

## THE DATABASE STRUCTURE.

ms_pelanggan_dqlab	
ABC kode_pelanggan	varchar(15)
123 no_urut	int
ABC nama_pelanggan	varchar(100)
ABC alamat	varchar(255)

ms_produk_dqlab	
ABC kode_produk	varchar(15)
123 no_urut	int
ABC kategori_produk	varchar(100)
ABC nama_produk	varchar(100)
123 harga	double

tr_penjualan_dqlab	
ABC kode_urut_transaksi	varchar(10)
ABC kode_transaksi	varchar(10)
ABC kode_pelanggan	varchar(15)
🕒 tgl_transaksi	datetime
123 no_urut	int
ABC kode_produk	varchar(15)
ABC nama_produk	varchar(100)
123 qty	int
123 harga	double
123 diskon_persen	double

### Question 1.

The sales team is looking for a list of names customer from the database, in the form of the customer's name and address

#### Query :

```
select nama_pelanggan, alamat from ms_pelanggan_dqlab mpd;
```

#### Output :

	ABC nama_pelanggan	ABC alamat
1	Pelanggan Non Member	[NULL]
2	Eva Novianti, S.H.	Vila Sempilan, No. 67 - Kota B
3	Heidi Goh	Vila Sempilan, No. 11 - Kota B
4	Unang Handoko	Vila Sempilan, No. 1 - Kota B
5	Jokolono Sukarman	Vila Permata Intan Berkilau, Blok C5-7
6	Tommy Sinaga	Vila Permata Intan Berkilau, Blok A1/2
7	Irwan Setianto	Vila Gunung Seribu, Blok O1 - No. 1 - Kota C
8	Agus Cahyono	Vila Gunung Seribu, Blok F4 - No. 8
9	Maria Sirait	Vila Bukit Sagitarius, Gang. Sawit No. 3
10	Ir. Ita Nugraha	Vila Bukit Sagitarius, Gang Kelapa No. 6
11	Djoko Wardoyo, Drs.	Vila Bukit Sagitarius, Blok A1 No. 1

### Question 2.

The Sales and Marketing want to see product name and price of each the product to make sales strategy to consumers based on product price

#### Query :

```
select mpd.nama_produk, mpd.harga from ms_produk_dqlab mpd;
```

### Output :

	ABC nama_produk	123 harga
1	Kotak Pensil DQLab	62,500
2	Flashdisk DQLab 64 GB	55,000
3	Gift Voucher DQLab 100rb	100,000
4	Flashdisk DQLab 32 GB	40,000
5	Gift Voucher DQLab 250rb	250,000
6	Pulpen Multifunction + Laser DQLab	92,500
7	Tas Travel Organizer DigiSkills.id	48,000
8	Gantungan Kunci DQLab	15,800
9	Buku Planner Agenda DQLab	92,000
10	Sticky Notes DQLab 500 sheets	55,000

### Question 3.

The Sales Team received complaints from customers considering the price of Keychains DQLabs with prices above 15000 are quite expensive, therefore please show them all data from ms product with DQLab 32gb flash drive priced above 15000

### Query :

```
select * from ms_produk_dqlab
where nama_produk = "Flashdisk DQLab 32 GB" and harga > 15000;
```

### Output :

	ABC kode_produk	123 no_urut	ABC kategori_produk	ABC nama_produk	123 harga
1	prod-04	4	Aksesoris Komputer	Flashdisk DQLab 32 GB	40,000

### Question 4.

The Marketing Team sees that from the existing database there are 3 products with profit the highest is:

1. 84 GB DQLab flash drive
2. DigiSkills.id Travel Organizer Bag
3. DQLab Keychain

Bring up all the data regarding the three products from our product database

### Query :

```
select * from ms_produk_dqlab mpd
where mpd.nama_produk = "84 GB DQLab flash drive" or mpd.nama_produk = "Tas Travel Organizer DigiSkills.id" or mpd.nama_produk = "Gantungan Kunci DQLab";
```

### Output :

	ABC kode_produk	123 no_urut	ABC kategori_produk	ABC nama_produk	123 harga
1	prod-07	7	Gift & Voucher	Tas Travel Organizer Di	48,000
2	prod-08	8	Gift & Voucher	Gantungan Kunci DQLab	15,800

### Question 5.

Marketing wants to see all product lists that have prices below 50000, Show all products that are under the price of 50000

### Query :

```
select * from ms_produk_dqlab mpd
where harga < 50000 order by harga desc;
```

### Output :

	ABC kode_produk	123 no_urut	ABC kategori_produk	ABC nama_produk	123 harga
1	prod-07	7	Gift & Voucher	Tas Travel Organizer Di	48,000
2	prod-04	4	Aksesoris Komputer	Flashdisk DQLab 32 GB	40,000
3	prod-08	8	Gift & Voucher	Gantungan Kunci DQLab	15,800

### Question 6.

Show the customer code, product name, quantity, price and total price all products that have been transacted, but the output requested is the total minimum price of 200,000 and sorted by total price.

