

Nama : Anggi Periwawan

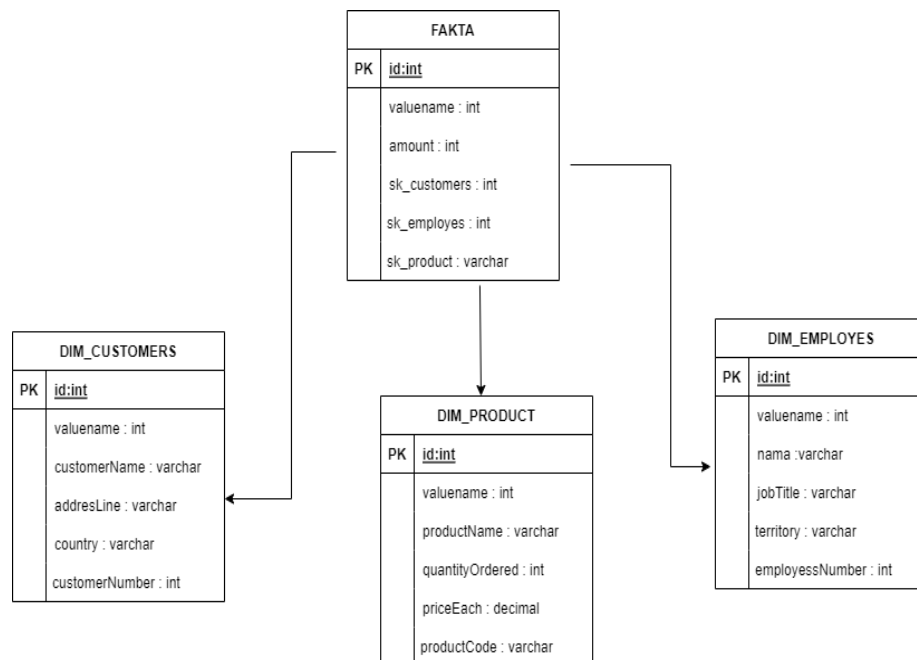
Kelas : 5A

NIM : 20090013

UTS Data Warehouse

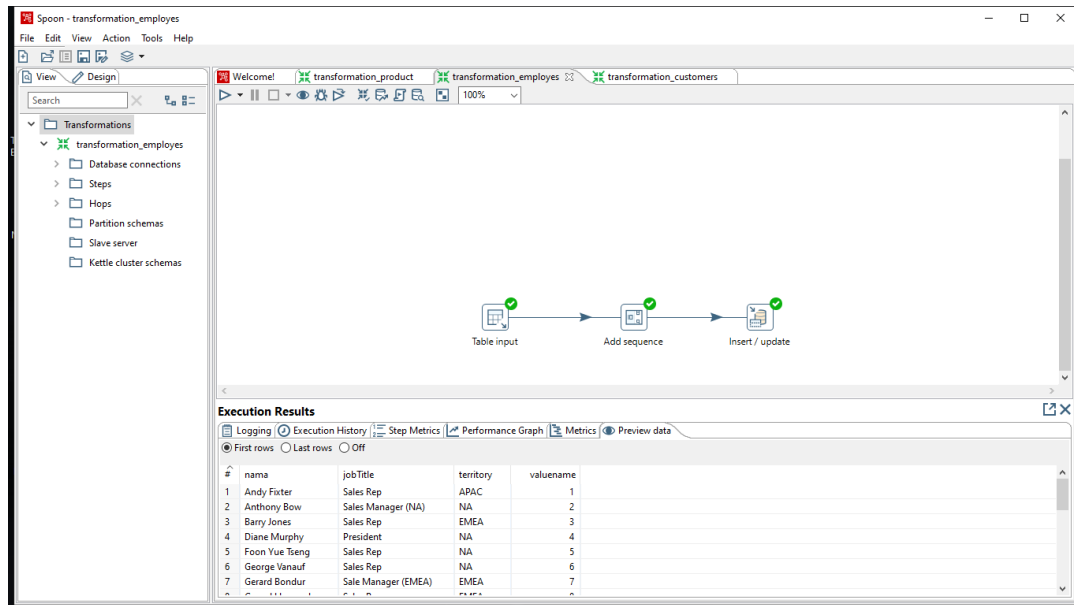
1. Desain Relasi

Saya membuat 3 dimensi yaitu, dim_customers, dim_employees dan dim_product dan satu table fakta



2. Transformasi

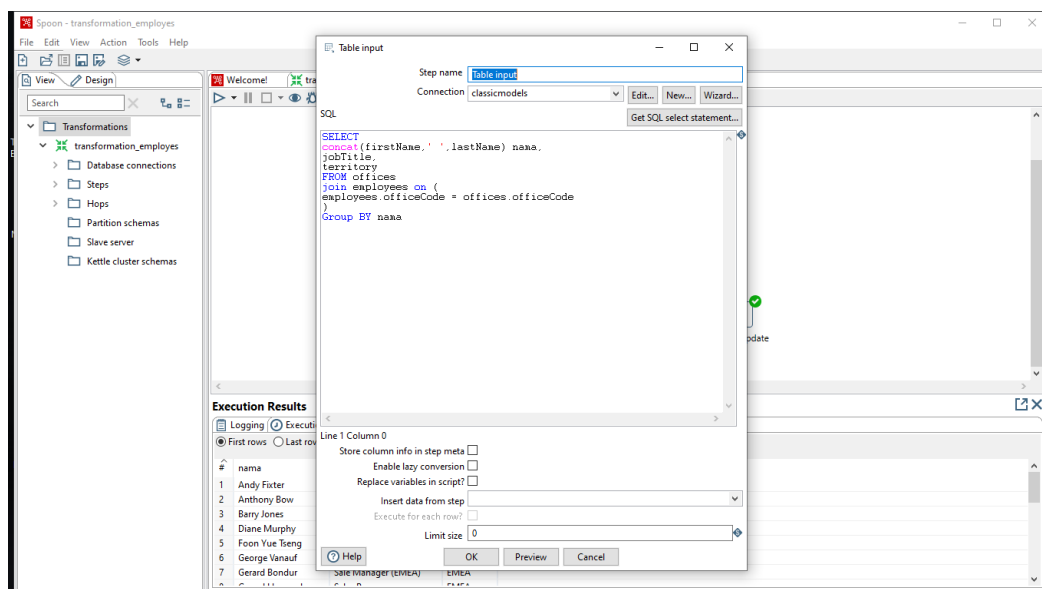
a) Transformation_employees



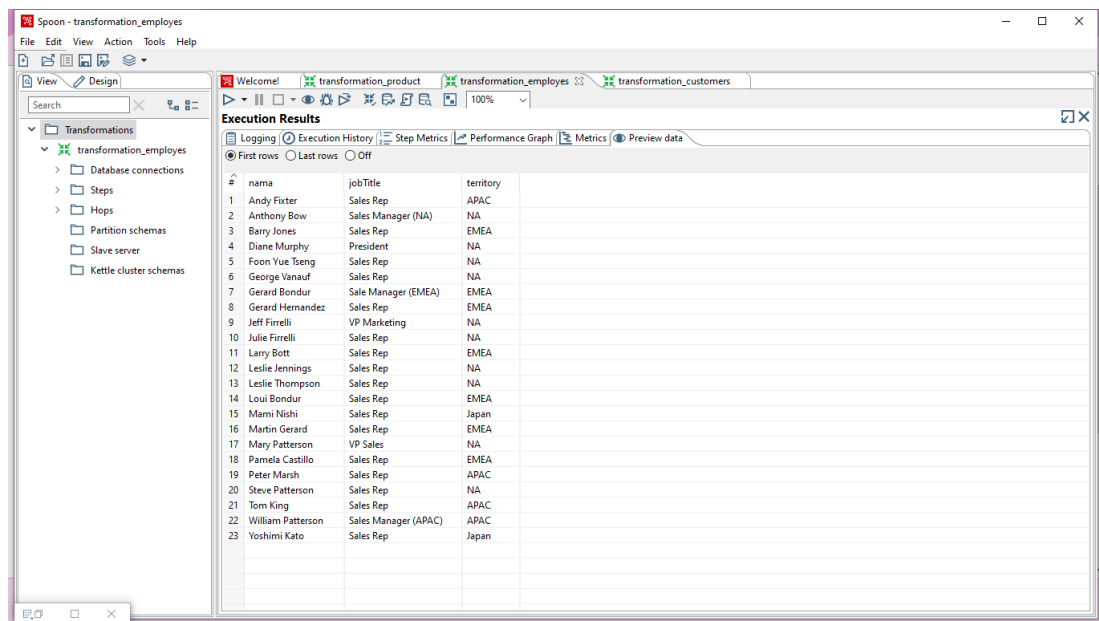
Transformation_ employees dibuat untuk menambahkan table employees yang adadidalam database. Disini saya menggunakan 3 tools yaitu table input, add sequence dan insert/update.

Query transformation:

Disini saya membuat query dari tabel karyawan yang berisi atribut nama, jobTitle, dan territory.

