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-- NIM : 23241066

-- Kelas : PTI 4 B

-- Modul : 2

-- membuat database PTImart

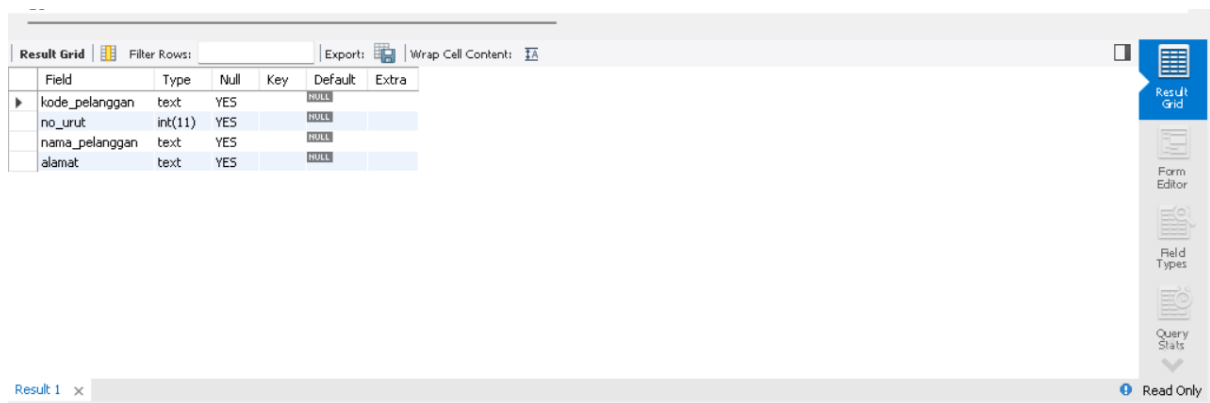
CREATE DATABASE PTImart;

-- menggunakan database

USE PTImart;

-- cek kolom dalam setiap tabel

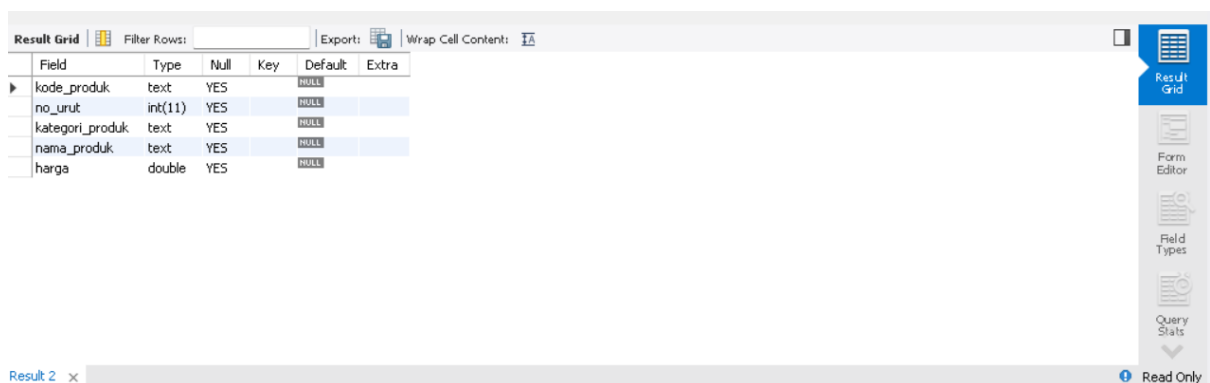
DESCRIBE ms\_pelanggan;



The screenshot shows the 'Result Grid' window in SQL Server Enterprise Manager. It displays the structure of the 'ms\_pelanggan' table. The table has five columns: 'kode\_pelanggan' (text), 'no\_urut' (int(11)), 'nama\_pelanggan' (text), and 'alamat' (text). All columns are nullable and are not part of a primary key. The 'Default' column shows 'NULL' for all fields. The 'Extra' column is empty. The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox. On the right side, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar indicates 'Result 1' and 'Read Only'.

