

**DB FOUNDATIONS - ASSIGNMENT 1**

**Submitted by: Ishwarya N**

**Date: 12.08.2025**

**Tasks to be Completed:**

**Identify Entities**:

Customer

Restaurant

FoodItem

Order

Payment   
Delivery   
DeliveryAgent

**Identify Attributes**:

Customer

CustomerID(PK)

Name

Email

Phone

Address

Restaurant

Restaurant (PK)

Name

Location

Contact info

FoodItem (Menu)   
 FoodItemID (PK)

Name



Price

Description   
Category   
RestaurantID(FK)

Order

OrderID(PK)   
CustomerID(FK)

OrderDate

TotalAmount

Status

Payment   
PaymentID(PK)   
OrderID(FK)   
paymentDate

Amount

PaymentMethod   
 PaymentStatus   
Delivery   
 DeliveryID(PK)   
 OrderID(FK)   
 AgentID(FK)   
 DeliveryTime   
 DeliveryStatus   
 AgentID(PK)

Name

Phone

VehicleNumber

Availability

**Defne Relationships**:

Customer →Order

One customer can place many orders   
 Relationship: One-to-Many   
Restaurant →FoodItem (Menu)   
 One restaurant can have many food items   
 Relationship: One-to-Many

Order →FoodItem

One order can contain many food items



One food item can be in many orders   
 Relationship: Many-to-Many   
Order →Payment   
 Each order has one payment   
 Relationship: One-to-One   
Order →Delivery   
 Each order has one delivery record   
 Relationship: One-to-One   
Delivery →Delivery Agent   
 One delivery agent can deliver many orders   
 Relationship: One-to-Many

**Draw the ER Diagram**:

