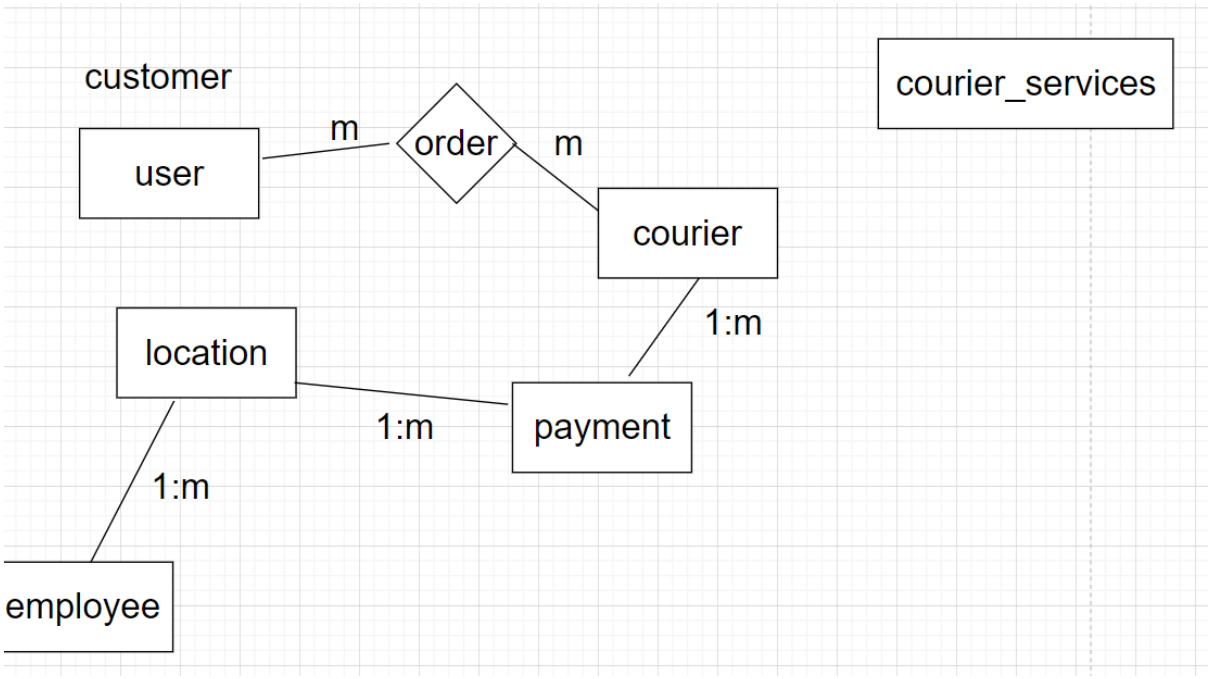
Courier Management



User Table:

User

(UserID INT PRIMARY KEY,

Name VARCHAR(255),

Email VARCHAR(255) UNIQUE,

Password VARCHAR(255),

ContactNumber VARCHAR(20),

Address TEXT

);

Courier

(CourierID INT PRIMARY KEY,

SenderName VARCHAR(255),

SenderAddress TEXT,

ReceiverName VARCHAR(255),

ReceiverAddress TEXT,

Weight DECIMAL(5, 2),

Status VARCHAR(50),

TrackingNumber VARCHAR(20) UNIQUE,

DeliveryDate DATE);

CourierServices

(ServiceID INT PRIMARY KEY,

ServiceName VARCHAR(100),

Cost DECIMAL(8, 2));

Employee Table:

(EmployeeID INT PRIMARY KEY,

Name VARCHAR(255),

Email VARCHAR(255) UNIQUE,

ContactNumber VARCHAR(20),

Role VARCHAR(50),

Salary DECIMAL(10, 2));

Location Table:

(LocationID INT PRIMARY KEY,

LocationName VARCHAR(100),

Address TEXT);

Payment Table:

(PaymentID INT PRIMARY KEY,

CourierID INT,

LocationId INT,

Amount DECIMAL(10, 2),

PaymentDate DATE,

FOREIGN KEY (CourierID) REFERENCES Couriers(CourierID),

FOREIGN KEY (LocationID) REFERENCES Location(LocationID)

Task 2: Select,Where

Solve the following queries in the Schema that you have created above

1. List all customers:
2. List all orders for a specific customer:
3. List all couriers:
4. List all packages for a specific order:
5. List all deliveries for a specific courier:
6. List all undelivered packages:
7. List all packages that are scheduled for delivery today:
8. List all packages with a specific status:
9. Calculate the total number of packages for each courier.
10. Find the average delivery time for each courier
11. List all packages with a specific weight range:
12. Retrieve employees whose names contain 'John'
13. Retrieve all courier records with payments greater than $50.

Task 3: GroupBy, Aggregate Functions, Having, Order By, where

14. Find the total number of couriers handled by each employee.
15. Calculate the total revenue generated by each location
16. Find the total number of couriers delivered to each location.
17. Find the courier with the highest average delivery time:
18. Find Locations with Total Payments Less Than a Certain Amount
19. Calculate Total Payments per Location
20. Retrieve couriers who have received payments totaling more than $1000 in a specific location (LocationID = X):
21. Retrieve couriers who have received payments totaling more than $1000 after a certain date (PaymentDate > 'YYYY-MM-DD'):
22. Retrieve locations where the total amount received is more than $5000 before a certain date (PaymentDate > 'YYYY-MM-DD')