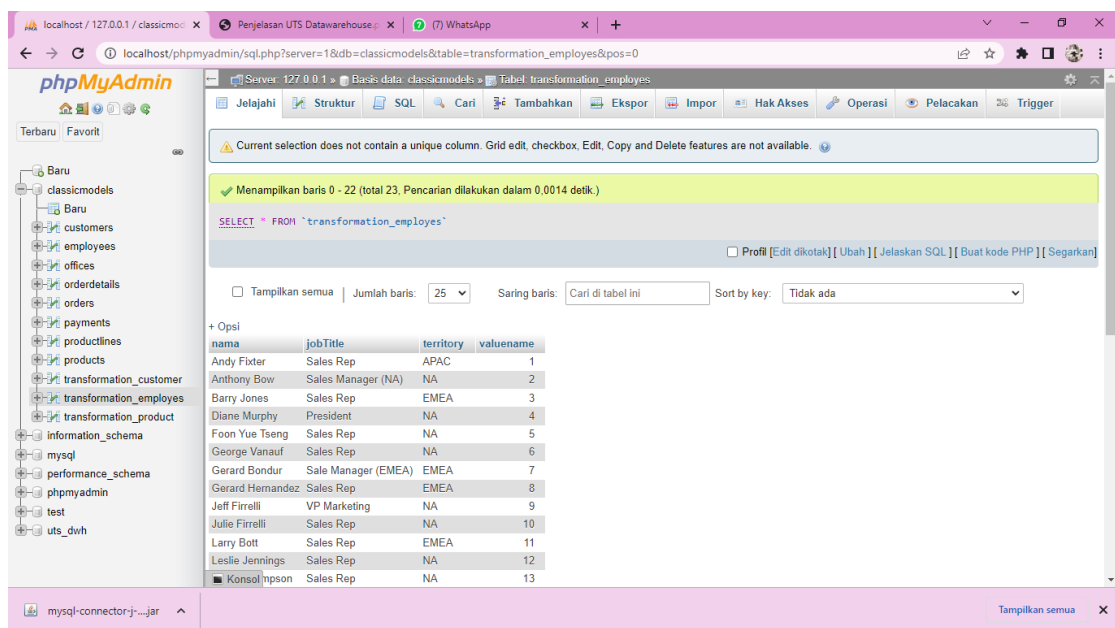


Hasil transformasi:



Execution Results

#	nama	jobTitle	territory
1	Andy Fixter	Sales Rep	APAC
2	Anthony Bow	Sales Manager (NA)	NA
3	Barry Jones	Sales Rep	EMEA
4	Diane Murphy	President	NA
5	Foon Yue Tseng	Sales Rep	NA
6	George Vanauf	Sales Rep	NA
7	Gerard Bondur	Sale Manager (EMEA)	EMEA
8	Gerard Hernandez	Sales Rep	EMEA
9	Jeff Firrelli	VP Marketing	NA
10	Julie Firrelli	Sales Rep	NA
11	Larry Bott	Sales Rep	EMEA
12	Leslie Jennings	Sales Rep	NA
13	Leslie Thompson	Sales Rep	NA
14	Lou Bondur	Sales Rep	EMEA
15	Mami Nishi	Sales Rep	Japan
16	Martin Gerard	Sales Rep	EMEA
17	Mary Patterson	VP Sales	NA
18	Pamela Castillo	Sales Rep	EMEA
19	Peter Marsh	Sales Rep	APAC
20	Steve Patterson	Sales Rep	NA
21	Tom King	Sales Rep	APAC
22	William Patterson	Sales Manager (APAC)	APAC
23	Yoshimi Kato	Sales Rep	Japan



Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Menampilkan baris 0 - 22 (total 23. Pencarian dilakukan dalam 0.0014 detik.)

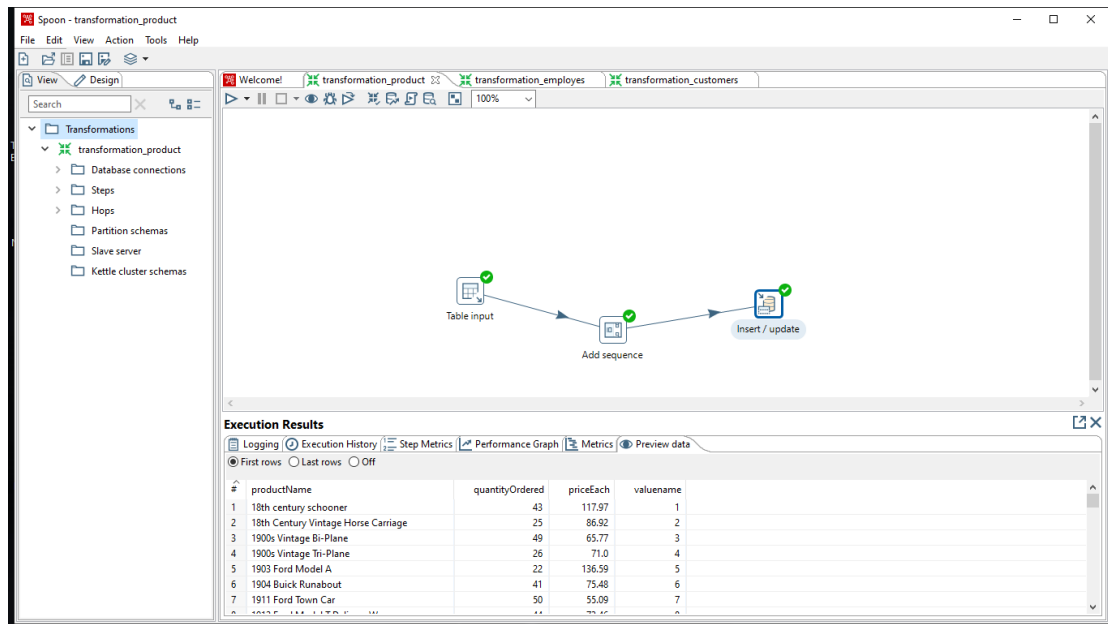
```
SELECT * FROM `transformation_employees`
```

Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini | Sort by key: Tidak ada

nama	jobTitle	territory	valueName
Andy Fixter	Sales Rep	APAC	1
Anthony Bow	Sales Manager (NA)	NA	2
Barry Jones	Sales Rep	EMEA	3
Diane Murphy	President	NA	4
Foon Yue Tseng	Sales Rep	NA	5
George Vanauf	Sales Rep	NA	6
Gerard Bondur	Sale Manager (EMEA)	EMEA	7
Gerard Hernandez	Sales Rep	EMEA	8
Jeff Firrelli	VP Marketing	NA	9
Julie Firrelli	Sales Rep	NA	10
Larry Bott	Sales Rep	EMEA	11
Leslie Jennings	Sales Rep	NA	12
Leslie Thompson	Sales Rep	NA	13

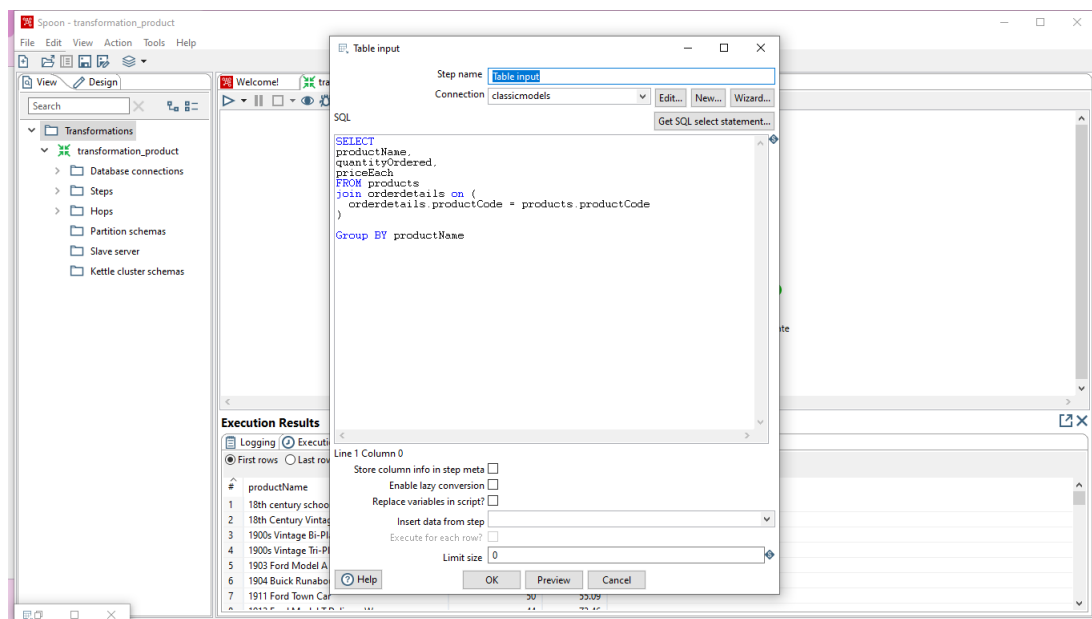
b) Transformation_product

Transformation_product dibuat untuk menambahkan table product yang ada didalam database. Disini saya menggunakan 3 tools yaitu table input, add sequence dan insert/update.

