```
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');
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());
```

```
- 1h. Insert 3 transaksi untuk minimal 3 user
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');
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;
mengandung 'a'
select * from users
where created at >= NOW() - interval '7 days' AND name LIKE '%a%';
 -- 2d. Hitung jumlah pelanggan dengan gender Perempuan (Female/F)
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;
-- 1. Gabungkan data transaksi dari user id = 1 dan user id = 2
select * from transaction
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
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;
-- 4. Tampilkan semua field dari tabel product dan field name dari tabel
select p.*, pt.type name
from product p
join product type pt ON p.product typeid = pt.product typeid;
-- 5. Tampilkan semua field dari tabel transaction, field nama dari tabel product
dan field nama dari tabel user
select t.*, p.product name, u.name
from transaction t
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);
```

```
- 7. Buat fungsi dan trigger untuk mengupdate otomatis kolom updated at
create or replace function update updated at column()
returns trigger as $$
begin
   new.updated at = NOW();
   return new;
end:
$$ 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;
```