Land Cruiser.

🌢 Julius.1.Welly Mercedes-Benz GLE. 🌘 N/A.4.Bburago Bugatti Chiron.116.

    N/A.4.Hotwheels Aston Martin Vantage.119.
    N/A.4.Jada Chevrolet Camaro.118.

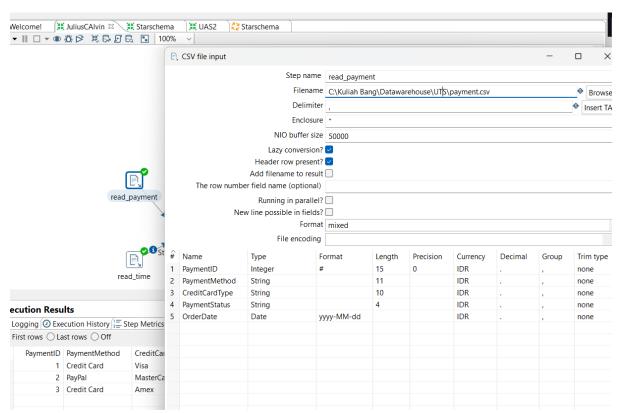
🌒 N/A.4.Maisto Ford GT.115. 🧶 N/A.4.Maisto Toyota Land Cruiser.120.
N/A.4.Welly Mercedes-Benz GLE.117. N/A.4.Bburago Bugatti Chiron.
🜕 N/A.4.Hotwheels Aston Martin Vantage. 🌕 N/A.4.Jada Chevrolet Camaro. 🔘 N/A.4.Maisto Ford GT.
🔴 N/A.4.Maisto Toyota Land Cruiser. 🌻 N/A.4.Welly Mercedes-Benz GLE.
🌻 Vinh.2.Bburago Bugatti Chiron.116. 📀 Vinh.2.Hotwheels Aston Martin Vantage.119.
🌖 Vinh.2.Jada Chevrolet Camaro.118. 🥚 Vinh.2.Maisto Ford GT.115.

■ Vinh.2.Maisto Toyota Land Cruiser.120. ■ Vinh.2.Welly Mercedes-Benz GLE.117.

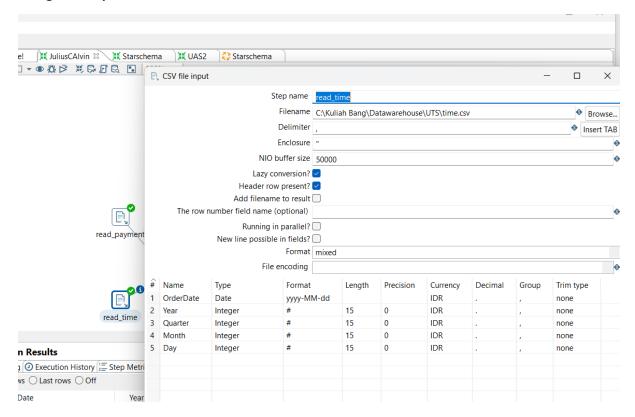
🜒 Vinh.2.Bburago Bugatti Chiron. 🌘 Vinh.2.Hotwheels Aston Martin Vantage.
🜻 Vinh.2.Jada Chevrolet Camaro. 🧶 Vinh.2.Maisto Ford GT. 🗶 Vinh.2.Maisto Toyota Land Cruiser.
Vinh.2.Welly Mercedes-Benz GLE.
```

OLEB Cube menunjukkan setiap pelanggan dan apa yang mereka beli, misalnya Julius membeli 1 Maisto Ford GT. Ini berarti perusahaan dapat melacak penjualan dan melihat apa yang dibeli oleh setiap pelanggan.

