ASSIGNMENT 1
ER DIAGRAMS

Q1. Develop an ER diagram for a multi-tiered e-commerce platform, considering entities like products, orders, customers, and suppliers, and their interrelationships.

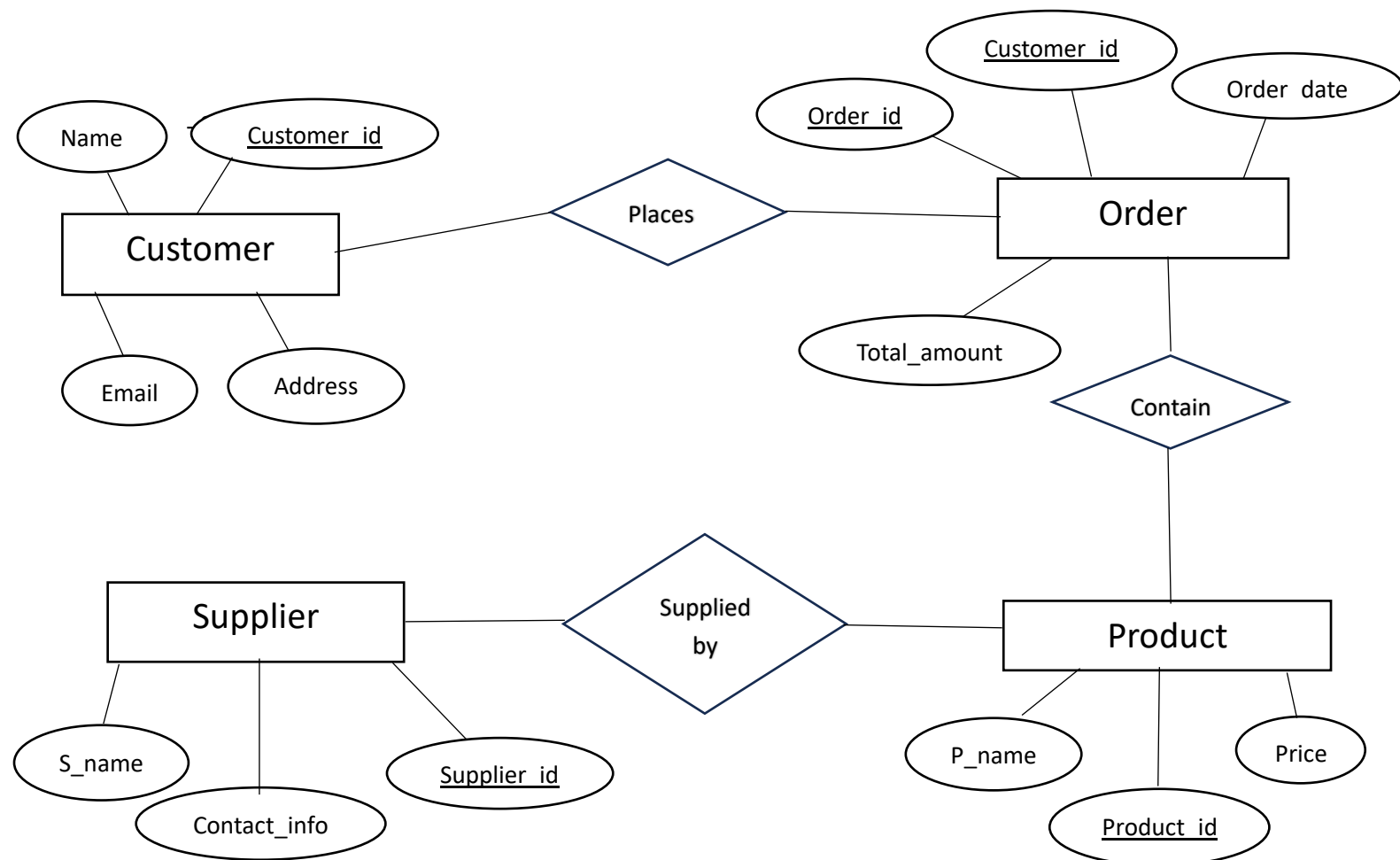Ans: Creating an ER diagram for a multi-tiered e-commerce