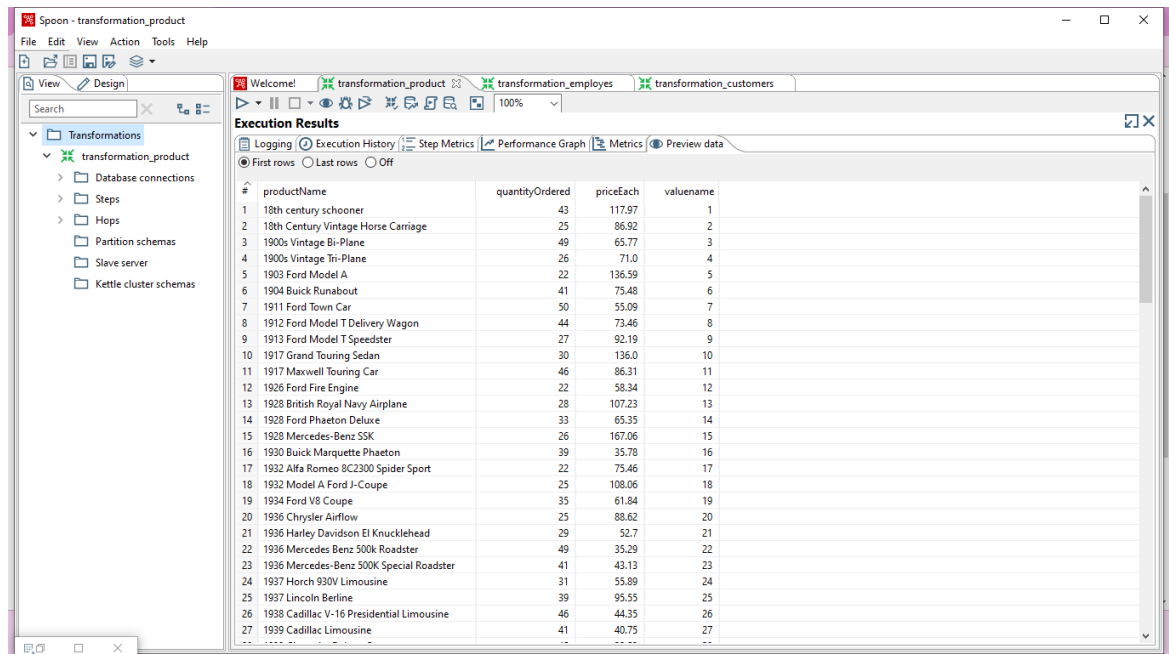


Query transformation:

Disini saya membuat query dari tabel product yang berisi atribut nama product, quantity order, dan harga.

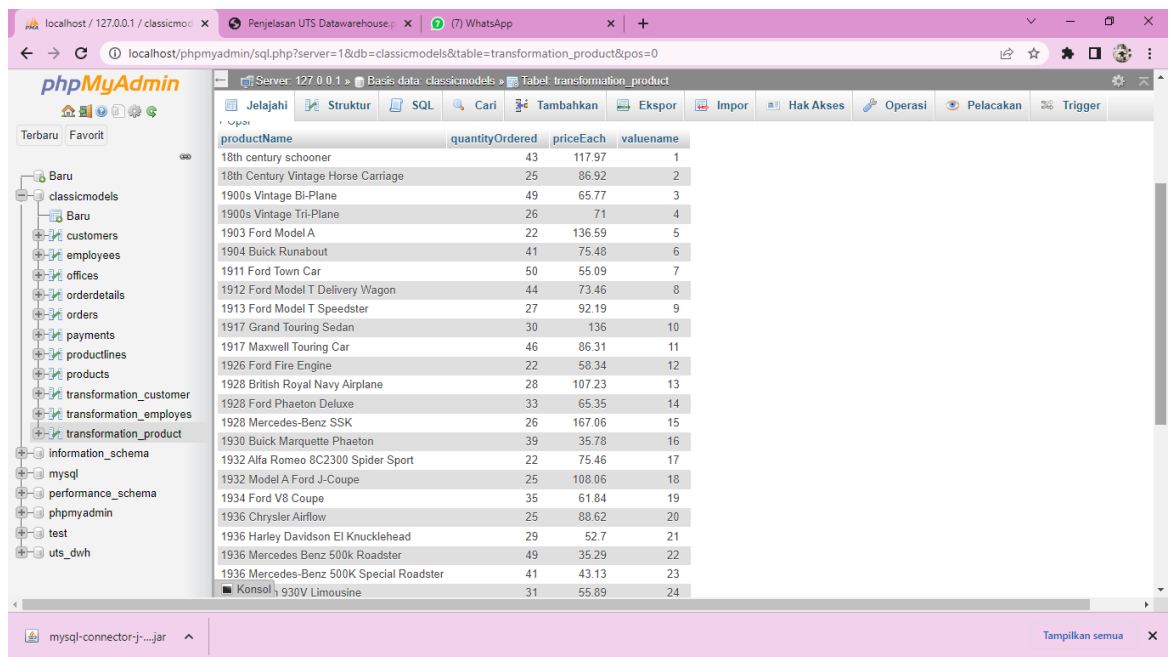


Hasil transformasi:



The screenshot shows the Apache Spark Spoon interface. The 'Execution Results' tab is active, displaying a table of data. The table has four columns: 'productName', 'quantityOrdered', 'priceEach', and 'valuenam'. The data is listed in 27 rows, numbered 1 through 27. The interface also shows a sidebar with a tree view of the project structure, including 'Database connections', 'Steps', 'Hops', 'Partition schemas', 'Slave server', and 'Kettle cluster schemas'.

