COMP 2411 A1

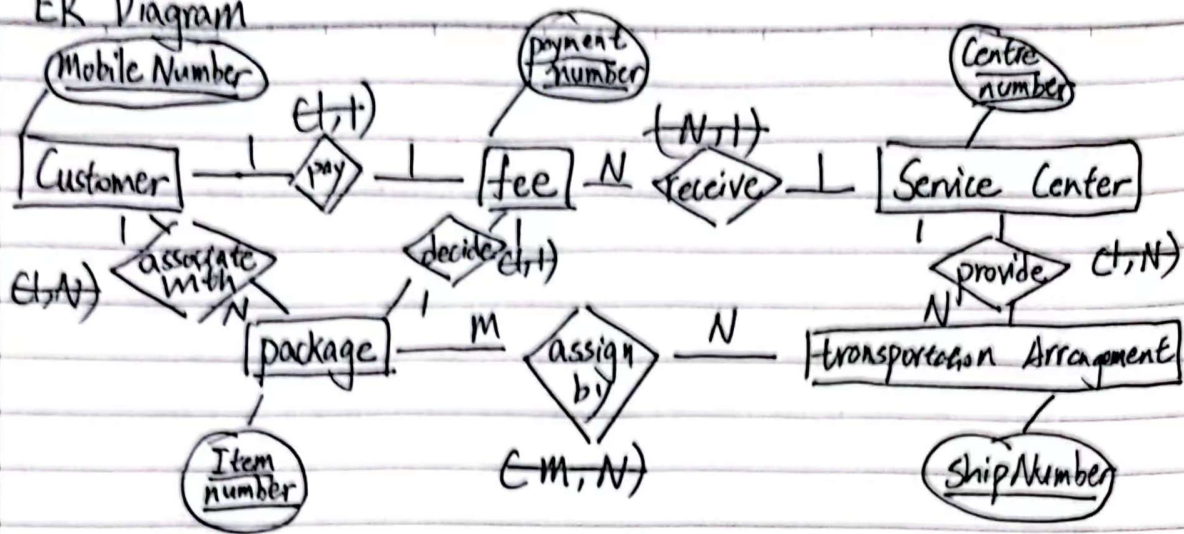Question 1 Part 1   Name: Zhu Jinshun   ID: 22101071D
ER Diagram

Attributes
Customer (Mobile Number, name, Service mode)
Fee (payment number)
Service center(Centre number, types, addresses)
 Package (Item number, Weight, dimensions, insurance amount, destination
        final delivery date)
Transportation Arrangement (ShipNumber, type, completion timestamp)

Assumptions
1. Each customer has an unique mobile number
2. Each fee has a unique payment number
3. Each package is associated with one customer, one customer
can have multiple packages
4. A package can decide only one fee, only one fee can
be assigned to one package
5. A service center can provide multiple transportation arrangements
Multiple transportation arrangements can be assigned to one service center
6. A customer only need to pay one fee for each delivery
7. A package can choose mult different kinds of m transportation,
One transportation can transport multiple packages
8. A service center can receive many fees, one fee can only
be received by one service center
9. Fee decided Each fee is only decided by customer service
mode and weight of package leading to its own payment number

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Question 1 Part 2

Relation Table

— — primary key

＊ — foreign key

Customer

Mobile Number	Name	Service Mode

Service Center

Centre number	type	addresses

Package

Item number	Weight	dimensions	insurence amount	destinction	final deliverydate

Fee

Payment number

Transportation Arrangement

ShipNumber	type	Completion timestamp

~~Pay~~

Fee

Payment Number	Item Number ＊	Mobile Number ＊

Assign by (M:N) for Package and transportation

Item Number	ShipNumber

Receive (1:N) for fee/service center

Payment Number	service Number

Provide (1:N) for service center/ transportation

Centre Number	shipNumber

Associate with (1:N) for customer/package

Mobile Number	Item Number