-- 刪除舊資料表

DROP TABLE IF EXISTS settlements;

-- 更新後的結算資料表，recipient\_role 改為 user\_id（外鍵關聯到 users 表）

CREATE TABLE settlements (

settlement\_id INT AUTO\_INCREMENT PRIMARY KEY,

order\_id INT,

amount DECIMAL(10, 2) NOT NULL,

user\_id INT, -- 用戶的 user\_id，指向具體的餐廳、外送小哥或平台

settled\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (user\_id) REFERENCES users(user\_id)

);

-- 插入測試數據：結算（使用 user\_id 來表示 recipient）

INSERT INTO settlements (order\_id, amount, user\_id)

VALUES

(1, 600.00, 1), -- 餐廳的結算，user\_id = 1（炸雞餐廳）

(1, 600.00, 4), -- 送貨員的結算，user\_id = 4（送貨員A）

(1, 600.00, 10), -- 平台的結算，user\_id = 10（平台系統）

(2, 420.00, 2), -- 餐廳的結算，user\_id = 2（披薩商家）

(2, 420.00, 5), -- 送貨員的結算，user\_id = 5（送貨員B）

(2, 420.00, 10), -- 平台的結算，user\_id = 10（平台系統）

(3, 280.00, 3), -- 餐廳的結算，user\_id = 3（壽司店）

(3, 280.00, 6), -- 送貨員的結算，user\_id = 6（送貨員C）

(3, 280.00, 10); -- 平台的結算，user\_id = 10（平台系統）

-- 刪除舊資料表

DROP TABLE IF EXISTS settlements, reviews, order\_details, orders, menu, restaurant\_details, delivery\_person\_details, customer\_details, users, platform\_details;

-- 更新後的統一使用者角色表

CREATE TABLE users (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

role INT NOT NULL, -- 用數字紀錄角色：1=restaurant, 2=delivery\_person, 3=customer, 4=platform

role\_id INT, -- 與角色詳細資料表關聯的外鍵

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

-- 餐廳商家詳細資料

CREATE TABLE restaurant\_details (

restaurant\_id INT AUTO\_INCREMENT PRIMARY KEY,

password VARCHAR(100) NOT NULL,

restaurant\_name VARCHAR(100) NOT NULL,

address VARCHAR(255),

contact\_number VARCHAR(15)

);

-- 送貨小哥詳細資料

CREATE TABLE delivery\_person\_details (

delivery\_id INT AUTO\_INCREMENT PRIMARY KEY,

password VARCHAR(100) NOT NULL,

full\_name VARCHAR(100) NOT NULL,

vehicle\_info VARCHAR(100)

);

-- 客戶詳細資料

CREATE TABLE customer\_details (

customer\_id INT AUTO\_INCREMENT PRIMARY KEY,

password VARCHAR(100) NOT NULL,

full\_name VARCHAR(100) NOT NULL,

address VARCHAR(255)

);

-- 平台詳細資料（單一平台）

CREATE TABLE platform\_details (

platform\_id INT AUTO\_INCREMENT PRIMARY KEY,

password VARCHAR(100) NOT NULL,

platform\_name VARCHAR(100) NOT NULL

);

-- 菜單資料表

CREATE TABLE menu (

menu\_id INT AUTO\_INCREMENT PRIMARY KEY,

restaurant\_id INT,

item\_name VARCHAR(100) NOT NULL,

price DECIMAL(10, 2) NOT NULL,

availability BOOLEAN DEFAULT TRUE,

FOREIGN KEY (restaurant\_id) REFERENCES restaurant\_details(restaurant\_id)

);

-- 訂單資料表

CREATE TABLE orders (

order\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

restaurant\_id INT,

delivery\_person\_id INT,

order\_status ENUM('pending', 'confirmed', 'delivering', 'completed') DEFAULT 'pending',

total\_amount DECIMAL(10, 2) NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (customer\_id) REFERENCES customer\_details(customer\_id),

FOREIGN KEY (restaurant\_id) REFERENCES restaurant\_details(restaurant\_id),

FOREIGN KEY (delivery\_person\_id) REFERENCES delivery\_person\_details(delivery\_id)

);

-- 訂單詳情資料表

CREATE TABLE order\_details (

detail\_id INT AUTO\_INCREMENT PRIMARY KEY,

order\_id INT,

menu\_id INT,

quantity INT NOT NULL,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (menu\_id) REFERENCES menu(menu\_id)

);