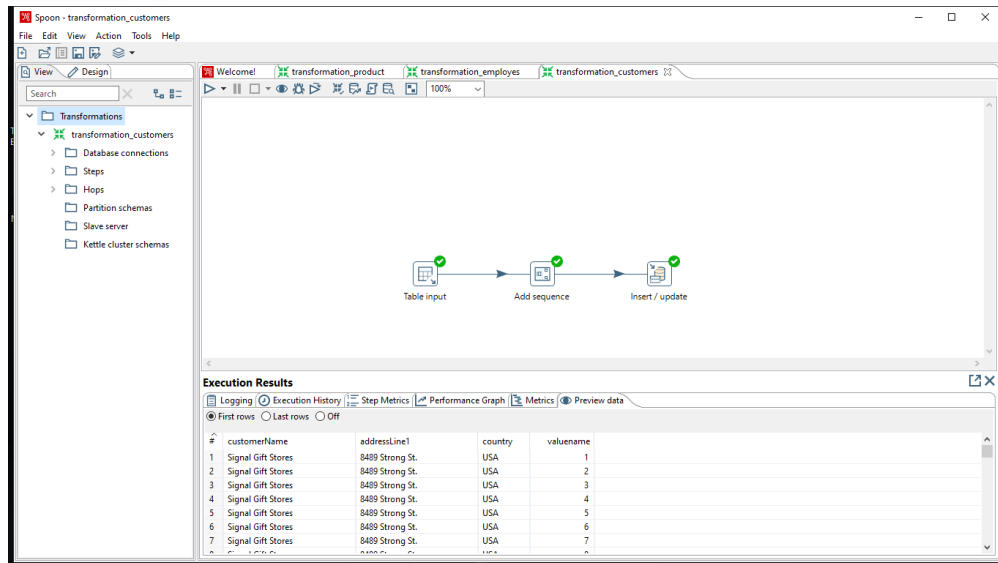
#	productName	quantityOrdered	priceEach	valuenam
1	18th century schooner	43	117.97	1
2	18th Century Vintage Horse Carriage	25	86.92	2
3	1900s Vintage Bi-Plane	49	65.77	3
4	1900s Vintage Tri-Plane	26	71.0	4
5	1903 Ford Model A	22	136.59	5
6	1904 Buick Runabout	41	75.48	6
7	1911 Ford Town Car	50	55.09	7
8	1912 Ford Model T Delivery Wagon	44	73.46	8
9	1913 Ford Model T Speedster	27	92.19	9
10	1917 Grand Touring Sedan	30	136.0	10
11	1917 Maxwell Touring Car	46	86.31	11
12	1926 Ford Fire Engine	22	58.34	12
13	1928 British Royal Navy Airplane	28	107.23	13
14	1928 Ford Phaeton Deluxe	33	65.35	14
15	1928 Mercedes-Benz SSK	26	167.06	15
16	1930 Buick Marquette Phaeton	39	35.78	16
17	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	17
18	1932 Model A Ford J-Coupe	25	108.06	18
19	1934 Ford V8 Coupe	35	61.84	19
20	1936 Chrysler Airflow	25	88.62	20
21	1936 Harley Davidson El Knucklehead	29	52.7	21
22	1936 Mercedes Benz 500k Roadster	49	35.29	22
23	1936 Mercedes-Benz 500K Special Roadster	41	43.13	23
24	1937 Horch 930V Limousine	31	55.89	24
25	1937 Lincoln Berline	39	95.55	25
26	1938 Cadillac V-16 Presidential Limousine	46	44.35	26
27	1939 Cadillac Limousine	41	40.75	27



The screenshot shows the phpMyAdmin interface. The 'Table: transformation_product' is selected, and the data is displayed in a table. The table has four columns: 'productName', 'quantityOrdered', 'priceEach', and 'valuenam'. The data is listed in 24 rows, numbered 1 through 24. The interface also shows a sidebar with a tree view of the database structure, including 'classicmodels', 'customers', 'employees', 'offices', 'orderdetails', 'orders', 'payments', 'productlines', 'products', 'transformation_customer', 'transformation_employees', and 'transformation_product'.

productName	quantityOrdered	priceEach	valuenam
18th century schooner	43	117.97	1
18th Century Vintage Horse Carriage	25	86.92	2
1900s Vintage Bi-Plane	49	65.77	3
1900s Vintage Tri-Plane	26	71	4
1903 Ford Model A	22	136.59	5
1904 Buick Runabout	41	75.48	6
1911 Ford Town Car	50	55.09	7
1912 Ford Model T Delivery Wagon	44	73.46	8
1913 Ford Model T Speedster	27	92.19	9
1917 Grand Touring Sedan	30	136	10
1917 Maxwell Touring Car	46	86.31	11
1926 Ford Fire Engine	22	58.34	12
1928 British Royal Navy Airplane	28	107.23	13
1928 Ford Phaeton Deluxe	33	65.35	14
1928 Mercedes-Benz SSK	26	167.06	15
1930 Buick Marquette Phaeton	39	35.78	16
1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	17
1932 Model A Ford J-Coupe	25	108.06	18
1934 Ford V8 Coupe	35	61.84	19
1936 Chrysler Airflow	25	88.62	20
1936 Harley Davidson El Knucklehead	29	52.7	21
1936 Mercedes Benz 500k Roadster	49	35.29	22
1936 Mercedes-Benz 500K Special Roadster	41	43.13	23
Konsol, 930V Limousine	31	55.89	24