Field	Type	Null	Key	Default	Extra
kode_pelanggan	text	YES		NULL	
no_urut	int(11)	YES		NULL	
nama_pelanggan	text	YES		NULL	
alamat	text	YES		NULL	

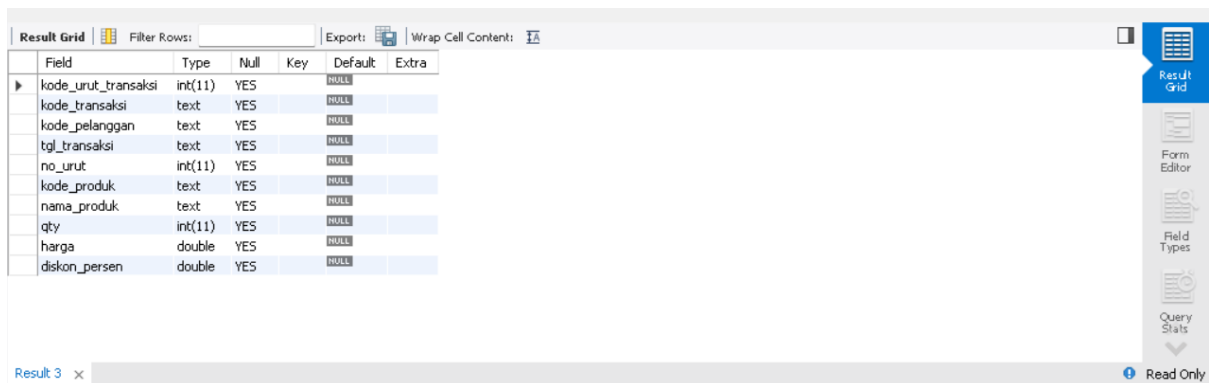
DESCRIBE ms\_produk;



The screenshot shows the 'Result Grid' window in SQL Server Enterprise Manager. It displays the structure of the 'ms\_produk' table. The table has five columns: 'kode\_produk' (text), 'no\_urut' (int(11)), 'kategori\_produk' (text), 'nama\_produk' (text), and 'harga' (double). All columns are nullable. 'kode\_produk' and 'no\_urut' are part of a primary key. The 'Default' column shows 'NULL' for all fields. The 'Extra' column is empty. The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox. On the right side, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar indicates 'Result 2' and 'Read Only'.

Field	Type	Null	Key	Default	Extra
kode_produk	text	YES		NULL	
no_urut	int(11)	YES		NULL	
kategori_produk	text	YES		NULL	
nama_produk	text	YES		NULL	
harga	double	YES		NULL	

DESCRIBE tr\_penjualan;



The screenshot shows a 'Result Grid' window in a database application. The window title is 'Result 3'. The table structure is displayed with columns: Field, Type, Null, Key, Default, and Extra. The table 'tr\_penjualan' has the following fields:

Field	Type	Null	Key	Default	Extra
kode_urut_transaksi	int(11)	YES		NULL	
kode_transaksi	text	YES		NULL	
kode_pelanggan	text	YES		NULL	
tgl_transaksi	text	YES		NULL	
no_urut	int(11)	YES		NULL	
kode_produk	text	YES		NULL	
nama_produk	text	YES		NULL	
qty	int(11)	YES		NULL	
harga	double	YES		NULL	
diskon_persen	double	YES		NULL	

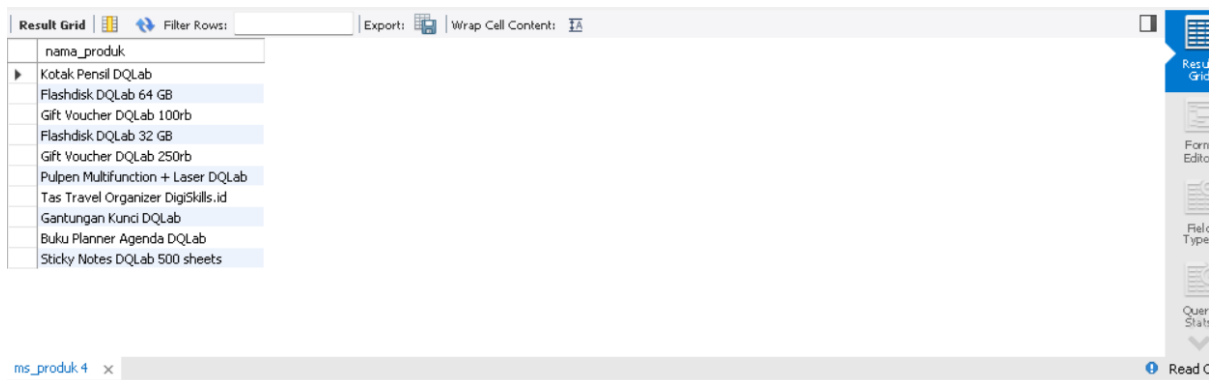
On the right side of the window, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar shows 'Read Only'.

