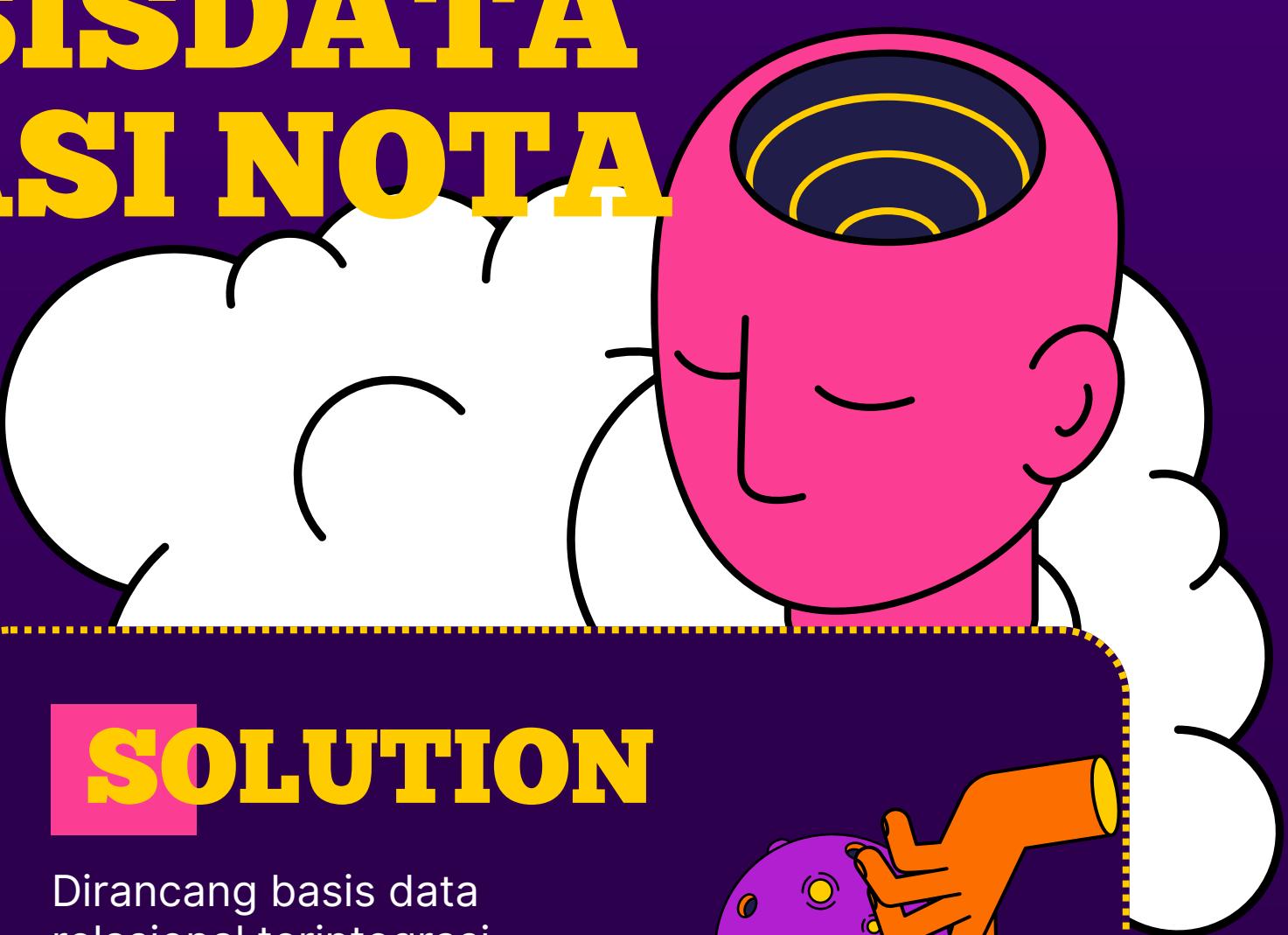


RANCANGAN BASISDATA SISTEM INFORMASI NOTA INDOMARET

MYSQL

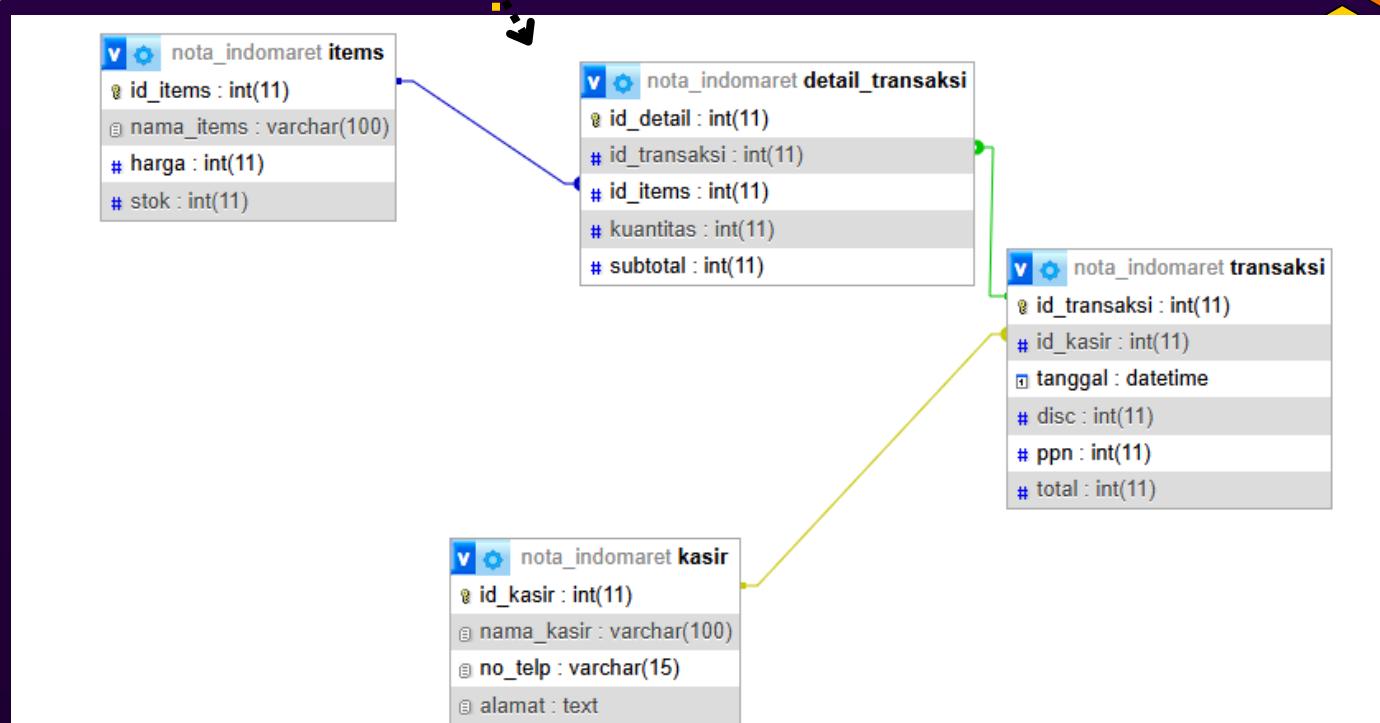


PROBLEM

Pencatatan transaksi belum terstruktur, stok barang tidak terkontrol, terjadi redundansi data, dan laporan penjualan sulit dihasilkan.

SOLUTION

Dirancang basis data relasional terintegrasi dengan normalisasi hingga 3NF, penerapan Primary Key dan Foreign Key, serta penggunaan transaksi SQL dan query analisis data.



DDL

```
CREATE TABLE detail_transaksi (
    id_detail INT AUTO_INCREMENT PRIMARY KEY,
    id_transaksi INT NOT NULL,
    id_items INT NOT NULL,
    kuantitas INT NOT NULL,
    subtotal INT NOT NULL,
    FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi),
    FOREIGN KEY (id_items) REFERENCES items(id_items)
);

SELECT
    t.id_transaksi,
    k.nama_kasir,
    i.nama_items,
    d.kuantitas,
    d.subtotal,
    t.tanggal
FROM detail_transaksi d
JOIN transaksi t ON d.id_transaksi = t.id_transaksi
JOIN kasir k ON t.id_kasir = k.id_kasir
JOIN items i ON d.id_items = i.id_items;
```

Detail transaksi

```
CREATE TABLE detail_transaksi (
    id_detail INT AUTO_INCREMENT PRIMARY KEY,
    id_transaksi INT NOT NULL,
    id_items INT NOT NULL,
    kuantitas INT NOT NULL,
    subtotal INT NOT NULL,
    FOREIGN KEY (id_transaksi) REFERENCES transaksi(id_transaksi),
    FOREIGN KEY (id_items) REFERENCES items(id_items)
);
```

Having

```
-- having

SELECT nama_items, count(stok) AS stok
FROM items
GROUP BY id_items, nama_items
HAVING count(stok) < 20;
```

**ATHAYA DAFFA
VYKA AMANUL ALAM
DANAR IKHSAN
ANDREAN VIERY**

