

LAPORAN HASIL MODUL 4

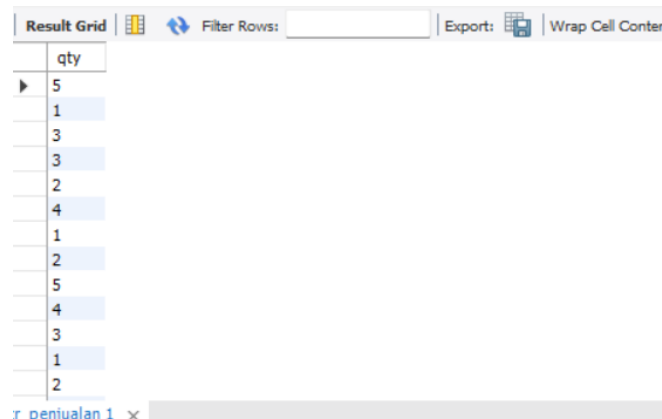
PART 2

1. Praktek 7

Fungsi Agregasi

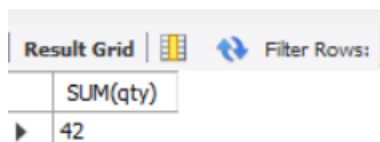
Digunakan Untuk Mengolah Beberapa Baris/Row Data Untuk Menghasilkan Nilai Baru

```
SELECT qty FROM tr_penjualan;
```



qty
5
1
3
3
2
4
1
2
5
4
3
1
2

```
SELECT SUM(qty) FROM tr_penjualan;
```

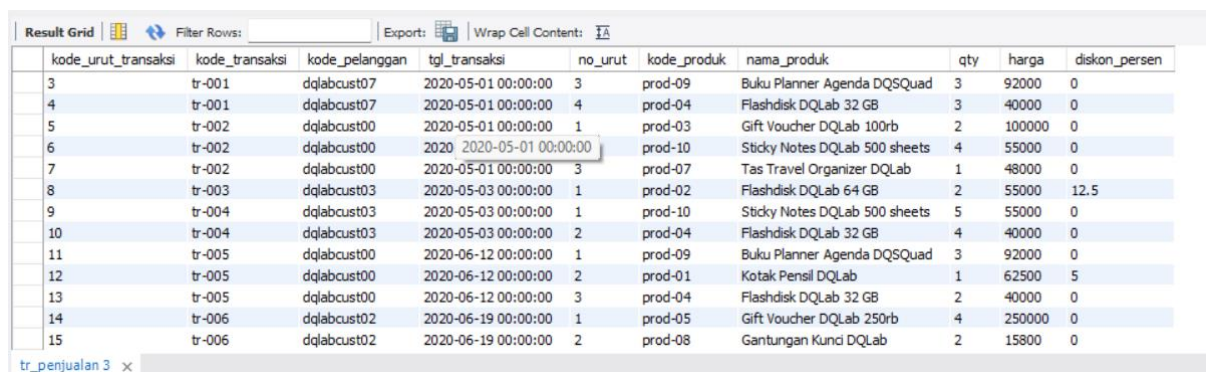


SUM(qty)
42

2. Praktek 8

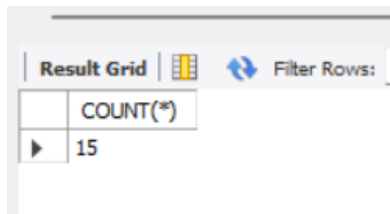
Hitung Seluruh Baris Pada Tabel Penjualan

```
SELECT * FROM tr_penjualan;
```



kode_urut_transaksi	kode_transaksi	kode_pelanggan	tgl_transaksi	no_urut	kode_produk	nama_produk	qty	harga	diskon_persen
3	tr-001	dqlabcust07	2020-05-01 00:00:00	3	prod-09	Buku Planner Agenda DQSQuad	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	1	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 DQSQuad	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
15	tr-006	dqlabcust02	2020-06-19 00:00:00	2	prod-08	Gantungan Kunci DQLab	2	15800	0

```
SELECT COUNT(*) FROM tr_penjualan;
```



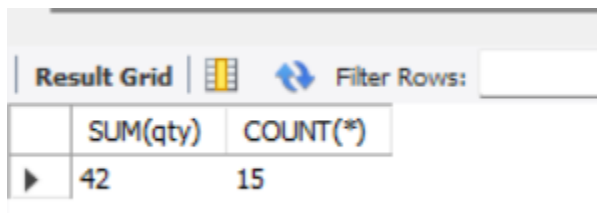
The screenshot shows a database interface with a 'Result Grid' tab. The grid contains one column labeled 'COUNT(*)' and one row with the value '15'. Above the grid, there are icons for 'Filter Rows' and a refresh button.