-- SELECT

-- menggunakan select untuk 1 tabel

-- mengambil kolom nama produk dari tabel produk

SELECT nama\_produk FROM ms\_produk;



The screenshot shows a 'Result Grid' window in a database application. The window title is 'ms\_produk 4'. The query results are displayed in a single column named 'nama\_produk'. The results are:

nama_produk
Kotak Pensil DQLab
Flashdisk DQLab 64 GB
Gift Voucher DQLab 100rb
Flashdisk DQLab 32 GB
Gift Voucher DQLab 250rb
Pulpen Multifunction + Laser DQLab
Tas Travel Organizer DigiSkills.id
Gantungan Kunci DQLab
Buku Planner Agenda DQLab
Sticky Notes DQLab 500 sheets

On the right side of the window, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar shows 'Read Only'.

-- mengambil lebih dari 1 kolom dari 1 tabel

SELECT nama\_produk, harga FROM ms\_produk;



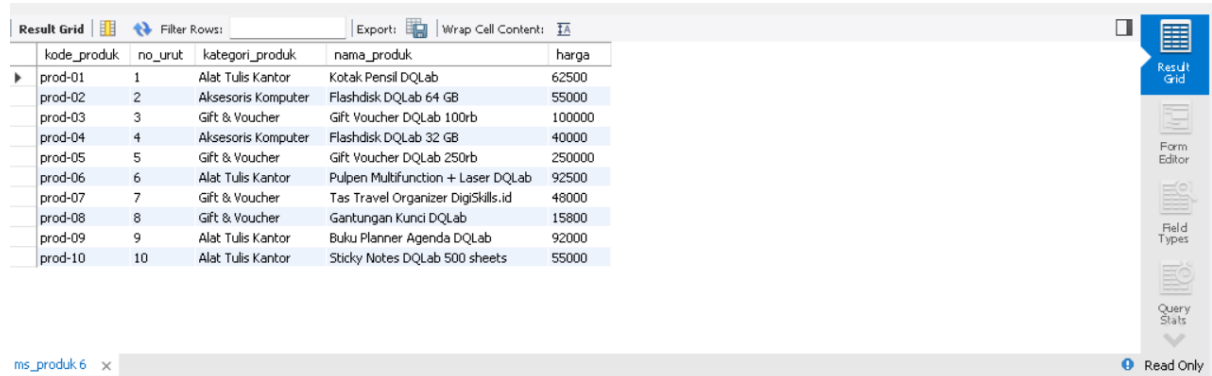
The screenshot shows a 'Result Grid' window in a database application. The window title is 'ms\_produk 5'. The query results are displayed in two columns: 'nama\_produk' and 'harga'. The results are:

nama_produk	harga
Kotak Pensil DQLab	62500
Flashdisk DQLab 64 GB	55000
Gift Voucher DQLab 100rb	100000
Flashdisk DQLab 32 GB	40000
Gift Voucher DQLab 250rb	250000
Pulpen Multifunction + Laser DQLab	92500
Tas Travel Organizer DigiSkills.id	48000
Gantungan Kunci DQLab	15800
Buku Planner Agenda DQLab	92000
Sticky Notes DQLab 500 sheets	55000

On the right side of the window, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar shows 'Read Only'.

-- mengambil semua kolom dari 1 tabel

```
SELECT * FROM ms_produk;
```



kode_produk	no_urut	kategori_produk	nama_produk	harga
prod-01	1	Alat Tulis Kantor	Kotak Pensil DQLab	62500
prod-02	2	Aksesori Komputer	Flashdisk DQLab 64 GB	55000
prod-03	3	Gift & Voucher	Gift Voucher DQLab 100rb	100000
prod-04	4	Aksesori Komputer	Flashdisk DQLab 32 GB	40000
prod-05	5	Gift & Voucher	Gift Voucher DQLab 250rb	250000
prod-06	6	Alat Tulis Kantor	Pulpen Multifunction + Laser DQLab	92500
prod-07	7	Gift & Voucher	Tas Travel Organizer DigiSkills.id	48000
prod-08	8	Gift & Voucher	Gantungan Kunci DQLab	15800
prod-09	9	Alat Tulis Kantor	Buku Planner Agenda DQLab	92000
prod-10	10	Alat Tulis Kantor	Sticky Notes DQLab 500 sheets	55000