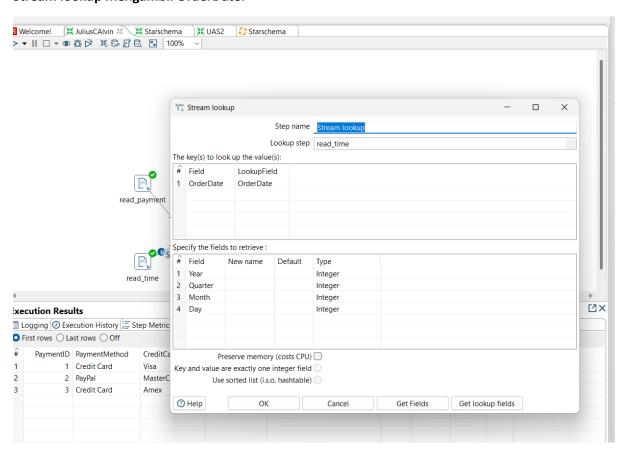
4. ETL 1 Mengambil inputan dari file csv:



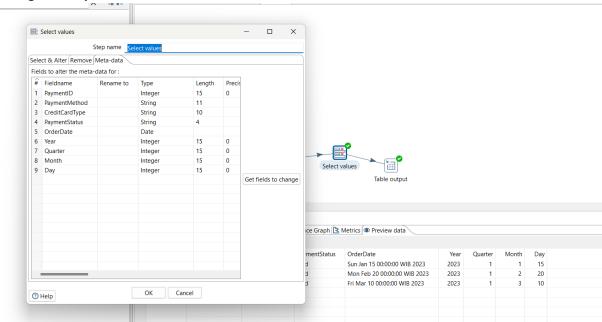
Mengambil inputan dari file csv:



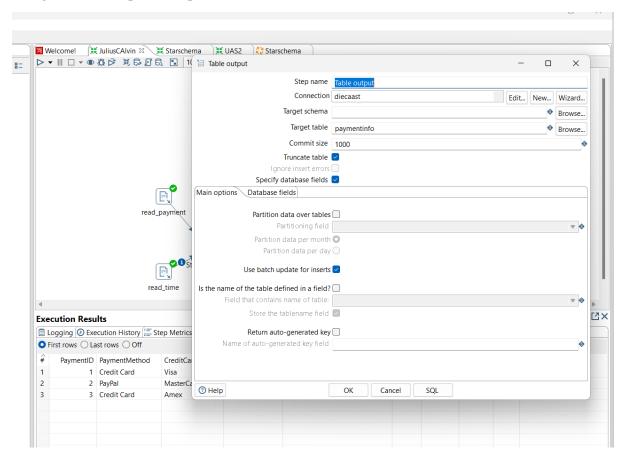
Stream lookup mengambil OrderDate:



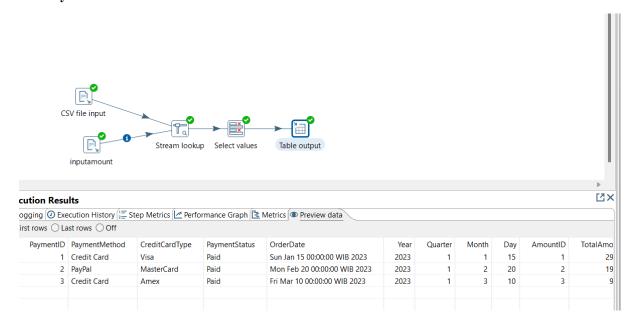
Mengambil inputan dari file csv:



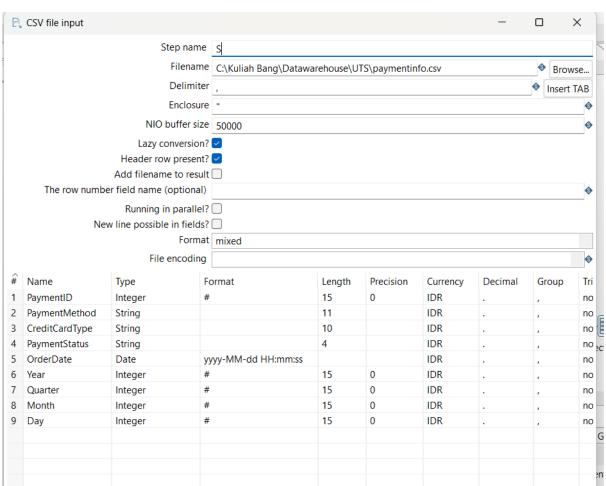
Mengeluarkan output table pada database:



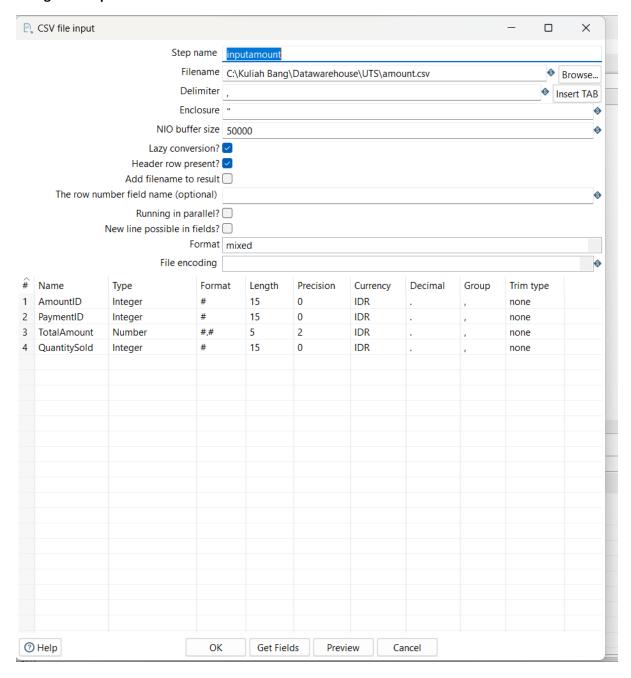
Hasilnya adalah:



5. ETL 2 Mengambil inputan dari file csv:



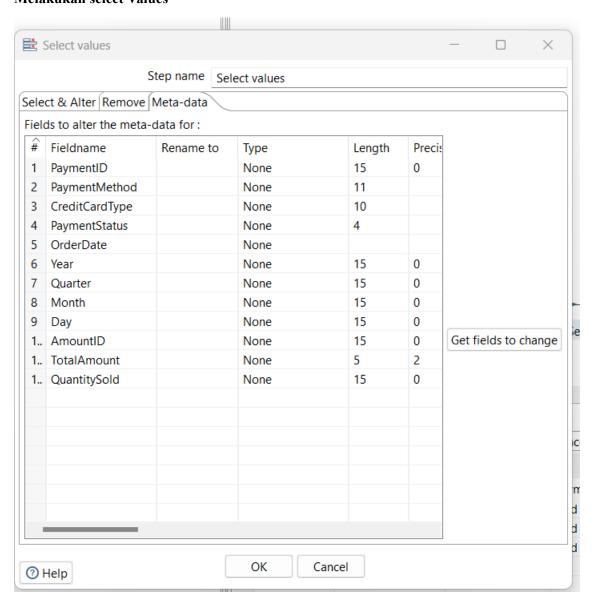
Mengambil inputan dari file csv:



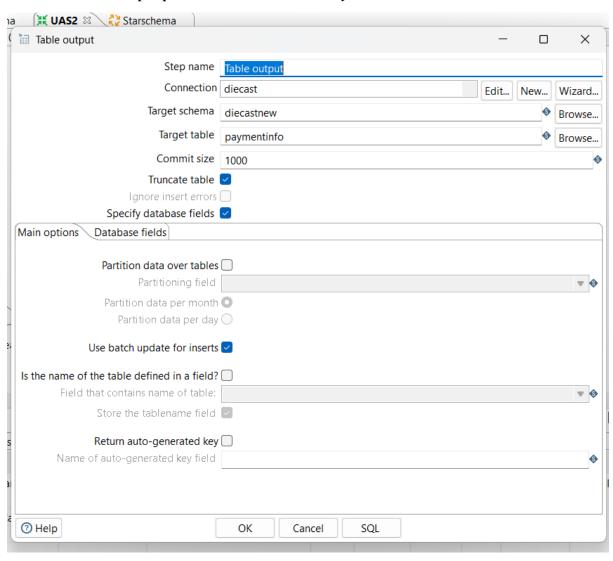