COUNT(*)
15

3. Praktek 9

Menggunakan 2 Fungsi Agregasi Dalam Satu Query Sql

```
SELECT SUM(qty), COUNT(*) FROM tr_penjualan;
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains two columns: 'SUM(qty)' and 'COUNT(*)'. The first row shows the values '42' and '15' respectively. Above the grid, there are icons for 'Filter Rows' and a refresh button.

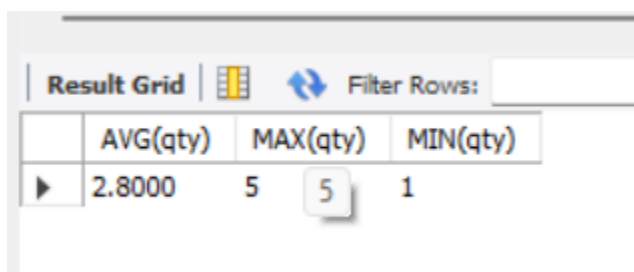
SUM(qty)	COUNT(*)
42	15

4. Praktek 10

Menghitung Rata-Rata Pejualan Penjualan Tertinggi Per Transaksi Dan Penjualan Terendah Per Transaksi

```
SELECT AVG(qty), MAX(qty), MIN(qty)
```

```
FROM tr_penjualan;
```



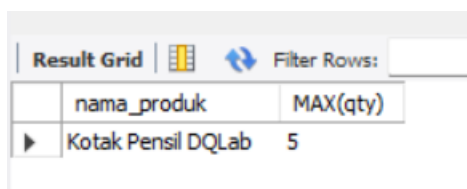
The screenshot shows a database interface with a 'Result Grid' tab. The grid contains three columns: 'AVG(qty)', 'MAX(qty)', and 'MIN(qty)'. The first row shows the values '2.8000', '5', and '1' respectively. Above the grid, there are icons for 'Filter Rows' and a refresh button.

AVG(qty)	MAX(qty)	MIN(qty)
2.8000	5	1

5. Praktek 11

Mengkombinasikan Fungsi Agregasi Dengan Kolom Tertentu (Nama Produk, Kolom Tgl Transaksi)