### Query :

```
select kode_pelanggan , nama_produk , qty , harga , qty*harga as total
from tr_penjualan_dqlab where qty*harga >= 200000
order by qty*harga desc;
```

### Output :

	ABC kode_pelanggan	ABC nama_produk	123 qty	123 harga	123 total
1	dqlabcust02	Gift Voucher DQLab 250rb	4	250,000	1,000,000
2	dqlabcust07	Kotak Pensil DQLab	5	62,500	312,500
3	dqlabcust07	Buku Planner Agenda DQSQuad	3	92,000	276,000
4	dqlabcust00	Buku Planner Agenda DQSQuad	3	92,000	276,000
5	dqlabcust03	Sticky Notes DQLab 500 sheets	5	55,000	275,000
6	dqlabcust00	Sticky Notes DQLab 500 sheets	4	55,000	220,000
7	dqlabcust00	Gift Voucher DQLab 100rb	2	100,000	200,000

### Question 7.

Come up with the customer\_code, and the quantity of the product purchased, and the amount the price, then try to find the remainder of that quantity when divided by 3 because the marketing party wants to plot 1 marketing for 1 customer with 3 quantities maximum, so that the remaining unmonitored product quantity can be monitored of all products as the rest\_quantity column as material for further analysis

### Query :

```
select kode_pelanggan, sum(qty), sum(harga) as totalHarga, qty mod 3 as sisaQty
from tr_penjualan_dqlab
group by kode_pelanggan ;
```

### Output :

	ABC kode_pelanggan	123 sum(qty)	123 totalHarga	123 sisaQty
1	dqlabcust07	12	294,500	2
2	dqlabcust00	13	397,500	2
3	dqlabcust03	11	150,000	2
4	dqlabcust02	6	265,800	1

### Question 8.

Show the transaction code, transaction date, order number, and product code merged with the product name with the quantity equal to 5 from the existing database

### Query :

```
select kode_transaksi, tgl_transaksi, no_urut, kode_produk,
concat(kode_produk, ", ", nama_produk, ", ", qty)
from tr_penjualan_dqlab
where qty = 5;
```

### Output :

	ABC kode_transaksi	🕒 tgl_transaksi	123 no_urut	ABC kode_produk	ABC concat(kode_produk, ", ", nama_produk, ", ", qty)
1	tr-001	2020-05-01 00:00:00	1	prod-01	prod-01, Kotak Pensil DQLab,5
2	tr-004	2020-05-03 00:00:00	1	prod-10	prod-10, Sticky Notes DQLab 500 sheets,5

### Question 9.

Come up with the customer's name, name without a title, and the customer's nickname with the customer code dqlabcust01 because the customer is a customer loyalist who will be given a gift by the customer.

#### Query :

```
select nama_pelanggan, substring_index(nama_pelanggan, ",", 1) namaTanpaGelar,  
substring_index(nama_pelanggan, " ", 1) namaPanggilan  
from ms_pelanggan_dqlab where kode_pelanggan = 'dqlabcust01' ;
```

#### Output :

	nama_pelanggan	namaTanpaGelar	namaPanggilan
1	Eva Novianti, S.H.	Eva Novianti	Eva

### Question 10.

Come up with the customer's name, and the customer's initial with the customer's initial starting from the second letter and what is taken is the first 3 letters of the second letter

#### Query :

```
select nama_pelanggan , substr(nama_pelanggan, 2, 3)  
from ms_pelanggan_dqlab;
```

#### Output :

	nama_pelanggan	substr(nama_pelanggan,2,3)
1	Pelanggan Non Member	ela
2	Eva Novianti, S.H.	va
3	Heidi Goh	eid
4	Unang Handoko	nan
5	Jokolono Sukarman	oko
6	Tommy Sinaga	omm
7	Irwan Setianto	rwa
8	Agus Cahyono	gus
9	Maria Sirait	ari
10	Ir. Ita Nugraha	r.
11	Djoko Wardoyo, Drs.	jok