$Melakukan\ Stream\ lookup\ untuk\ mengambil Amount ID,\ Total Amount\ dan\ Quantity Sold$

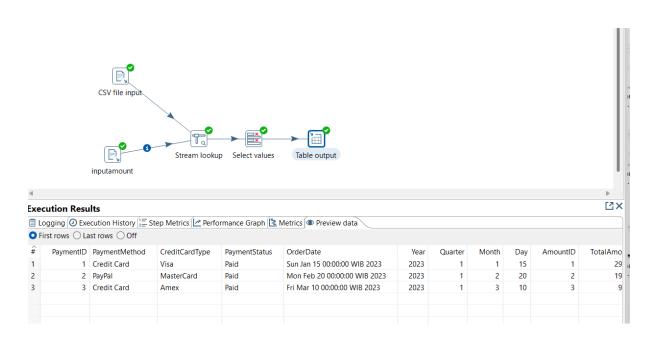
Ta	Stream lookup)				_		×			
		Step	name St	ream lookup							
		Look	ıp step in	putamount							
The key(s) to look up the value(s):											
#	Field	LookupField									
1	PaymentID	PaymentID									
Spe	cify the fields t	o retrieve :									
#	Field	New name	Default	Туре							
1	AmountID			Integer							
2	TotalAmount			Number							
3	QuantitySold			Integer							
		erve memory (cos									
Key		exactly one integ									
	Use so	rted list (i.s.o. has	shtable) 🔾								