-- LATIHAN

-- mengambil kode produk dan nama produk dari tabel produk

-- mengambil seluruh kolom dari tabel penjualan

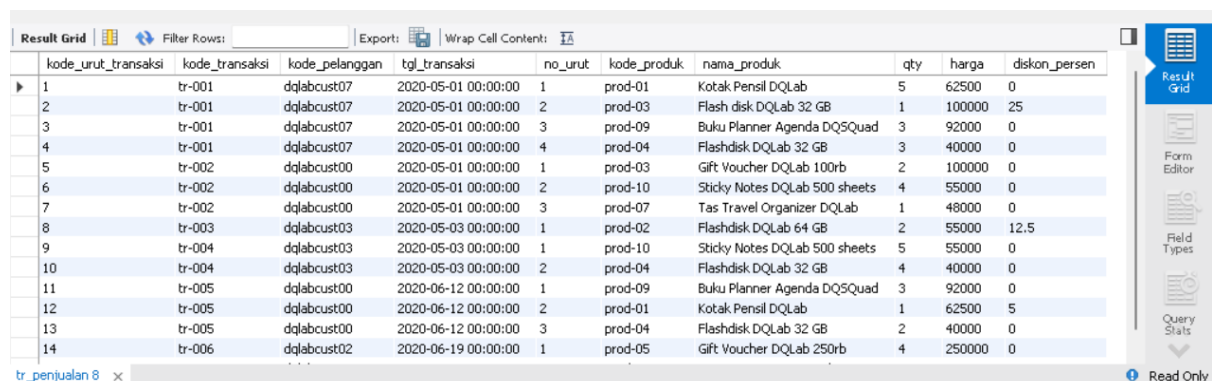
-- JAWABAN

```
SELECT kode_produk, nama_produk FROM ms_produk;
```



kode_produk	nama_produk
prod-01	Kotak Pensil DQLab
prod-02	Flashdisk DQLab 64 GB
prod-03	Gift Voucher DQLab 100rb
prod-04	Flashdisk DQLab 32 GB
prod-05	Gift Voucher DQLab 250rb
prod-06	Pulpen Multifunction + Laser DQLab
prod-07	Tas Travel Organizer DigiSkills.id
prod-08	Gantungan Kunci DQLab
prod-09	Buku Planner Agenda DQLab
prod-10	Sticky Notes DQLab 500 sheets

```
SELECT * FROM tr_penjualan;
```



