```
insert into product type (type name)
values ('Elektronik'), ('Pakaian'), ('Buku');
insert into product (product name, product typeid, merk)
values ('Laptop', 1, 'Samsung'), ('Smartphone', 1, 'Iphone');
select * from product
insert into product (product name, product typeid, merk)
values
('Kemeja', 2, 'Dust'),
('Jeans', 2, 'Levis'),
('Jaket', 2, 'Adidas');
 -- 1d. Insert 3 product dengan product type id = 3
insert into product (product_name, product_typeid, merk)
values
('Novel', 3, 'Gramedia'),
('Buku Pelajaran', 3, 'Airlangga'),
('Majalah', 3, 'Tempo');
insert into product description (product descriptionid, description)
values
(1, 'barang baru dan bagus'),
(2, 'barang bekas dan masih bagus'),
(3, 'Kemeja katun nyaman'),
(4, 'Jeans denim gaya'),
(5, 'Jaket musim dingin hangat'),
(6, 'Novel terlaris'),
(7, 'Buku pelajaran edukatif'),
(8, 'Majalah populer');
update product set product descriptionid = 1 where productid = 7;
update product set product descriptionid = 2 where productid = 8;
 -- 1f. Insert 3 payment method
insert into payment method (payment methodid, method name)
values
(1, 'Kartu Kredit'),
(2, 'Paypal'),
(3, 'Bayar di Tempat');
insert into users (name, address_id, dob, status_user, gender, created_at,
updated at)
values
('Alisa', 1, '1990-01-01', 'aktif', 'F', NOW(), NOW()), ('Boby', 2, '1985-05-05', 'tidak aktif', 'M', NOW(), NOW()),
('Charly', 3, '1992-12-12', 'aktif', 'M', NOW(), NOW()), ('Davidson', 4, '1988-03-03', 'aktif', 'M', NOW(), NOW()),
('Eva', 5, '1995-07-07', 'aktif', 'F', NOW(), NOW());
```

```
insert into transaction (userid, transaction_date)
values
(1, NOW()),
(2, NOW()),
(3, NOW()),
(1, NOW() - interval '2 day'),
(2, NOW() - interval '5 days'),
(3, NOW() - interval '7 days');
-- 1i. Insert 3 product dalam setiap transaksi
insert into transaction detail (transactionid, productid, quantity, price,
(1, 7, 1, 10000000, 2),
(1, 8, 1, 5000000, 1),
(1, 15, 1, 300000, 1),
(2, 16, 1, 500000, 3),
(2, 17, 1, 400000, 1),
(2, 18, 1, 40000, 3),
(3, 19, 1, 30000, 3),
(3, 20, 1, 40000, 3),
(3, 18, 1, 60000, 1);
select name from users where gender = 'M';
select * from product
where productid = 3;
-- 2c. Pilih data pelanggan yang created at dalam 7 hari terakhir dan nama
select * from users
where created at >= NOW() - interval '7 days' AND name LIKE '%a%';
select count(*) from users where gender = 'F';
select * from users
order by name asc;
select * from transaction detail
where productid = 3
limit 5;
-- 3a. Update nama product dimana product id = 1 menjadi 'product dummy'
update product
set product name = 'product_dummy'
where productid = 1;
update transaction detail
set quantity = 3
```

```
where productid = 1;
-- 4a. Hapus data dalam tabel product dimana product id = 1
delete from product
where productid=1;
-- 4b. Hapus data dalam tabel product dimana product type id = 1
delete from product
where product typeid=1; ----bermasalah
-- 1. Gabungkan data transaksi dari user id = 1 dan user id = 2
where userid IN (1, 2);
-- 2. Tampilkan jumlah harga transaksi user id = 1
select sum(price * quantity)
as total price from transaction detail td
join transaction t ON td.transactionid = t.transactionid
where t.userid = 1;
select * from users
select * from product_type
select * from transaction detail
select transaction.transactionid , transaction detail.price from
transaction detail
inner join transaction on
transaction.transactionid=transaction detail.transaction detailid
-- 3. Tampilkan total transaksi untuk product type = 2
select sum(price * quantity)
as total transaction from transaction detail td
join product p ON td.productid = p.productid
where p.product_typeid = 2;
product type yang berhubungan
select p.*, pt.type_name
from product p
join product_type pt ON p.product_typeid = pt.product_typeid;
dan field nama dari tabel user
select t.*, p.product_name, u.name
from transaction t
join transaction_detail td ON t.transactionid = td.transactionid
join product p ON td.productid = p.productid
join users u ON t.userid = u.userid;
--6. Tampilkan product yang tidak pernah ada di tabel transaction detail
menggunakan subquery
select * from product
where productid NOT IN (select productid from transaction detail);
```

```
create or replace function update updated at column()
returns trigger as $$
begin
  new.updated_at = NOW();
  return new;
$$ language plpgsql;
-- Terapkan trigger ke semua tabel
create trigger update user updated at before update ON users
for each row execute function update updated at column();
create trigger update_product_updated_at before update ON product
for each row execute function update updated at column();
create trigger update_transaction_updated_at before update ON product_type
for each row execute function update updated at column();
create trigger update transaction updated at before update ON product description
for each row execute function update updated at column();
create trigger update transaction updated at before update ON transaction
for each row execute function update updated at column();
create trigger update transaction detail updated at before update ON
transaction detail
for each row execute function update updated at column();
create trigger update transaction updated at before update ON payment method
for each row execute function update updated at column();
create trigger update transaction updated at before update ON address
for each row execute function update updated at column();
-- 8. Buat view untuk menampilkan semua field dari product dan product type
create view product with type AS
from product p
join product_type pt ON p.product_typeid = pt.product_typeid;
```