

# mysql

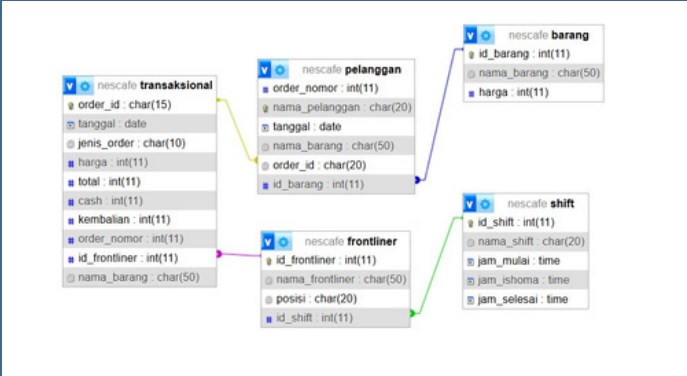
## CASHIER SYSTEM AND EMPLOYEE management



scan me!

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)

```
START TRANSACTION;
INSERT INTO transaksiional
(order_id, tanggal, jenis_order, harga, total, cash, kembalian, order_nomor, id_frontliner)
VALUES
('NE/20251016/106', '2026-10-19', 'take away', 8000, 8000, 10000, 2000, 0106, 104623);
COMMIT;
```

group by (pengelompokan data)

```
select id_frontliner,nama_frontliner,count(*) as total
from frontliner
where id_shift=0815
group by id_frontliner
order by total;
```

having (agregasi & pengelompokan data)

```
select nama_frontliner,posisi,count(id_frontliner) as jumlah_frontliner
from frontliner
where id_frontliner = '104620'
group by nama_frontliner
having count(id_frontliner)
order by nama_frontliner;
```

join

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

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;
```

nama_frontliner	posisi	jumlah_frontliner
yessi sabitha	kasir	1

output group by

```
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;
```

id_frontliner	nama_frontliner	total
104622	dimas wibi anggoro	1
104621	ahmad fajar khoirul	1
104620	yessi sabitha	1

output join

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

nama_frontliner	order_id
yessi sabitha	NE/20251016/104
ahmad fajar khoirul	NE/20251016/105
ahmad fajar khoirul	NE/20251016/105
dimas wibi anggoro	0000
raden fajar risky	0000
farhanazhra rahma	0000