1. Entities: 2. Relationships:

  - Customer   - Customer places Order

  - Product   - Product supplied by Supplier

  - Order   - Order contain Product
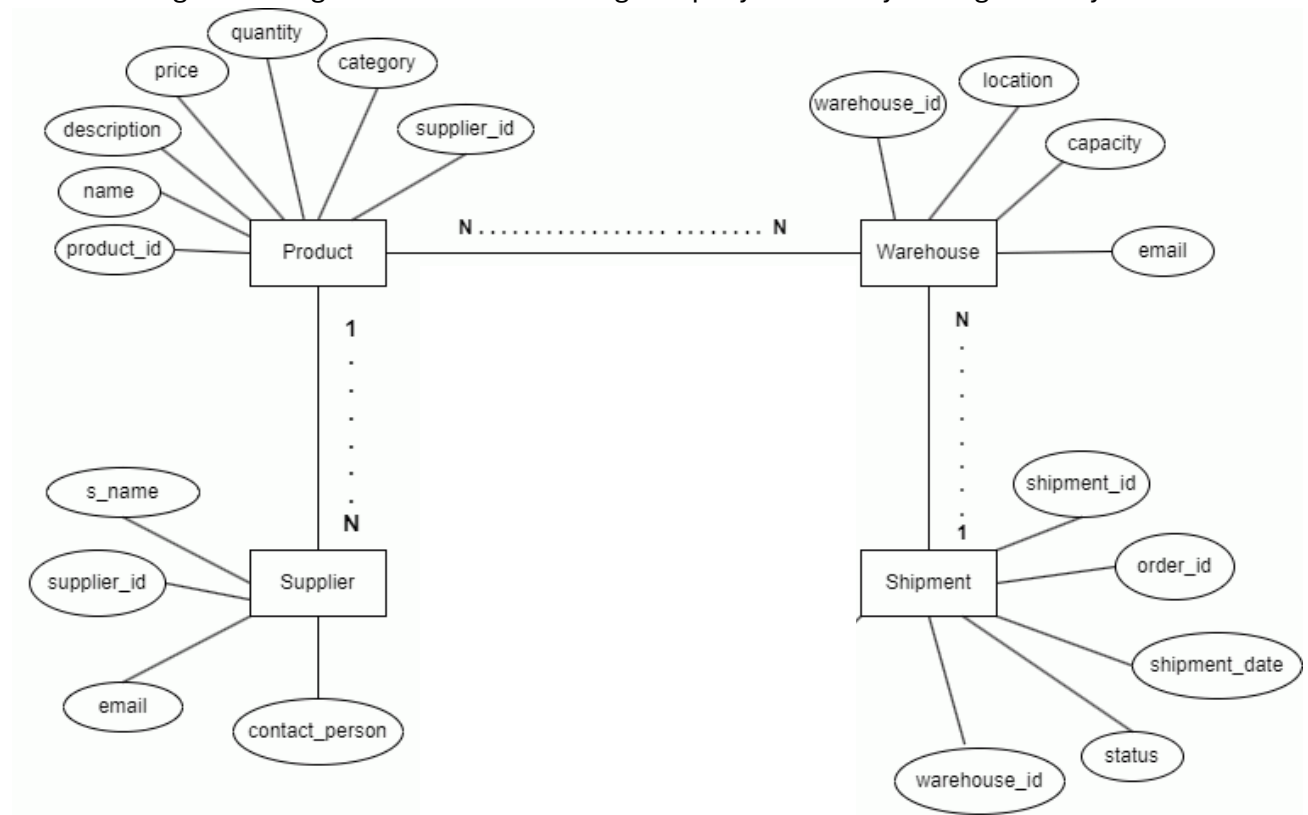
  - Supplier

  3. Attributes:

  - Customer: CustomerID (PK), Name, Email, Address

  - Product: ProductID (PK), Name, Price

  - Order: OrderID (PK), CustomerID (FK), OrderDate, TotalAmount

  - Supplier: SupplierID (PK), Name, ContactInfo

Q2. Create a conceptual ER diagram for a manufacturing company's inventory management system, including entities like products, suppliers, warehouses, and shipments.

