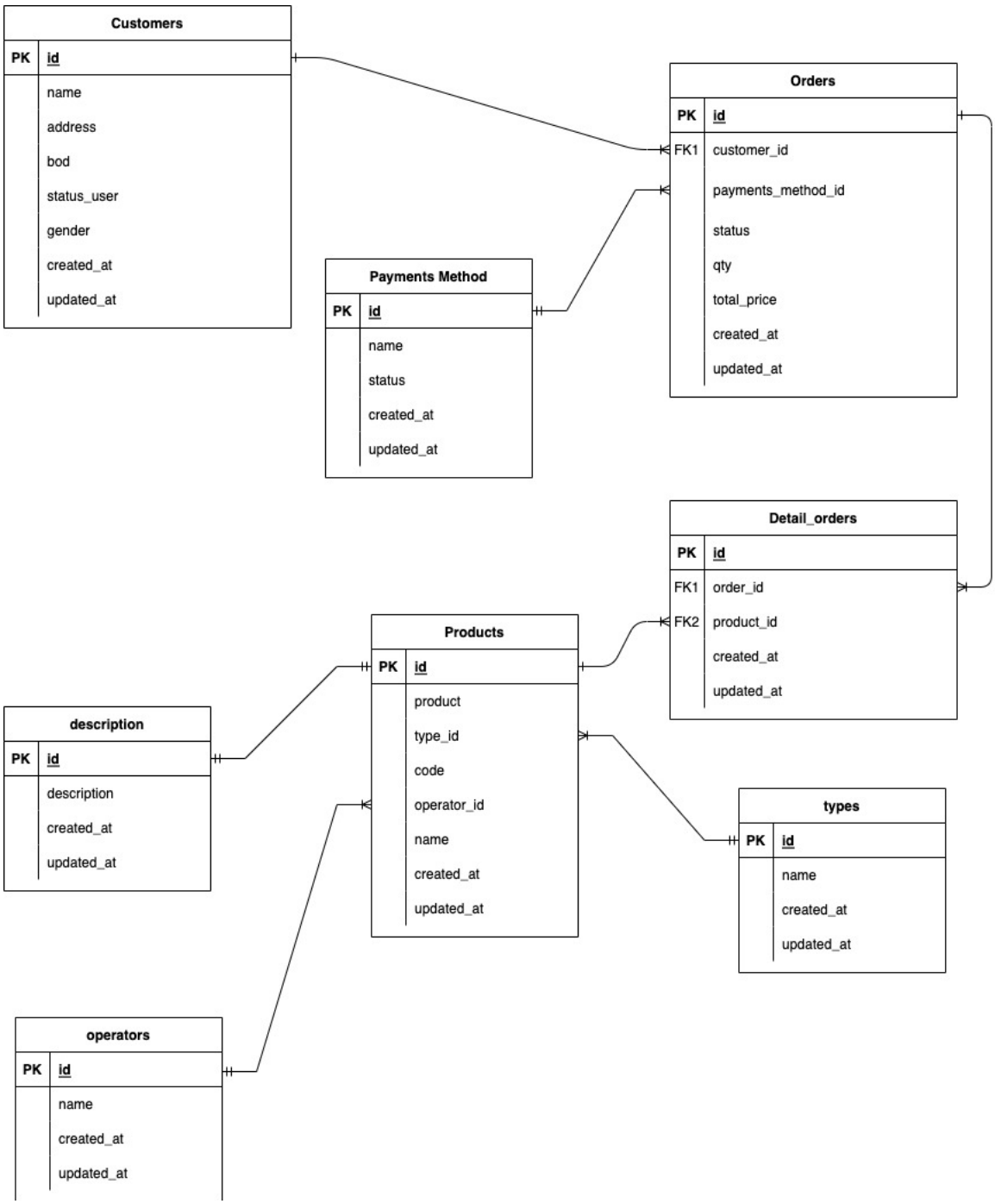
1. Schema Database



2. DDL

```
CREATE DATABASE online_shop_alta;
CREATE TABLE Customers (
   id int NOT NULL AUTO_INCREMENT,
   name varchar(255),
   address varchar(255),
   bod date,
   status varchar(255),
   gender varchar(255),
   created_at datetime,
   updated_at datetime,
   PRIMARY KEY (id)
);
CREATE TABLE Types (
     id int NOT NULL AUTO_INCREMENT,
     name VARCHAR(255),
     created_at datetime,
   updated_at datetime,
   PRIMARY KEY (id)
);
CREATE TABLE Operators (
     id int NOT NULL AUTO_INCREMENT,
     name VARCHAR(255),
     created_at datetime,
   updated_at datetime,
   PRIMARY KEY (id)
);
CREATE TABLE Payment_methods (
     id int NOT NULL AUTO_INCREMENT,
     name VARCHAR(255),
     status VARCHAR(255),
     created_at datetime,
   updated_at datetime,
   PRIMARY KEY (id)
);
CREATE TABLE Products(
     id int NOT NULL AUTO_INCREMENT,
     name VARCHAR(255),
     code VARCHAR(255),
     type_id int NOT NULL,
     operator_id int NOT NULL,
     created_at datetime,
   updated_at datetime,
   PRIMARY KEY (id),
```

```
   FOREIGN KEY (type_id) REFERENCES Types(id),
   FOREIGN KEY (operator_id) REFERENCES Operators(id)
);
CREATE TABLE Descriptions(
     id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
     description VARCHAR(255),
     product_id int UNIQUE,
     created_at datetime,
   updated_at datetime,
   FOREIGN KEY (product_id) REFERENCES Products(id)
);
CREATE TABLE Orders(
     id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
     customer_id int,
     payment_method_id int,
     status VARCHAR(255),
     qty int,
     total_price int,
     created_at datetime,
   updated_at datetime,
   FOREIGN KEY (customer_id) REFERENCES Customers(id),
   FOREIGN KEY (payment_method_id) REFERENCES Payment_methods(id)
);
CREATE TABLE Detail_orders(
     id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
     order_id int,
     product_id int,
   FOREIGN KEY (order_id) REFERENCES Orders(id),
   FOREIGN KEY (product_id) REFERENCES Products(id)
);
CREATE TABLE Kurirs(
     id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
     name VARCHAR(255),
     created_at datetime,
     updated_at datetime
);
ALTER TABLE Kurirs
ADD ongkos_dasar int;
ALTER TABLE Kurirs
RENAME TO Shippings;
DROP TABLE Shippings;
```

DML

1. Insert
   a. Operators

```
INSERT INTO Operators(name, created_at, updated_at)
VALUES('Telkomsel', now(), now());
INSERT INTO Operators(name, created_at, updated_at)