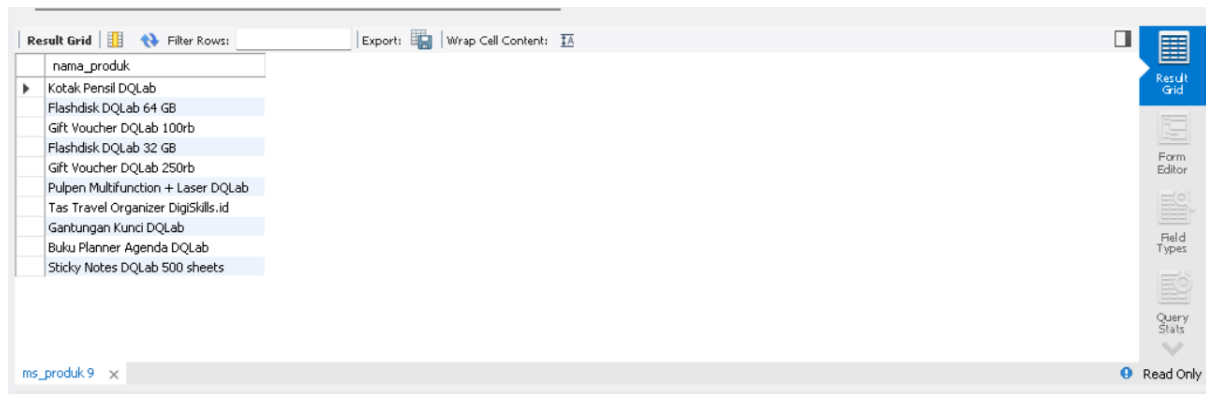
kode_urut_transaksi	kode_transaksi	kode_pelanggan	tgl_transaksi	no_urut	kode_produk	nama_produk	qty	harga	diskon_persen
1	tr-001	dqlabcust07	2020-05-01 00:00:00	1	prod-01	Kotak Pensil DQLab	5	62500	0
2	tr-001	dqlabcust07	2020-05-01 00:00:00	2	prod-03	Flash disk DQLab 32 GB	1	100000	25
3	tr-001	dqlabcust07	2020-05-01 00:00:00	3	prod-09	Buku Planner Agenda DQSQquad	3	92000	0
4	tr-001	dqlabcust07	2020-05-01 00:00:00	4	prod-04	Flashdisk DQLab 32 GB	3	40000	0
5	tr-002	dqlabcust00	2020-05-01 00:00:00	1	prod-03	Gift Voucher DQLab 100rb	2	100000	0
6	tr-002	dqlabcust00	2020-05-01 00:00:00	2	prod-10	Sticky Notes DQLab 500 sheets	4	55000	0
7	tr-002	dqlabcust00	2020-05-01 00:00:00	3	prod-07	Tas Travel Organizer DQLab	1	48000	0
8	tr-003	dqlabcust03	2020-05-03 00:00:00	1	prod-02	Flashdisk DQLab 64 GB	2	55000	12.5
9	tr-004	dqlabcust03	2020-05-03 00:00:00	1	prod-10	Sticky Notes DQLab 500 sheets	5	55000	0
10	tr-004	dqlabcust03	2020-05-03 00:00:00	2	prod-04	Flashdisk DQLab 32 GB	4	40000	0
11	tr-005	dqlabcust00	2020-06-12 00:00:00	1	prod-09	Buku Planner Agenda DQSQquad	3	92000	0
12	tr-005	dqlabcust00	2020-06-12 00:00:00	2	prod-01	Kotak Pensil DQLab	1	62500	5
13	tr-005	dqlabcust00	2020-06-12 00:00:00	3	prod-04	Flashdisk DQLab 32 GB	2	40000	0
14	tr-006	dqlabcust02	2020-06-19 00:00:00	1	prod-05	Gift Voucher DQLab 250rb	4	250000	0

-- PREFIX dan ALIAS

-- prefic adalah objek database yang hirarkinya lebih tinggi

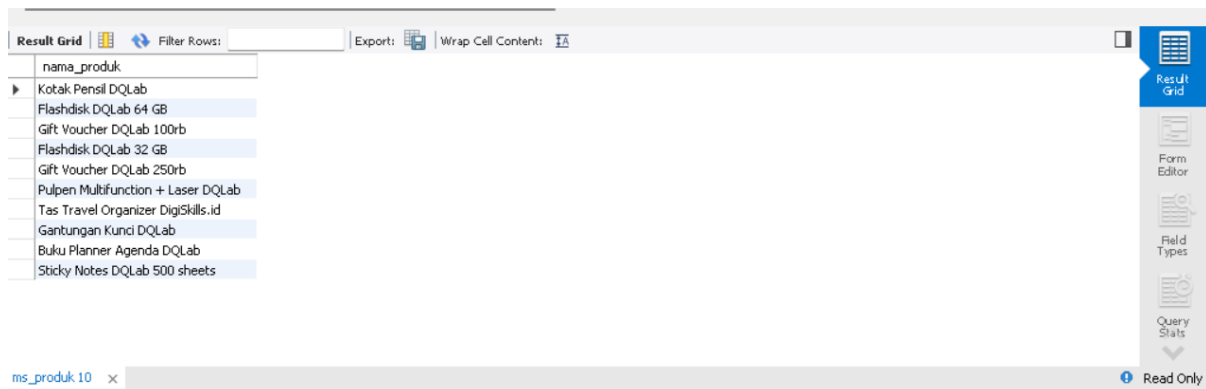
-- menggunakan prefix nama tabel untuk kolom nama produk dari tabel produk

```
SELECT ms_produk.nama_produk FROM ms_produk;
```



-- menggunakan nama databaase dengan tabel sebagai prfix untuk kolom nama\_produk