-- 評價資料表

CREATE TABLE reviews (

review\_id INT AUTO\_INCREMENT PRIMARY KEY,

order\_id INT,

customer\_id INT,

rating INT CHECK (rating BETWEEN 1 AND 5),

comments TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id),

FOREIGN KEY (customer\_id) REFERENCES customer\_details(customer\_id)

);

-- 結算資料表

CREATE TABLE settlements (

settlement\_id INT AUTO\_INCREMENT PRIMARY KEY,

order\_id INT,

amount DECIMAL(10, 2) NOT NULL,

recipient\_role ENUM('restaurant', 'delivery\_person', 'platform') NOT NULL, -- 加入平台角色

settled\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (order\_id) REFERENCES orders(order\_id)

);

-- 插入測試數據：使用者角色

-- 角色: 1=restaurant, 2=delivery\_person, 3=customer, 4=platform

INSERT INTO restaurant\_details (password, restaurant\_name, address, contact\_number)

VALUES ('pass123', '炸雞餐廳', '台北市信義路1號', '0912345678'),

('pass456', '披薩商家', '新北市永和區中正路100號', '0922345678'),

('pass789', '壽司店', '台中市南屯區五權西路200號', '0933345678');

INSERT INTO delivery\_person\_details (password, full\_name, vehicle\_info)

VALUES ('pass987', '送貨員A', '摩托車123'),

('pass654', '送貨員B', '汽車ABC'),

('pass321', '送貨員C', '自行車XYZ');

INSERT INTO customer\_details (password, full\_name, address)

VALUES ('pass1234', '客戶A', '台北市大安路10號'),

('pass5678', '客戶B', '新北市新店區中興路200號'),

('pass9101', '客戶C', '桃園市中壢區中央路50號');

-- 平台詳細資料

INSERT INTO platform\_details (password, platform\_name)

VALUES ('platformPass', '平台系統');

-- 使用者表（統整）

-- 角色: 1=restaurant, 2=delivery\_person, 3=customer, 4=platform

INSERT INTO users (username, role, role\_id)

VALUES ('炸雞餐廳', 1, 1),

('披薩商家', 1, 2),

('壽司店', 1, 3),

('送貨員A', 2, 1),

('送貨員B', 2, 2),

('送貨員C', 2, 3),

('客戶A', 3, 1),

('客戶B', 3, 2),

('客戶C', 3, 3),

('平台系統', 4, 1);

-- 插入測試數據：菜單

INSERT INTO menu (restaurant\_id, item\_name, price)

VALUES (1, '炸雞', 150.00),

(1, '可樂', 50.00),

(2, '披薩', 300.00),

(2, '沙拉', 120.00),

(3, '壽司', 200.00),

(3, '味噌湯', 80.00);

-- 插入測試數據：訂單

INSERT INTO orders (customer\_id, restaurant\_id, delivery\_person\_id, order\_status, total\_amount)

VALUES (1, 1, 1, 'completed', 600.00),

(2, 2, 2, 'completed', 420.00),

(3, 3, 3, 'completed', 280.00);

-- 插入測試數據：訂單詳情

INSERT INTO order\_details (order\_id, menu\_id, quantity)

VALUES (1, 1, 2), -- 兩份炸雞

(1, 3, 1), -- 一份披薩

(2, 4, 1), -- 一份沙拉

(2, 3, 1), -- 一份披薩

(3, 5, 1), -- 一份壽司

(3, 6, 1); -- 一份味噌湯

-- 插入測試數據：評價

INSERT INTO reviews (order\_id, customer\_id, rating, comments)

VALUES (1, 1, 5, '炸雞很好吃，外送也很快！'),

(2, 2, 4, '披薩不錯，但沙拉味道一般。'),

(3, 3, 3, '壽司新鮮，但味噌湯偏鹹。');

-- 插入測試數據：結算

INSERT INTO settlements (order\_id, amount, recipient\_role)

VALUES (1, 600.00, 'restaurant'), -- 小哥將600給商家

(1, 600.00, 'delivery\_person'), -- 客戶再付600給小哥

(1, 600.00, 'platform'), -- 平台也可結算

(2, 420.00, 'restaurant'), -- 小哥將420給商家

(2, 420.00, 'delivery\_person'), -- 客戶再付420給小哥

(2, 420.00, 'platform'), -- 平台也可結算

(3, 280.00, 'restaurant'), -- 小哥將280給商家

(3, 280.00, 'delivery\_person'), -- 客戶再付280給小哥

(3, 280.00, 'platform'); -- 平台也可結算