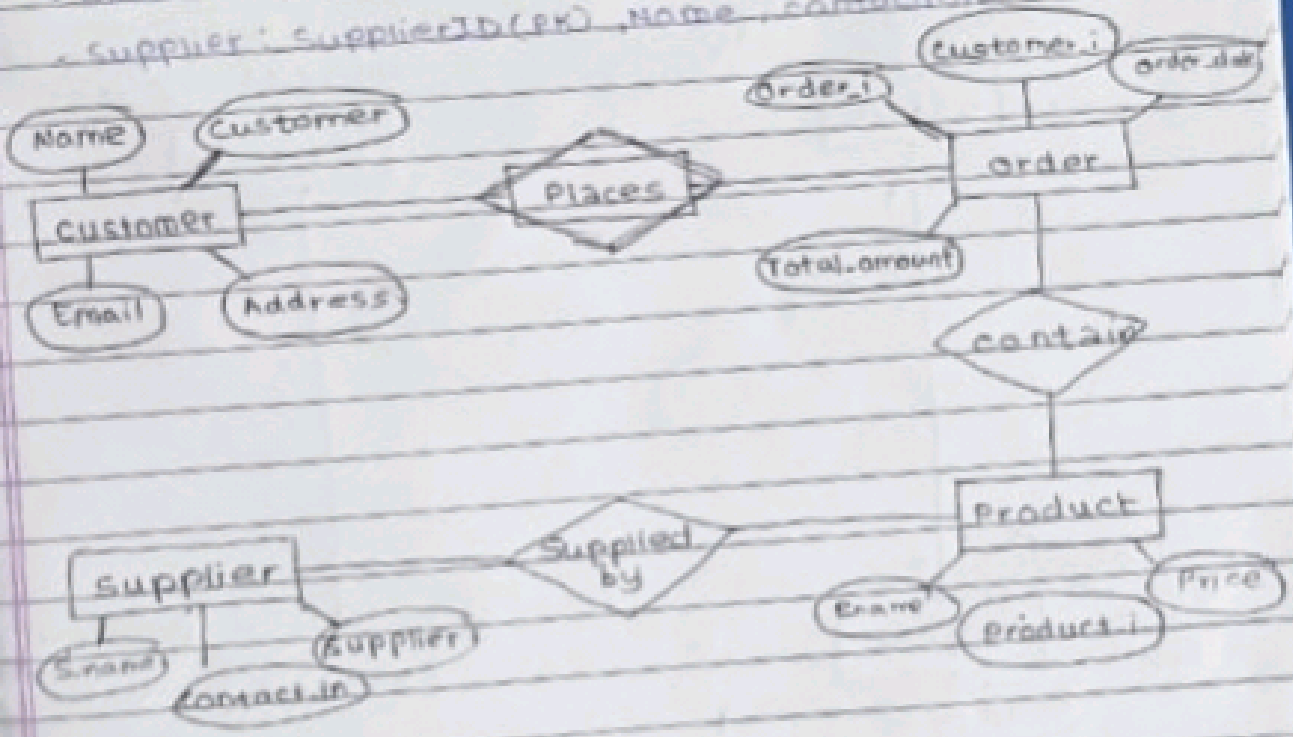
ER Diagram

Q1. Develop an ER diagram for multithread ECommerce platform, considering entities like products, orders, costumers and suppliers and their interrelationship

creating an ER diagram for a multitiered e-commerce

1. Entities:
   - customer
   - Product
   - order
   - Suppliers
2. Relationships:
   - customer places order
   - Product supplied by Supplier
   - order contain product
3. Attributes:
   - customer : customerID(PK), Name, Email, Address
   - Product : product ID(PK), Name, Price
   - order : order ID (PK), customer ID(FK), orderDate, totalAmount
   - Supplier : SupplierID(PK), Name, comachofo