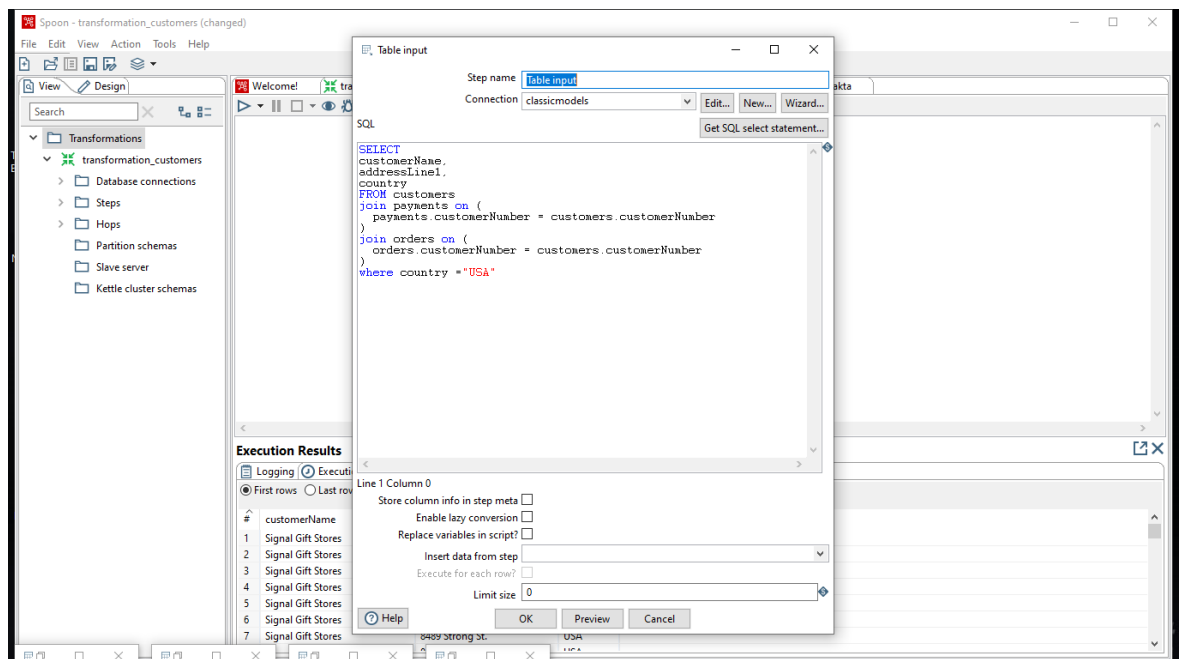
c) Transformation_customers



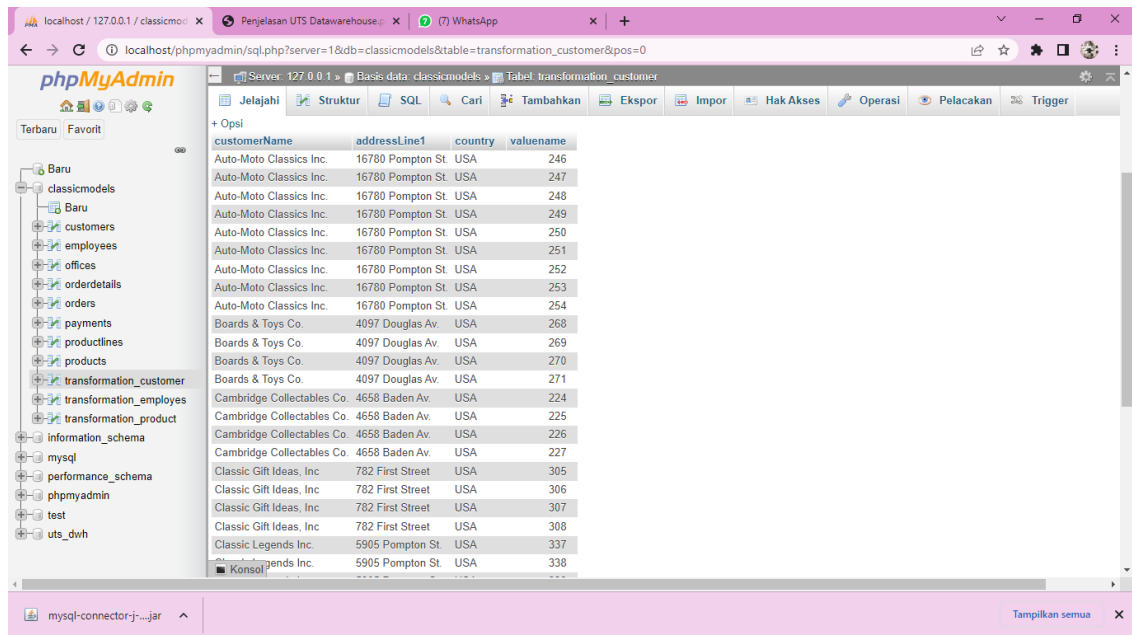
Transformation_customers dibuat untuk menambahkan table customers yang ada didalam database. Disini saya menggunakan 3 tools yaitu table input, add sequence dan insert/update.

Query transformation:

Disini saya membuat query dari tabel customer yang berisi atribut nama, alamat, dan negara USA.