```
SELECT nama_produk, MAX(qty) FROM tr_penjualan;
```



The screenshot shows a database interface with a 'Result Grid' tab. The grid contains two columns: 'nama_produk' and 'MAX(qty)'. The first row shows the values 'Kotak Pensil DQLab' and '5' respectively. Above the grid, there are icons for 'Filter Rows' and a refresh button.

nama_produk	MAX(qty)
Kotak Pensil DQLab	5

SELECT tgl_transaksi, nama_produk, MAX(qty) FROM tr_penjualan;

Result Grid Filter Rows: <input type="text"/> Export:			
	tgl_transaksi	nama_produk	MAX(qty)
▶	2020-05-01 00:00:00	Kotak Pensil DQLab	5

6. praktek 12

Count(Distinct)

Digunakan Untuk Menghitung Nilai Yang Unik Aja

Menghitung Nilai Unik Yang Ada Pada Produk Di Tabel Penjualan

SELECT COUNT(nama_produk) FROM tr_penjualan;

Result Grid Filter Rows: <input type="text"/>	
	COUNT(nama_produk)
▶	15

7. Praktek 13

Dengan Distinct

Menghitung Jumlah Nama Produk Yang Unik

SELECT COUNT(distinct nama_produk) FROM tr_penjualan;

Result Grid Filter Rows: <input type="text"/>	
	COUNT(distinct nama_produk)
▶	10

SELECT COUNT(nama_produk), COUNT(distinct nama_produk) FROM tr_penjualan;

Result Grid Filter Rows: <input type="text"/> Export		
	COUNT(nama_produk)	COUNT(distinct nama_produk)
▶	15	10

8. Praktek 14

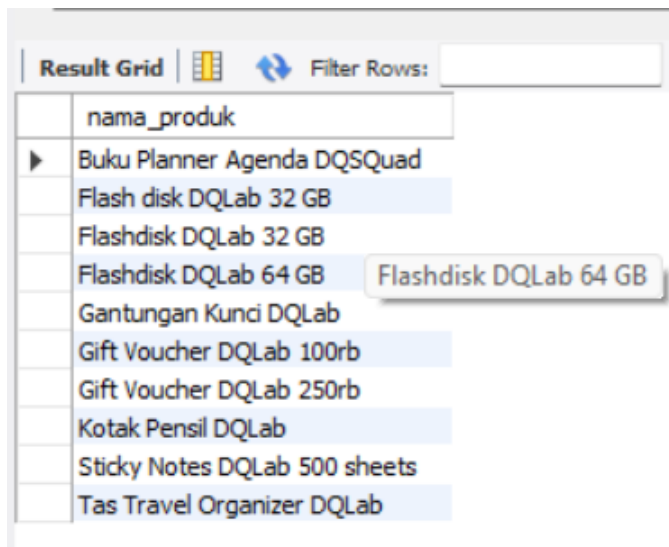
GROUP BY

Mengelompokkan Isi Data Dari Satu Atau Beberapa Kolom ,Biasanya Digabung

Dengan Fungsi Agregasi

Group By 1 Kolom

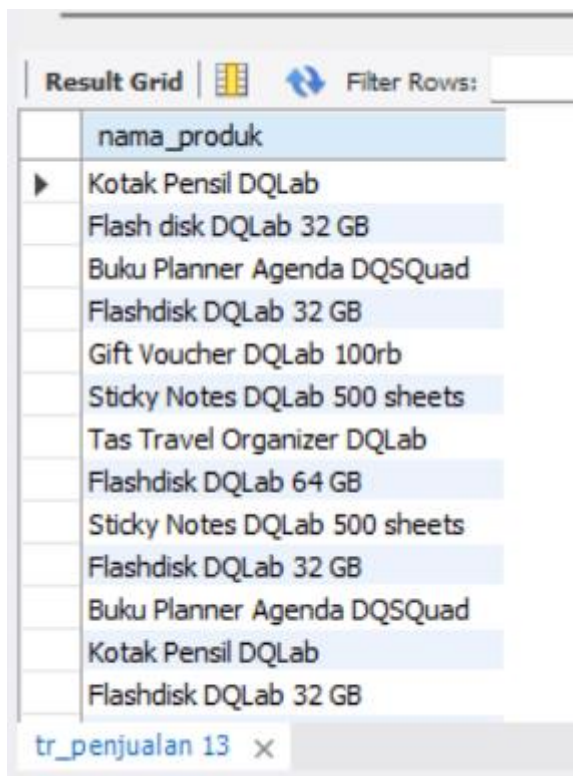
SELECT nama_produk FROM tr_penjualan GROUP BY nama_produk;



The screenshot shows a 'Result Grid' window with a 'Filter Rows' search bar. The table has one column, 'nama_produk'. The data is grouped by product name, with each group starting with a right-pointing triangle icon. The products listed are: Buku Planner Agenda DQSQuad, Flash disk DQLab 32 GB, Flashdisk DQLab 32 GB, Flashdisk DQLab 64 GB (highlighted with a tooltip), Gantungan Kunci DQLab, Gift Voucher DQLab 100rb, Gift Voucher DQLab 250rb, Kotak Pensil DQLab, Sticky Notes DQLab 500 sheets, and Tas Travel Organizer DQLab.

nama_produk
▶ Buku Planner Agenda DQSQuad
Flash disk DQLab 32 GB
Flashdisk DQLab 32 GB
Flashdisk DQLab 64 GB
Gantungan Kunci DQLab
Gift Voucher DQLab 100rb
Gift Voucher DQLab 250rb
Kotak Pensil DQLab
Sticky Notes DQLab 500 sheets
Tas Travel Organizer DQLab

SELECT nama_produk FROM tr_penjualan;



The screenshot shows a 'Result Grid' window with a 'Filter Rows' search bar. The table has one column, 'nama_produk'. The data is not grouped, showing a list of products: Kotak Pensil DQLab, Flash disk DQLab 32 GB, Buku Planner Agenda DQSQuad, Flashdisk DQLab 32 GB, Gift Voucher DQLab 100rb, Sticky Notes DQLab 500 sheets, Tas Travel Organizer DQLab, Flashdisk DQLab 64 GB, Sticky Notes DQLab 500 sheets, Flashdisk DQLab 32 GB, Buku Planner Agenda DQSQuad, Kotak Pensil DQLab, and Flashdisk DQLab 32 GB. A tab at the bottom is labeled 'tr_penjualan 13'.

nama_produk
▶ Kotak Pensil DQLab
Flash disk DQLab 32 GB
Buku Planner Agenda DQSQuad
Flashdisk DQLab 32 GB
Gift Voucher DQLab 100rb
Sticky Notes DQLab 500 sheets
Tas Travel Organizer DQLab
Flashdisk DQLab 64 GB
Sticky Notes DQLab 500 sheets
Flashdisk DQLab 32 GB
Buku Planner Agenda DQSQuad
Kotak Pensil DQLab
Flashdisk DQLab 32 GB

9. praktek 15

Mengelompokkan Data Berdasarkan Kombinasi Unik Dari Nama_Produk Dan Qty,
Lalu Menampilkan Setiap Kombinasi Tersebut.

SELECT nama_produk, qty FROM tr_penjualan

GROUP BY nama_produk, qty;

Result Grid Filter Rows: <input type="text"/> Exports:		
	nama_produk	qty
▶	Buku Planner Agenda DQSQuad	3
	Flash disk DQLab 32 GB	1
	Flashdisk DQLab 32 GB	2
	Flashdisk DQLab 32 GB	3
	Flashdisk DQLab 32 GB	4
	Flashdisk DQLab 64 GB	2
	Gantungan Kunci DQLab	2
	Gift Voucher DQLab 100rb	2
	Gift Voucher DQLab 250rb	4
	Kotak Pensil DQLab	1
	Kotak Pensil DQLab	5
	Sticky Notes DQLab 500 sheets	4
	Sticky Notes DQLab 500 sheets	5

tr_penjualan 14 x

10. praktek 16

Ambil Qty Berdasarkan Nama Produk Pengelompokan Nama Produk