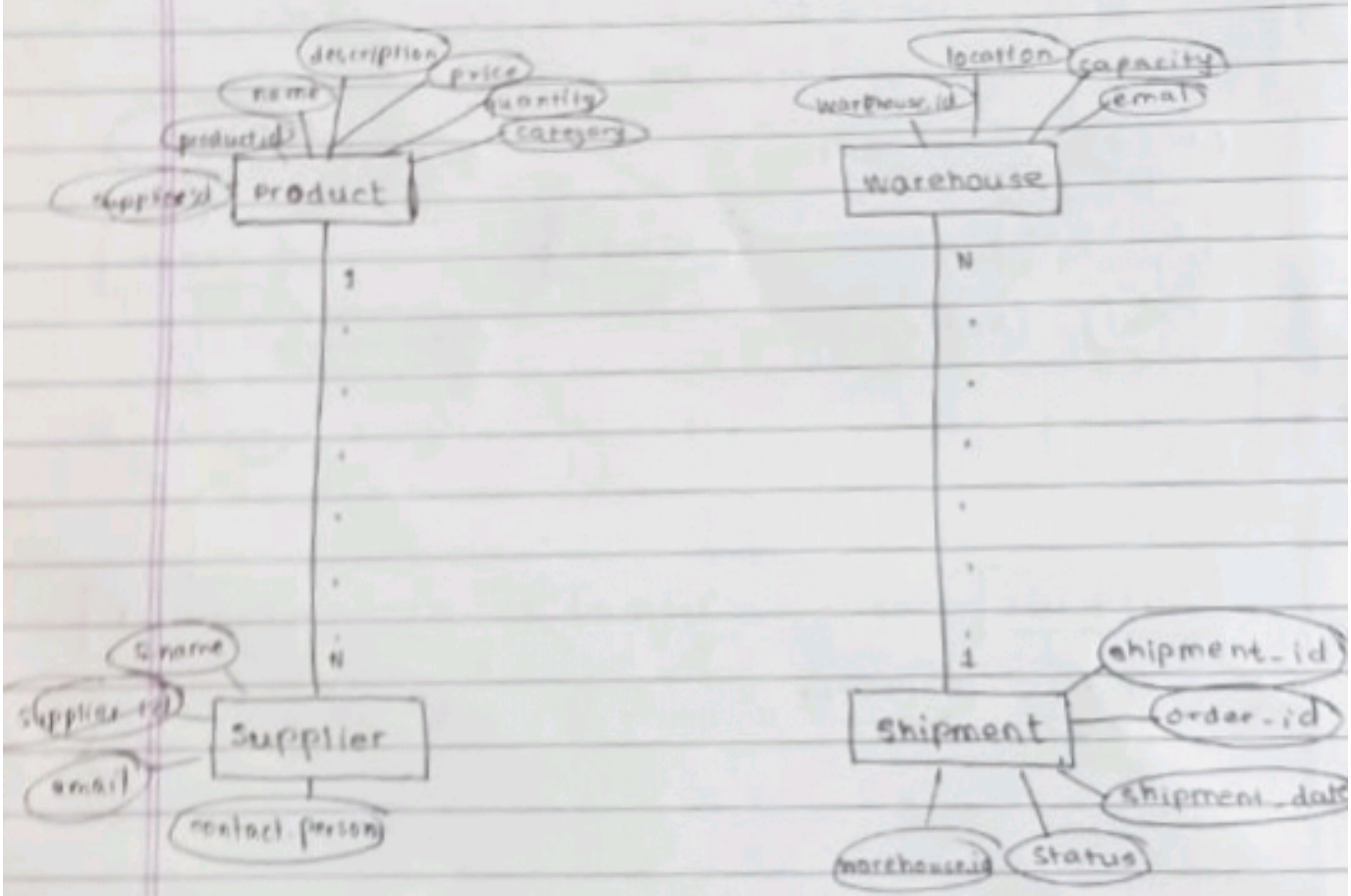


Q2. Create a conceptual ER diagram for a manufacturing company's inventory management system, including entities like products, suppliers, warehouse and shipments.

