

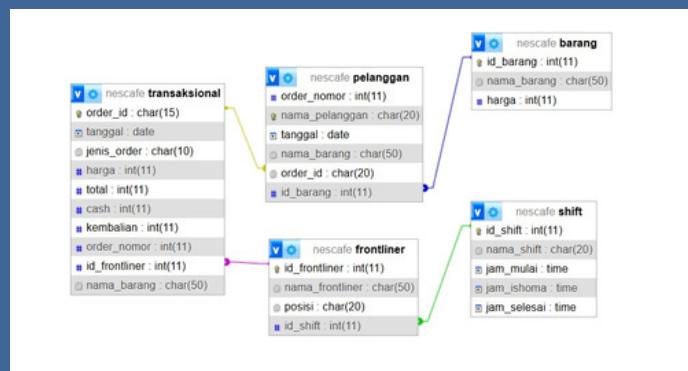
MySQL

CASHIER SYSTEM AND EMPLOYEE MANAGEMENT

Permasalahan = Pencatatan transaksi penjualan secara manual berisiko menimbulkan kesalahan dan data yang tidak terorganisir, sehingga menyulitkan pencarian serta rekap data transaksi, pelanggan, dan produk.

Tujuan = Tujuan: Mengembangkan database penjualan yang rapi dan mudah dikelola dengan MySQL melalui perancangan ERD, normalisasi data, dan penggunaan query SQL.

ERD (Entity Relationship Diagram)



implementasi DDL (struktur)

```
• CREATE TABLE shift (
    id_shift int,
    nama_shift char(20),
    jam_mulai time,
    jam_ishoma time,
    jam_selesai time,
    primary key (id_shift)
);
• describe shift;
```

```
DML (pengisian & pengolahan data)

insert into shift values
(0815, 'pagi', '8:00', '12:00-13:00', '15:00'),
(1522, 'siang', '15:00', '15:00-22:00', '22:00');

select *from shift;
```

TCL (pengelolaan database)

```
218 • START TRANSACTION;
219 • INSERT INTO transaksional
220   (order_id, tanggal, jenis_order, harga, total, cash, kembalian, order_nomor, id_frontline)
221   VALUES
222   ('NE/20251016/106', '2026-10-19', 'take away', 8000, 8000, 10000, 2000, 0106, 104623);
223 • COMMIT;
224
225
```

group by (pengelompokan data)

```
8 • select id_frontliner,nama_frontliner,count(*) as total  
9   from frontliner  
0   where id_shift=0815  
1   group by id_frontliner  
2   order by total;  
3
```

having (agregasi & pengelompokan data)

```
4 • select nama_frontliner, posisi, count(id_frontliner) as jumlah_frontliner  
5   from frontliner  
6   where id_frontliner = '104620'  
7   group by nama_frontliner  
8   having count(id_frontliner)  
9   order by nama_frontliner;
```

- ```
select frontliner.nama_frontliner, transaksional.order_id
from frontliner
left join transaksional
on frontliner.id_frontliner = transaksional.id_frontliner;
```

~~output group by~~

output having

```
184 • select nama_frontliner, posisi, count(id_frontliner) as jumlah_frontliner
185 from frontliner
186 where id_frontliner = '104620'
187 group by nama_frontliner
188 having count(id_frontliner)
189 order by nama_frontliner;

```

```
178 • select id_frontliner,nama_frontliner,count(*) as total
179 from frontliner
180 where id_shift=0815
181 group by id_frontliner
182 order by total;
```

## output join

```
196 • select frontliner.nama_frontliner, transaksional.order_id
197 from frontliner
198 left join transaksional
199 on frontliner.id_frontliner = transaksional.id_frontliner;

```

---

Result Grid | Filter Rows: Export: Wrap Cell Content:

| nama_frontliner    | order_id        |
|--------------------|-----------------|
| yessi sabitha      | NE/20251016/104 |
| ahmad fajar khorul | NE/20251016/105 |
| ahmad fajar khorul | NE/20251016/105 |
| dimas wibi anggoro | NULL            |
| raden fajar risky  | NULL            |
| farhanazhra rahma  | NULL            |