

[LIVE CODE 1] WMB

Warung Makan Bahari

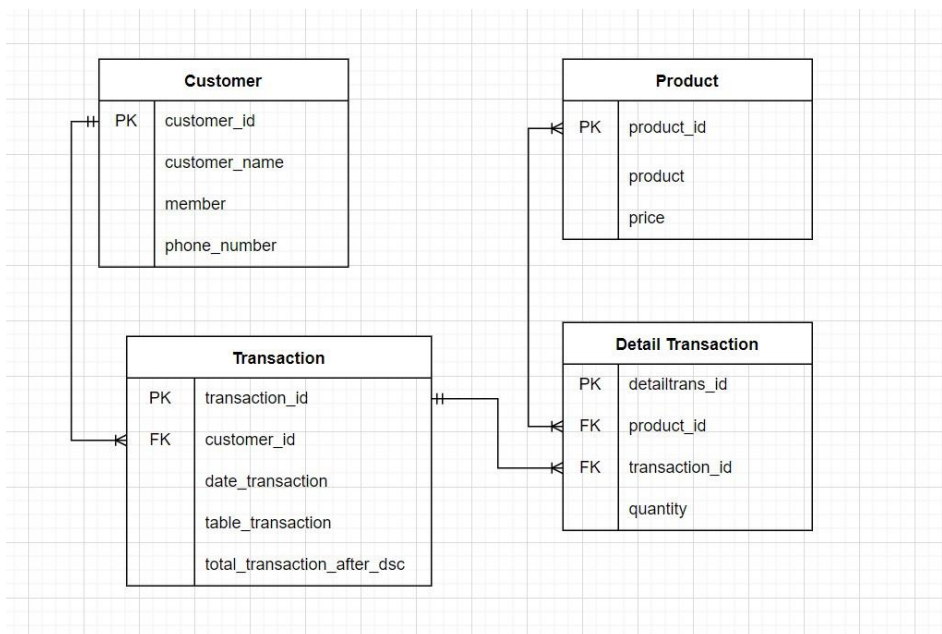
WMB adalah sebuah startup yang bergerak di bidang makanan. Aplikasi WMB sedang didevelop. Sebagai seorang Technical Leader anda diminta untuk membuat struktur database yang efisien.

Dibawah ini adalah data WMB yang belum ternormalisasi. Buatlah data dibawah ini menjadi table-table yang sudah ternormalisasi sesuai dengan materi yang telah di ajarkan Trainer sebelumnya.

Data Nota Juni 2022								
Tanggal Pembelian	Nama Pelanggan	Member	Nomor Telpn	Meja	Pembelian	Sub Total	Discount	Grand Total
1 juni 2022	Kadir	0	0877123333	T01	Nasi Putih,1,3000-Sayur Sop,1,2000-Tahu,2,4000-Es Teh Tawar,1-1500	10,500	0	10,500
1 juni 2022	Basuki	0	0812399123	T02	Nasi Putih,1,3000-Sayur Lodeh,1,2500-Tempe,2,4000-Es Teh Tawar,1-1500	11,000	0	11,000
1 juni 2022	Munaroh	1	0888901920	T01	Nasi Goreng,1, 12000-Telor Ceplok,1,5000	17,000	10	15,300
2 Juni 2022	Adinda	0	0815343411	Take Away	Nasi Goreng Spesial,1,25000	25,000	0	25,000
3 Juni 2022	Basuki	0	0812399123	T01	Nasi Putih,1,3000-Sayur Kangkung,1,1500-Telor Dadar,1,5000-Es Teh Tawar,1-1500	11,000	0	11,000
3 Juni 2022	Rozak	0	0857129823	T02	Kopi Kapal Api,1,4000-Aneka Gorengan,5,10000	14,000	0	14,000
3 Juni 2022	Devi	1	0877745983	T03	Indomie Goreng Telor,1,10000-Es Ovaltine,1,6000	16,000	10	14,400
3 Juni 2022	Qibil	0	0821834583	T02	Nasi Putih,0,5,1500-Telor Balado,1,4000-Sayur Buncis,1,3000-Aneka Gorengan,2,4000-Es Teh manis,1,1500	14,000	0	14,000
3 Juni 2022	Nurman	0	0877567211	T04	Nasi Putih,1,3000-Tempe Orek,1,3000-Sayur Tahu,1,3000-Es Teh Tawar,1-1500	10,500	0	10,500
4 Juni 2022	Basuki	0	0812399123	T01	Nasi Putih,1,4000-Sayur Lodeh,1,2500-Tempe,1,2000-Es Teh Manis,1-1500	10,000	0	10,000
4 Juni 2022	Rozak	0	0857129823	T04	Indomie Kari Ayam Telor,1,10000-Es Teh Manis,1,1500	11,500	0	11,500
5 Juni 2022	Rozak	0	0857129823	Take Away	Aneka Gorengan,15,30000	30,000	0	30,000
						180,500		177,200

Kemudian WMB membutuhkan:

1. Normalisasikan data diatas, kemudian buat ERD nya



2. Hitunglah total customer yang pernah makan di WMB

```
38 SELECT COUNT(customer_name) AS customer FROM customer;
```

Data output Messages Notifications

	customer	bigint
1		8

3. Hitunglah total transaksi di Sabtu dan Minggu

```
40 SELECT To_Char(date_transaction, 'DAY') AS name_day, * FROM transactions;
```

Data output Messages Notifications

	name_day	transaction_id	customer_id	date_transaction	table_transaction
	text	[PK] character varying (10)	character varying (10)	date	character varying (10)
1	WEDNESD...	TR001	CUS01	2022-06-01	T01
2	WEDNESD...	TR002	CUS02	2022-06-01	T02
3	WEDNESD...	TR003	CUS03	2022-06-01	T01
4	THURSDAY	TR004	CUS04	2022-06-02	Take Away
5	FRIDAY	TR005	CUS02	2022-06-03	T01
6	FRIDAY	TR006	CUS05	2022-06-03	T02
7	FRIDAY	TR007	CUS06	2022-06-03	T03
8	FRIDAY	TR008	CUS07	2022-06-03	T02
9	FRIDAY	TR009	CUS08	2022-06-03	T04
10	SATURDAY	TR010	CUS02	2022-06-04	T01
11	SATURDAY	TR011	CUS05	2022-06-04	T04
12	SUNDAY	TR012	CUS05	2022-06-05	Take Away

4. Urutkan Pelanggan berdasarkan member aktif/bukan, urutkan lagi berdasarkan namanya!

```
45 SELECT members, customer_name, customer_id FROM customer
46 ORDER BY members ASC, customer_name ASC;
```

Data output Messages Notifications

	members	customer_name	customer_id
	character varying (50)	character varying (50)	[PK] character varying (10)
1	0	Adinda	CUS04
2	0	Basuki	CUS02
3	0	Kadir	CUS01
4	0	Nurman	CUS08
5	0	Qibil	CUS07
6	0	Rozak	CUS05
7	1	Devi	CUS06
8	1	Munaroh	CUS03

5. Hitunglah berapa jumlah transaksi untuk makan ditempat dan dibungkus
 - Makan ditempat = 10 transaksi

```
44 SELECT COUNT(table_transaction) AS makan_ditempat FROM transactions
45 WHERE table_transaction <> 'Take Away';
```

Data output Messages Notifications

	makan_ditempat	bigint
1		10

- Dibungkus/bawa pulang = 2 transaksi

```

44 SELECT COUNT(table_transaction) AS dibungkus FROM transactions
45 WHERE table_transaction = 'Take Away';

```

Data output		Messages	Notifications
	dibungkus bigint		
1	2		

- Menampilkan data harga satuan makanan yang lebih dari 10,000,-

```

1 SELECT * FROM product WHERE price > 10000;

```

Data output				Messages	Notifications
	product_id [PK] character varying (10)	product character varying (100)	price integer		
1	P008	Nasi Goreng	12000		
2	P009	Nasi Goreng Spesial	25000		

- Menampilkan data transaksi terbesar yang pernah ada

```

26 SELECT * FROM transactions
27 WHERE total_tansaction_after_dsc =
28 (
29     SELECT MAX (total_tansaction_after_dsc) AS max_transaction
30     FROM transactions
31 );

```

Data output						Messages	Notifications
	transaction_id [PK] character varying (10)	customer_id character varying (10)	date_transaction date	table_transaction character varying (10)	total_tansaction_after_dsc integer		
1	TR012	CUS05	2022-06-05	Take Away	30000		

- Menampilkan data nomor telp dengan format +628xxxxx

```

41 UPDATE customer
42 SET phone_number = REPLACE (phone_number, '08', '+628');
43 SELECT * FROM customer;

```

Data output					Messages	Notifications
	customer_id [PK] character varying (10)	customer_name character varying (50)	members character varying (50)	phone_number character varying (50)		
1	CUS01	Kadir	0	+62877123333		
2	CUS02	Basuki	0	+62812399123		
3	CUS03	Munaroh	1	+62888901920		
4	CUS04	Adinda	0	+62815343411		
5	CUS05	Rozak	0	+62857129823		
6	CUS06	Devi	1	+62877745983		
7	CUS07	Qibil	0	+62821834583		
8	CUS08	Nurman	0	+62877567211		

9. Mencetak data member jika 0 'Bukan Member' dan 1 'Member'

```
44 UPDATE customer
45 SET members = REPLACE (members, '0', 'Not Member');
46 UPDATE customer
47 SET members = REPLACE (members, '1', 'Member');
48 SELECT * FROM customer;
```

Data output Messages Notifications

	customer_id [PK] character varying (10)	customer_name character varying (50)	members character varying (50)	phone_number character varying (50)
1	CUS01	Kadir	Not Member	+62877123333
2	CUS02	Basuki	Not Member	+62812399123
3	CUS03	Munaroh	Member	+62888901920
4	CUS04	Adinda	Not Member	+62815343411
5	CUS05	Rozak	Not Member	+62857129823
6	CUS06	Devi	Member	+62877745983
7	CUS07	Qibil	Not Member	+62821834583
8	CUS08	Nurman	Not Member	+62877567211