?	Help	OK		Cancel	Get Fields	Get lookup fields					

Melakukan select Values



Melakukan table output pada database Bernama "Paymentinfo:

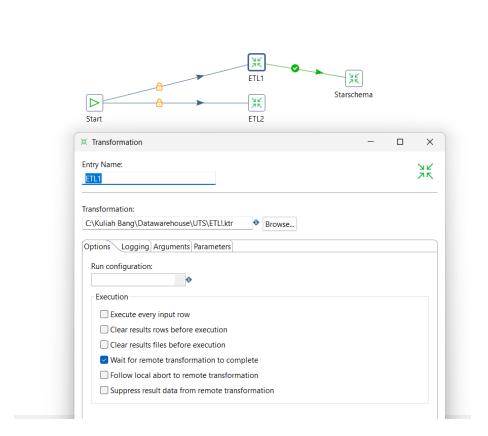




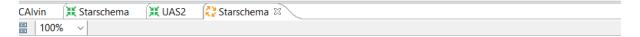
6. Job (KJB)

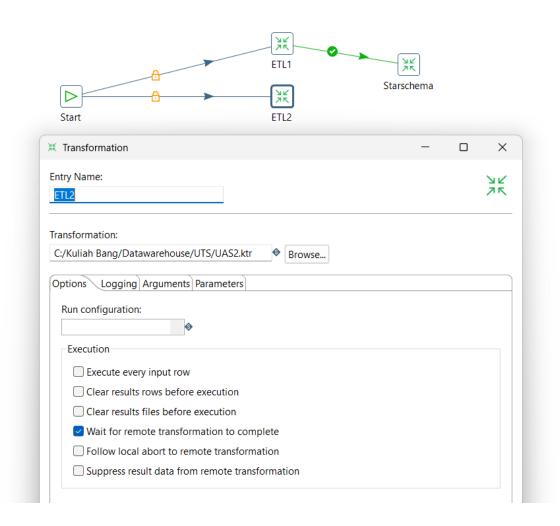
Pada JOB ini akan melakukan ETL1, ETL2 dan starschema saat di run.

Melakukan pengimplementasi ETL1 pada transformasi yang pertama ISLAIVIN | JR STAIRSCHEMA | JR STAIRSCHEMA | JR STAIRSCHEMA | ST



Melakukan pengimplementasi ETL2 pada transformasi yang kedua





Melakukan pengimplementasi starschema pada transformasi yang ketiga