VALUES('Indosar', now(), now());
INSERT INTO Operators(name, created_at, updated_at)
VALUES('Tri', now(), now());
INSERT INTO Operators(name, created_at, updated_at)
VALUES('XL', now(), now());
INSERT INTO Operators(name, created_at, updated_at)
VALUES('Sing Tel', now(), now());
```

   b. Product type

```
INSERT INTO Types(name, created_at, updated_at)
VALUES('Type 1', now(), now());
INSERT INTO Types(name, created_at, updated_at)
VALUES('Type 2', now(), now());
INSERT INTO Types(name, created_at, updated_at)
VALUES('Type 3', now(), now());
```

   c. 2 products type 1 dan operator 3

```
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 1', 'P-001', 1, 3, now(), now());
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 2', 'P-002', 1, 3, now(), now());
```

   d. 3 products type 2 and opr 1

```
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 3', 'P-003', 2, 1, now(), now());
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 4', 'P-004', 2, 1, now(), now());
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 5', 'P-005', 2, 1, now(), now());
```

   e. 3 product type 3 opr 4

```
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 6', 'P-006', 3, 4, now(), now());
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 7', 'P-007', 3, 4, now(), now());
INSERT INTO Products(name, code, type_id, operator_id, created_at, updated_at)
VALUES('Product 8', 'P-008', 3, 4, now(), now());
```

f. Product description

```
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 1', 1, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 2', 2, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 3', 3, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 4', 4, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 5', 5, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 6', 6, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 7', 7, now(), now());
INSERT INTO Descriptions(description, product_id, created_at, updated_at)
VALUES('Description Product 8', 8, now(), now());
```

g. 3 payment method

```
INSERT INTO Payment_methods(name, status, created_at, updated_at)
VALUES('Cash', 'status 1', now(), now());
INSERT INTO Payment_methods(name, status, created_at, updated_at)
VALUES('Debit', 'status 2', now(), now());
INSERT INTO Payment_methods(name, status, created_at, updated_at)
VALUES('Dana', 'status 3', now(), now());
INSERT INTO Payment_methods(name, status, created_at, updated_at)
VALUES('Ovo', 'status 4', now(), now());
```