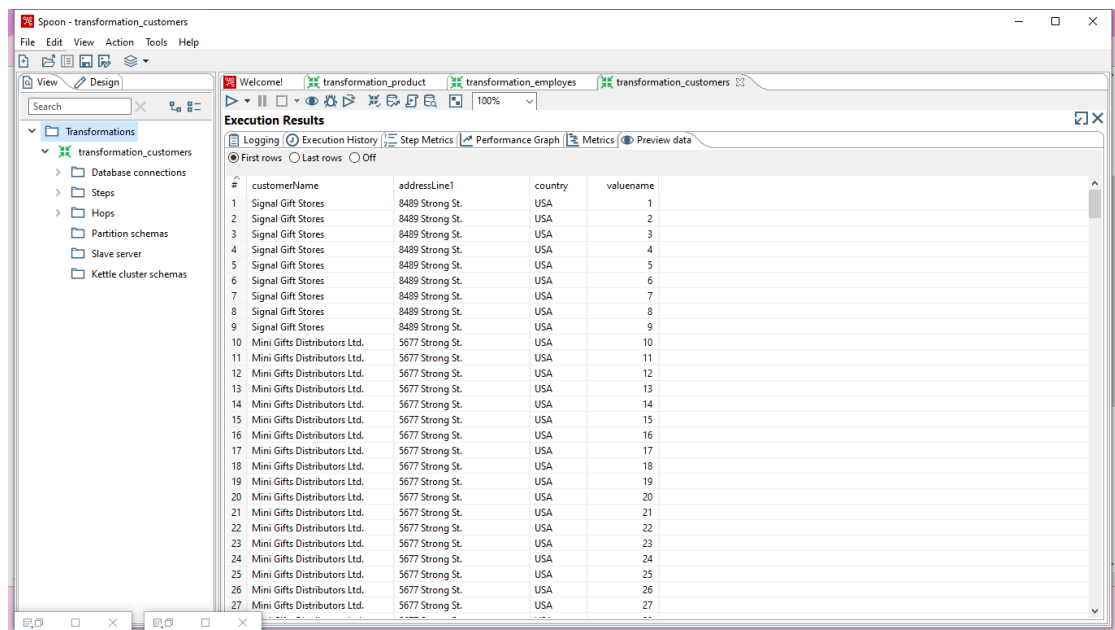


Hasil transformasi:



The screenshot shows the phpMyAdmin interface with the 'transformation_customer' table selected. The table contains 27 rows of data. The left sidebar shows the database structure, and the top navigation bar includes options like 'Struktur', 'SQL', 'Cari', 'Tambahkan', 'Ekspor', 'Impor', 'Hak Akses', 'Operasi', 'Pelacakan', and 'Trigger'.

customerName	addressLine1	country	valuenam
Auto-Moto Classics Inc.	16780 Pompton St.	USA	246
Auto-Moto Classics Inc.	16780 Pompton St.	USA	247
Auto-Moto Classics Inc.	16780 Pompton St.	USA	248
Auto-Moto Classics Inc.	16780 Pompton St.	USA	249
Auto-Moto Classics Inc.	16780 Pompton St.	USA	250
Auto-Moto Classics Inc.	16780 Pompton St.	USA	251
Auto-Moto Classics Inc.	16780 Pompton St.	USA	252
Auto-Moto Classics Inc.	16780 Pompton St.	USA	253
Auto-Moto Classics Inc.	16780 Pompton St.	USA	254
Boards & Toys Co.	4097 Douglas Av.	USA	268
Boards & Toys Co.	4097 Douglas Av.	USA	269
Boards & Toys Co.	4097 Douglas Av.	USA	270
Boards & Toys Co.	4097 Douglas Av.	USA	271
Cambridge Collectables Co.	4658 Baden Av.	USA	224
Cambridge Collectables Co.	4658 Baden Av.	USA	225
Cambridge Collectables Co.	4658 Baden Av.	USA	226
Cambridge Collectables Co.	4658 Baden Av.	USA	227
Classic Gift Ideas, Inc.	782 First Street	USA	305
Classic Gift Ideas, Inc.	782 First Street	USA	306
Classic Gift Ideas, Inc.	782 First Street	USA	307
Classic Gift Ideas, Inc.	782 First Street	USA	308
Classic Legends Inc.	5905 Pompton St.	USA	337
Classic Legends Inc.	5905 Pompton St.	USA	338



The screenshot shows the Spoon - transformation_customers window. The 'Execution Results' tab is active, displaying a table with 27 rows of data. The table has columns for 'customerName', 'addressLine1', 'country', and 'valuenam'. The data is organized into two groups: 'Signal Gift Stores' and 'Mini Gifts Distributors Ltd.'.

#	customerName	addressLine1	country	valuenam
1	Signal Gift Stores	8489 Strong St.	USA	1
2	Signal Gift Stores	8489 Strong St.	USA	2
3	Signal Gift Stores	8489 Strong St.	USA	3
4	Signal Gift Stores	8489 Strong St.	USA	4
5	Signal Gift Stores	8489 Strong St.	USA	5
6	Signal Gift Stores	8489 Strong St.	USA	6
7	Signal Gift Stores	8489 Strong St.	USA	7
8	Signal Gift Stores	8489 Strong St.	USA	8
9	Signal Gift Stores	8489 Strong St.	USA	9
10	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	10
11	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	11
12	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	12
13	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	13
14	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	14
15	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	15
16	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	16
17	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	17
18	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	18
19	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	19
20	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	20
21	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	21
22	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	22
23	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	23
24	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	24
25	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	25
26	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	26
27	Mini Gifts Distributors Ltd.	5677 Strong St.	USA	27