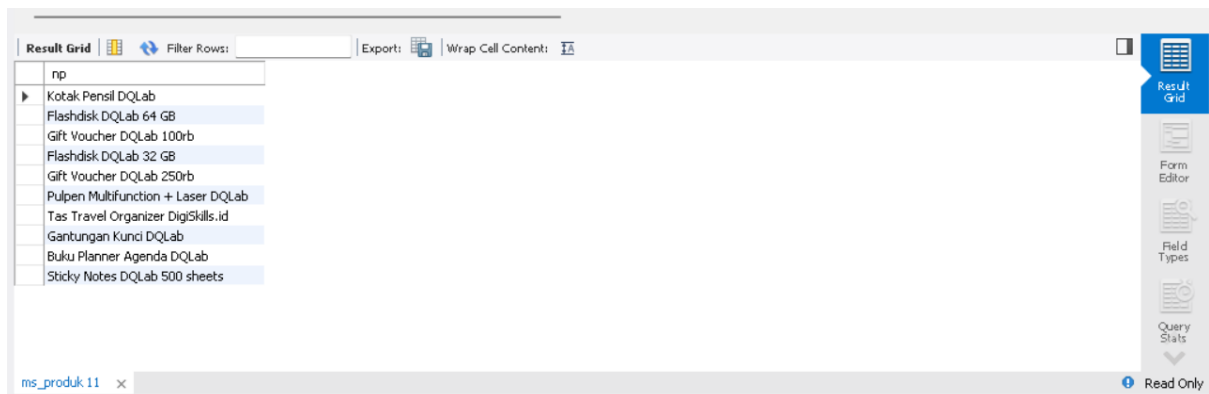
```
SELECT PTImart.ms_produk.nama_produk FROM ms_produk;
```



-- Alias nama sementara untuk objek database

-- mengganti sementara kolom nama\_produk dengan ALIAS

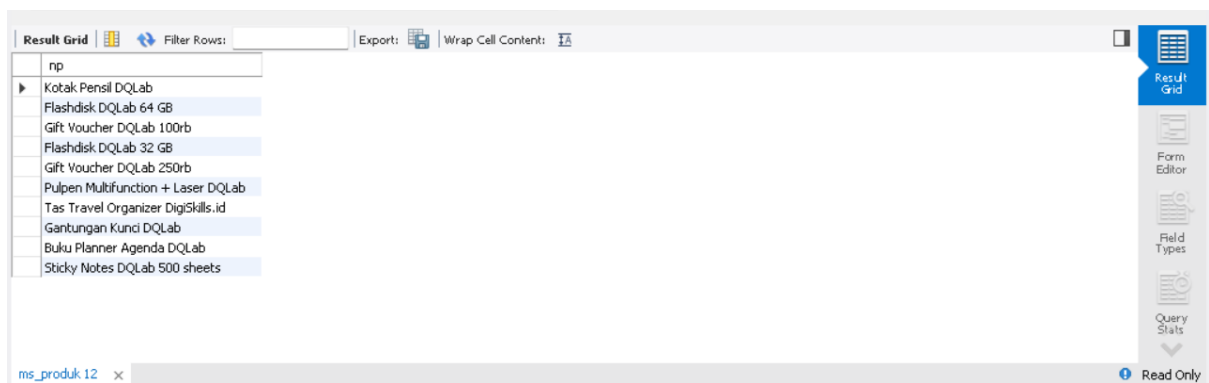
```
SELECT nama_produk AS np FROM ms_produk;
```



np
Kotak Pensil DQLab
Flashdisk DQLab 64 GB
Gift Voucher DQLab 100rb
Flashdisk DQLab 32 GB
Gift Voucher DQLab 250rb
Pulpen Multifunction + Laser DQLab
Tas Travel Organizer DigiSkills.id
Gantungan Kunci DQLab
Buku Planner Agenda DQLab
Sticky Notes DQLab 500 sheets

ms\_produk 11 x Read Only

```
SELECT nama_produk np FROM ms_produk;
```

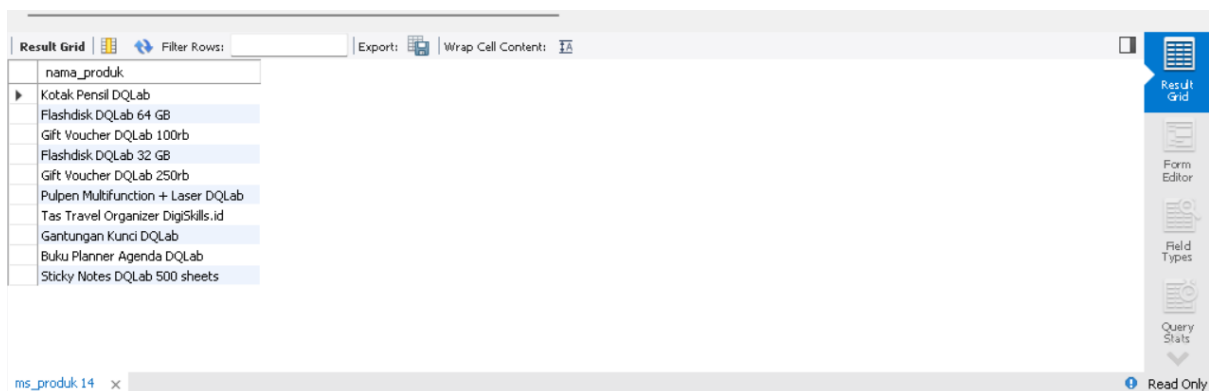


np
Kotak Pensil DQLab
Flashdisk DQLab 64 GB
Gift Voucher DQLab 100rb
Flashdisk DQLab 32 GB
Gift Voucher DQLab 250rb
Pulpen Multifunction + Laser DQLab
Tas Travel Organizer DigiSkills.id
Gantungan Kunci DQLab
Buku Planner Agenda DQLab
Sticky Notes DQLab 500 sheets

ms\_produk 12 x Read Only

-- mengganti sementara tabel dengan Alias

```
SELECT nama_produk FROM ms_produk AS msp;
```

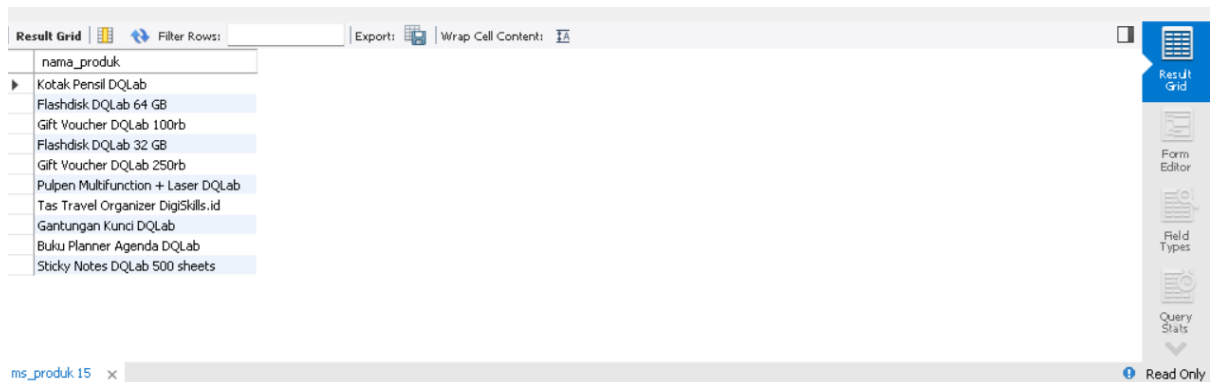


nama_produk
Kotak Pensil DQLab
Flashdisk DQLab 64 GB
Gift Voucher DQLab 100rb
Flashdisk DQLab 32 GB
Gift Voucher DQLab 250rb
Pulpen Multifunction + Laser DQLab
Tas Travel Organizer DigiSkills.id
Gantungan Kunci DQLab
Buku Planner Agenda DQLab
Sticky Notes DQLab 500 sheets

ms\_produk 14 x Read Only

-- kombinasikan prefix dan alias

SELECT msp.nama\_produk FROM ms\_produk AS msp;