h. 5 uuser

```
INSERT INTO Customers(name, address, bod, status, gender, created_at, updated_at)
VALUES('Andika', 'malang','1994-10-10','active','male', now(), now());
INSERT INTO Customers(name, address, bod, status, gender, created_at, updated_at)
VALUES('Octavia', 'malang','1996-9-10','active','male', now(), now());
INSERT INTO Customers(name, address, bod, status, gender, created_at, updated_at)
VALUES('Pratama', 'malang','1994-7-10','active','male', now(), now());
INSERT INTO Customers(name, address, bod, status, gender, created_at, updated_at)
VALUES('Putra', 'malang','1994-8-10','active','male', now(), now());
INSERT INTO Customers(name, address, bod, status, gender, created_at, updated_at)
VALUES('Jamal', 'malang','1994-2-10','active','male', now(), now());
```

i. 3 transaction

```
INSERT INTO Orders(customer_id, payment_method_id, status, qty, total_price, created_at, updated_at)
VALUES(1, 1,'Lunas','3','150000', now(), now());
INSERT INTO Orders(customer_id, payment_method_id, status, qty, total_price, created_at, updated_at)
VALUES(2, 2,'Lunas','3','145000', now(), now());
INSERT INTO Orders(customer_id, payment_method_id, status, qty, total_price, created_at, updated_at)
VALUES(3, 1,'Lunas','3','175000', now(), now());
```

j. 3 products masing-masing transaction

```
INSERT INTO Detail_orders(order_id, product_id)
VALUES(1,1);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(1,2);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(1,3);

INSERT INTO Detail_orders(order_id, product_id)
VALUES(2,3);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(2,2);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(2,1);

INSERT INTO Detail_orders(order_id, product_id)
VALUES(3,2);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(3,1);
INSERT INTO Detail_orders(order_id, product_id)
VALUES(3,3);
```

2. Select

```
SELECT * FROM Customers WHERE gender = 'male'
```

line 1, column 15, location 14 — No limit | Beautify ⌘I | Run Current

	id	name	address	bod	status	gender	created_at	updated_at
1	1	Andika	malang	1994-10-10	active	male	2022-07-24 19:36:04	2022-07-24 19:36:04
2	2	Octavia	malang	1996-09-10	active	male	2022-07-24 19:36:51	2022-07-24 19:36:51
3	3	Pratama	malang	1994-07-10	active	male	2022-07-24 19:36:51	2022-07-24 19:36:51
4	4	Putra	malang	1994-08-10	active	male	2022-07-24 19:36:51	2022-07-24 19:36:51
5	5	Jamal	malang	1994-02-10	active	male	2022-07-24 19:36:51	2022-07-24 19:36:51

```
SELECT * FROM Products WHERE id=3
```

line 1, column 23, location 22 — No limit | Beautify ⌘I | Run Current

	id	name	code	type_id	operator_id	created_at	updated_at
1	3	Product 3	P-003	2	1	2022-07-24 19:26:59	2022-07-24 19:26:59

SQL Query | Customers

```
1 SELECT * FROM Customers WHERE created_at > date(date(now())-7) and created_at < date(now())
2 and name like '%a%'
```

line 2, column 19, location 110 — No limit | Beautify ⌘I | Run Current

	id	name	address	bod	status	gender	created_at	updated_at
1	1	Andika	malang	1994-10-10	active	male	2022-07-23 19:36:04	2022-07-24 19:36:04

3. Update

```
4 UPDATE Products
5 SET name = "Product Dummy 1" WHERE id=1
```

line 5, column 40, location 169 — No limit | Beautify ⌘I | Run Current

```
Query 1 OK: 1 row affected
```

4. Delete

```
7 DELETE FROM Products WHERE id=1;
```

line 7, column 33, location 204 — No limit | Beautify ⌘I | Run Current

```
Query 1 ERROR: Cannot delete or update a parent row: a foreign key constraint fails
(`online_shop_alta`.`descriptions`, CONSTRAINT `descriptions_ibfk_1` FOREIGN KEY (`product_id`) REFERENCES
`products` (`id`))
```

5. Join

```
1 SELECT *
2 FROM Orders
3 INNER JOIN Customers ON Orders.customer_id = Customers.id WHERE customer_id = 1 or customer_id = 2
```

line 3, column 57, location 77 — No limit | Beautify ⌘I | Run Current

	id	customer_id	payment_method_id	status	qty	total_price	created_at	updated
1	1	1	1	Lunas	3	150000	2022-07-24 19:38:48	2022-07-24 1
2	2	2	2	Lunas	3	145000	2022-07-24 19:39:50	2022-07-24 1