Ans: Creating an ER diagram for a manufacturing company's inventory management system

1. Entities: 2. Attributes:

-Products   -Products: productid(PK), price,name,description,quantity,category,supplierid(FK)

-Shipments   -Shipments: shipmentid(PK),warehouseid(FK),status,shipment_date

-Warehouses   -Warehouses: warehouseid(PK),location,capacity,email

-Suppliers   -Suppliers: supplierid(PK),contact_person,name,s_email

Q3. Given a scenario involving a university's student registration system, design an ER diagram illustrating the entities, attributes, and relationships involved

Ans: ER for university's student registration system

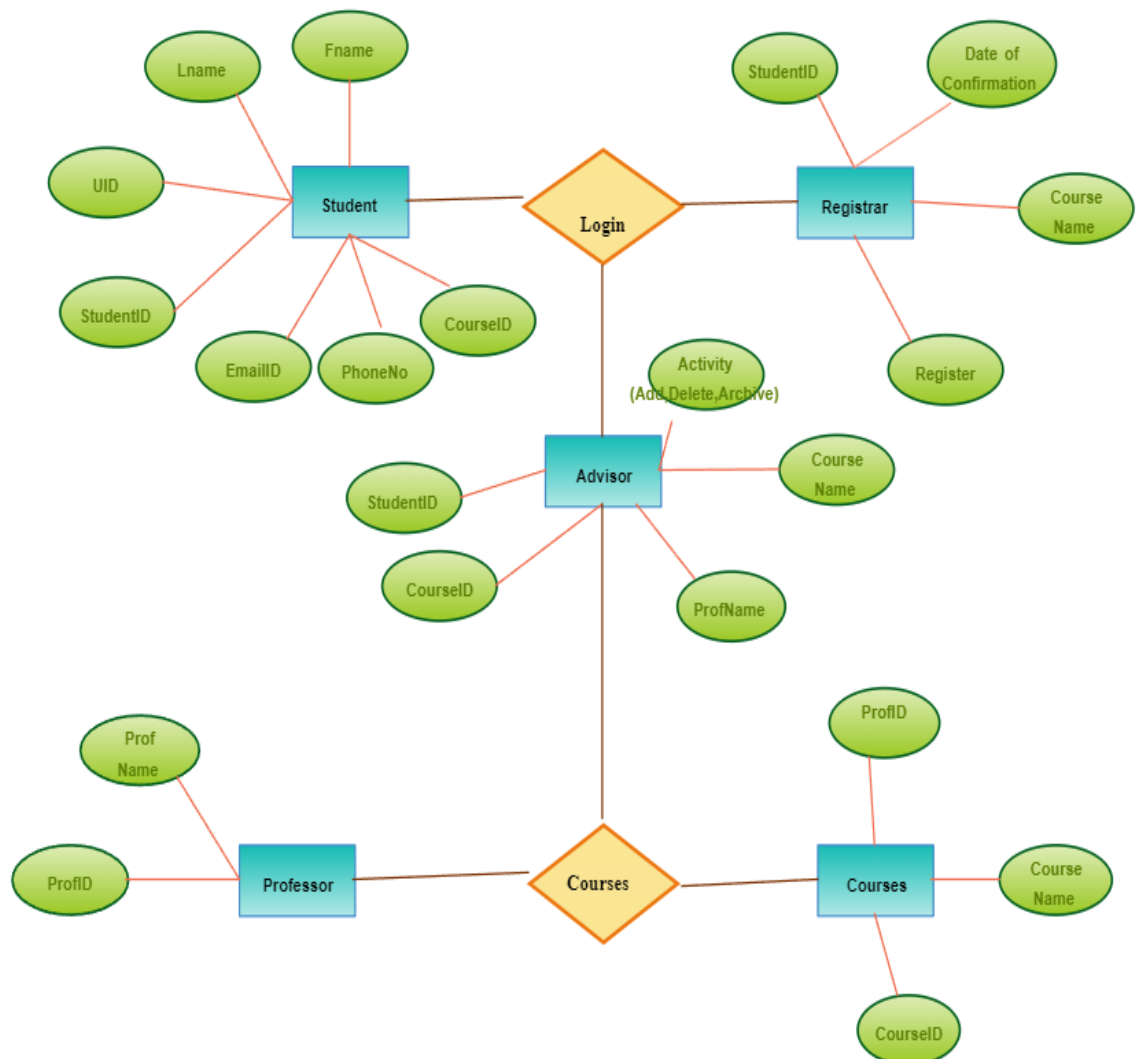| 1.Entities:	2. Attributes
-Student	-Student: studentid(PK),name,phoneNo.,Cousreid(FK),
-Registrar	-Registrar: register(PK), studentid(FK), CourseName
-Advisor	-Advisor: studentid(FK), CourseName, ProfName, Courseid
-Course	-Course: Courseid(PK), CourseName, ProfID(FK)
-Professors	-Professors: ProdID(PK), ProfName