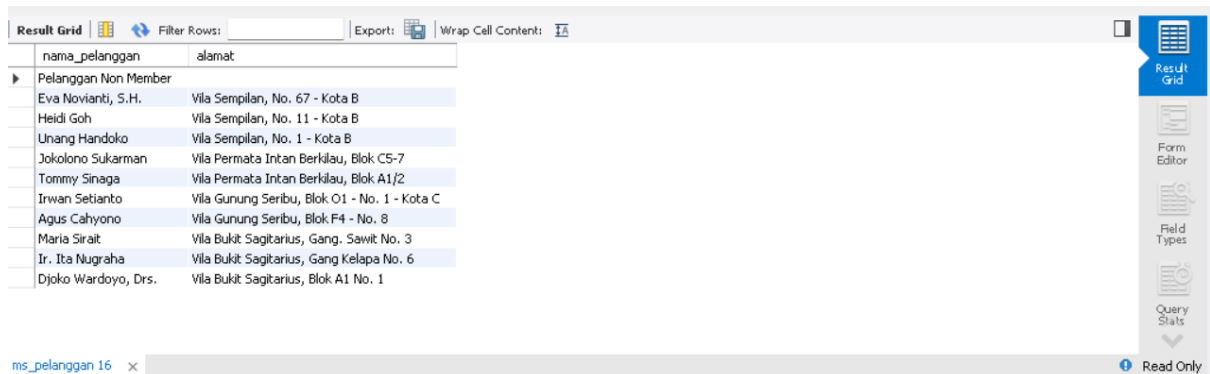
The screenshot shows a database query result grid. The top bar includes a 'Result Grid' tab, a 'Filter Rows' input field, and buttons for 'Export' and 'Wrap Cell Content'. The main area displays a table with one column, 'nama\_produk', containing a list of products. A right-hand sidebar contains icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar shows the table name 'ms\_produk 15' and a 'Read Only' indicator.

nama_produk
Kotak Pensil DQLab
Flashdisk DQLab 64 GB
Gift Voucher DQLab 100rb
Flashdisk DQLab 32 GB
Gift Voucher DQLab 250rb
Pulpen Multifunction + Laser DQLab
Tas Travel Organizer DigiSkills.id
Gantungan Kunci DQLab
Buku Planner Agenda DQLab
Sticky Notes DQLab 500 sheets

-- CASE 1

-- nama list customer dan alamatnya

SELECT nama\_pelanggan,alamat FROM ms\_pelanggan;



The screenshot shows a database query result grid. The top bar includes a 'Result Grid' tab, a 'Filter Rows' input field, and buttons for 'Export' and 'Wrap Cell Content'. The main area displays a table with two columns, 'nama\_pelanggan' and 'alamat', containing a list of customers and their addresses. A right-hand sidebar contains icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'. The bottom status bar shows the table name 'ms\_pelanggan 16' and a 'Read Only' indicator.

nama_pelanggan	alamat
Pelanggan Non Member	
Eva Novianti, S.H.	Vila Sempilan, No. 67 - Kota B
Heidi Goh	Vila Sempilan, No. 11 - Kota B
Unang Handoko	Vila Sempilan, No. 1 - Kota B
Jokolono Sukarman	Vila Permata Intan Berkilau, Blok CS-7
Tommy Sinaga	Vila Permata Intan Berkilau, Blok A1/2
Irwan Setianto	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
Maria Sirait	Vila Bukit Sagitarus, Gang. Sawit No. 3
Ir. Ita Nugraha	Vila Bukit Sagitarus, Gang Kelapa No. 6
Djoko Wardoyo, Drs.	Vila Bukit Sagitarus, Blok A1 No. 1

-- CASE 2

-- nama produk dan harga dari semua tabel

SELECT nama\_produk, harga FROM ms\_produk;

nama_produk	harga
Kotak Pensil DQLab	62500
Flashdisk DQLab 64 GB	55000
Gift Voucher DQLab 100rb	100000
Flashdisk DQLab 32 GB	40000
Gift Voucher DQLab 250rb	250000
Pulpen Multifunction + Laser DQLab	92500
Tas Travel Organizer DigiSkills.id	48000
Gantungan Kunci DQLab	15800
Buku Planner Agenda DQLab	92000
Sticky Notes DQLab 500 sheets	55000

SELECT nama\_produk, harga FROM tr\_penjualan;

nama_produk	harga
Kotak Pensil DQLab	62500
Flash disk DQLab 32 GB	100000
Buku Planner Agenda DQSQquad	92000
Flashdisk DQLab 32 GB	40000
Gift Voucher DQLab 100rb	100000
Sticky Notes DQLab 500 sheets	55000
Tas Travel Organizer DQLab	48000
Flashdisk DQLab 64 GB	55000
Sticky Notes DQLab 500 sheets	55000
Flashdisk DQLab 32 GB	40000
Buku Planner Agenda DQSQquad	92000
Kotak Pensil DQLab	62500
Flashdisk DQLab 32 GB	40000
Gift Voucher DQLab 250rb	250000