```
SELECT nama_produk, SUM(qty) FROM tr_penjualan GROUP BY nama_produk;
```

Result Grid Filter Rows: <input type="text"/>		
	nama_produk	SUM(qty)
▶	Buku Planner Agenda DQSQuad	6
	Flash disk DQLab 32 GB	1
	Flashdisk DQLab 32 GB	9
	Flashdisk DQLab 64 GB	2
	Gantungan Kunci DQLab	2
	Gift Voucher DQLab 100rb	2
	Gift Voucher DQLab 250rb	4
	Kotak Pensil DQLab	6
	Sticky Notes DQLab 500 sheets	9
	Tas Travel Organizer DQLab	1

11. Praktek 17

Ambil Qty Berdasarkan Nama Produk Pengelompokan Nama Produk Urut Besar Ke Kecil

```
SELECT nama_produk, SUM(qty) FROM tr_penjualan GROUP BY nama_produk ORDER BY SUM(qty) DESC;
```

Result Grid			Filter Rows:
	nama_produk	SUM(qty)	
▶	Flashdisk DQLab 32 GB	9	
	Sticky Notes DQLab 500 sheets	9	
	Kotak Pensil DQLab	6	
	Buku Planner Agenda DQSQuad	6	
	Gift Voucher DQLab 250rb	4	
	Gift Voucher DQLab 100rb	2	
	Flashdisk DQLab 64 GB	2	
	Gantungan Kunci DQLab	2	
	Flash disk DQLab 32 GB	1	
	Tas Travel Organizer DQLab	1	

12. praktek 18

HAVING

Digunakan Sebagai Filtering Untuk Group By Dan Fungsi Agregasi
Ambil Jumlah Qty

SELECT nama_produk, SUM(qty)

FROM tr_penjualan

GROUP BY nama_produk

HAVING SUM(qty) > 2

ORDER BY SUM(qty) DESC;

Result Grid			Filter Rows:
	nama_produk	SUM(qty)	
▶	Flashdisk DQLab 32 GB	9	
	Sticky Notes DQLab 500 sheets	9	
	Kotak Pensil DQLab	6	
	Buku Planner Agenda DQSQuad	6	
	Gift Voucher DQLab 250rb	4	