Q4. Create an ER diagram for a library management system, including entities such as books, authors, borrowers, and transactions

Ans: ER diagram for a library management system

1.Entities: 2. Attributes:
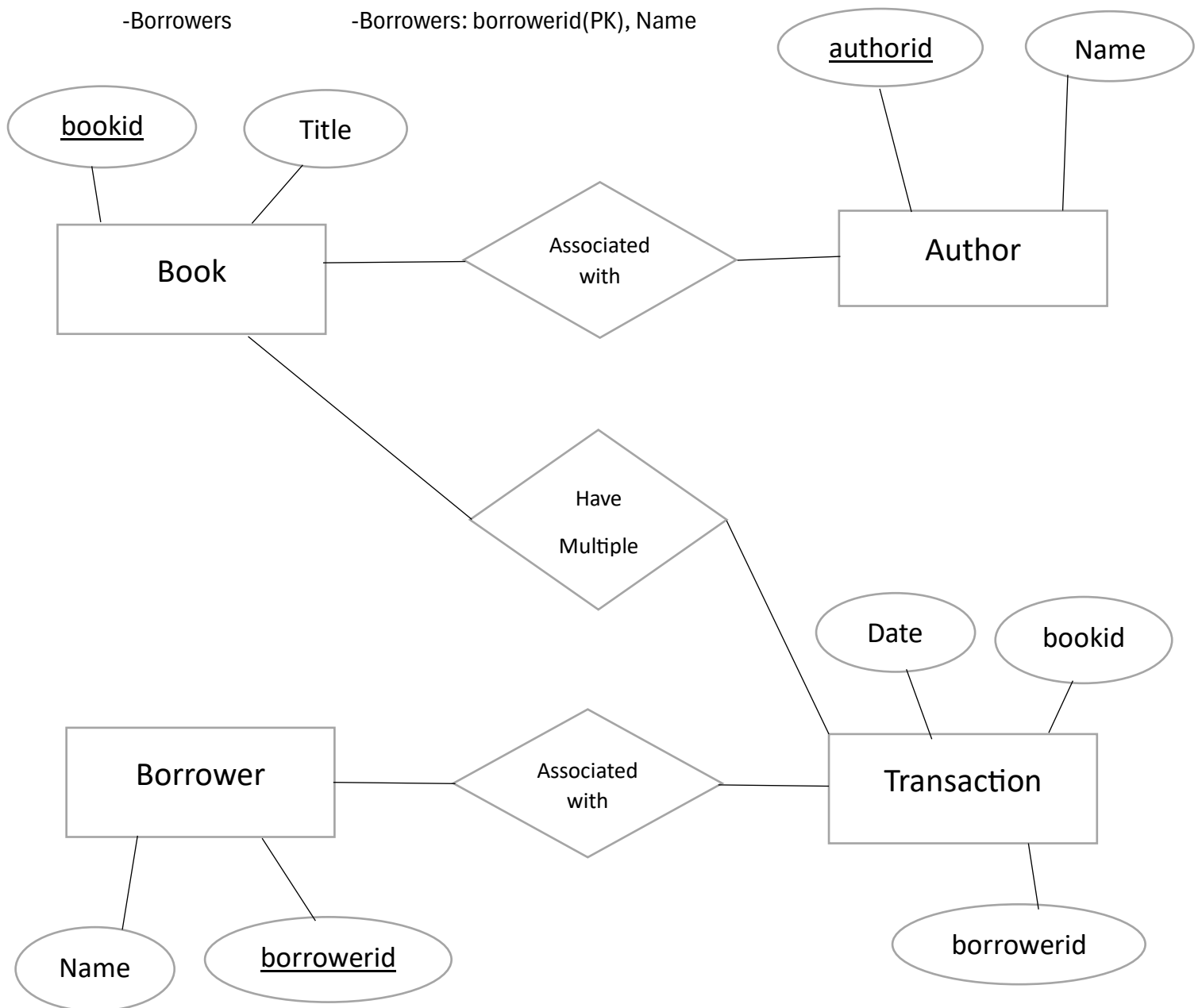
-Books   -Books: bookid(PK), title

-Authors   -Authors: authorid(PK), Name

-Transactions   -Transactions: bookid(FK), borrowerid(FK), date

-Borrowers   -Borrowers: borrowerid(PK), Name

Q5. Develop an ER diagram for a social media platform, considering entities like users, posts, comments, and likes

Ans: ER diagram for a social media platform