Creating a conceptual ER Diagram for a manufacturing company's inventory management system

1. Entities:
   - Product
   - Shipments
   - Warehouses
   - Suppliers

2. Attributes:
   - Products: productid(PK), price, name, description, quantity, category, supplier id (FK)
   - Shipments: Shipmentid(PK), warehouseid(FK), shipment_date
   - Warehouses: warehouseid(PK), location, capacity, email
   - Suppliers: supplierid(PK), contact_person, name, email

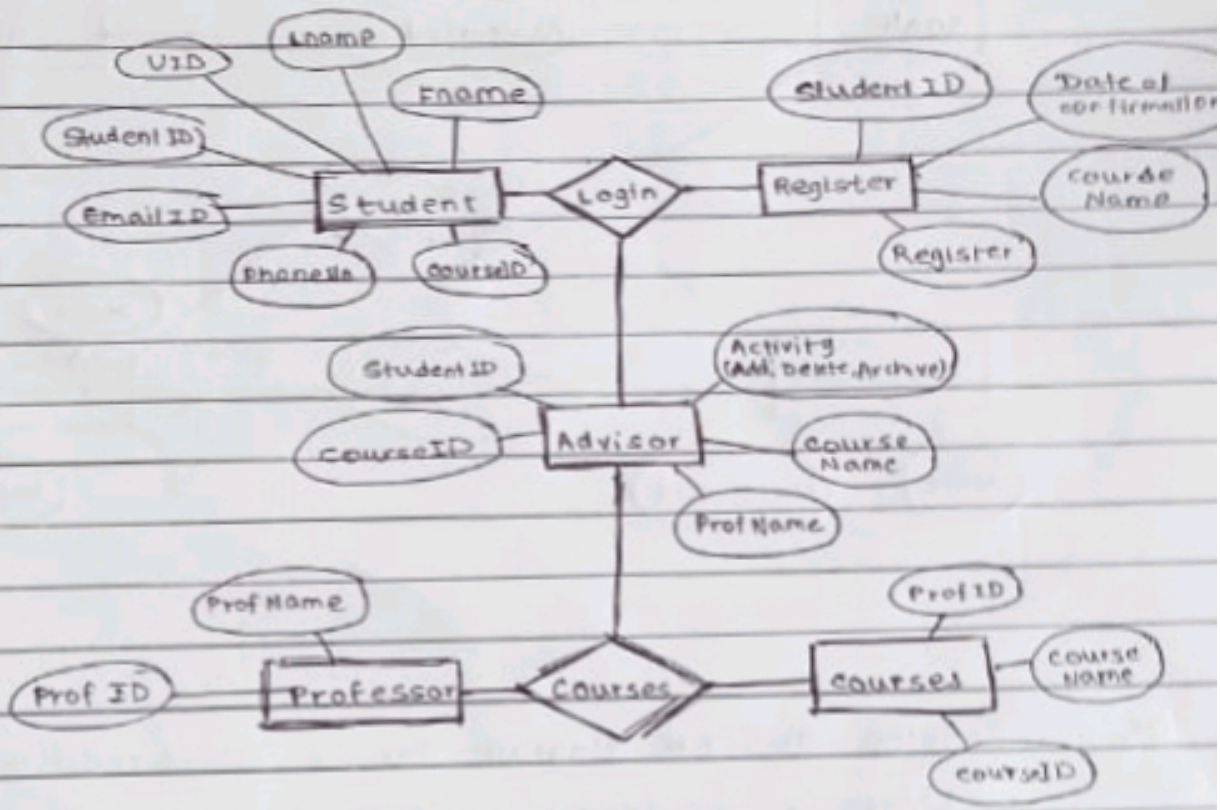


Q3. Given a scenario involving a university's student registration system, design and ER diagram illustrating the entities, attribute & relationships involved

ER for University's student registration system:

1. Entities:
   - Student
   - Registrar
   - Advisor
   - Course
   - Professors

2. Attributes
   - Student: student id (PK), name, phoneNo & courseid (FK)
   - Registrar: regisNo (PK), studentid (FK), course Name
   - Advisor: student id (FK), Course Name, Prof Name, Courseid
   - Course: courseid (PK), courseName, ProfID(FK)
   - Professors: ProfID(PK), Prof Name

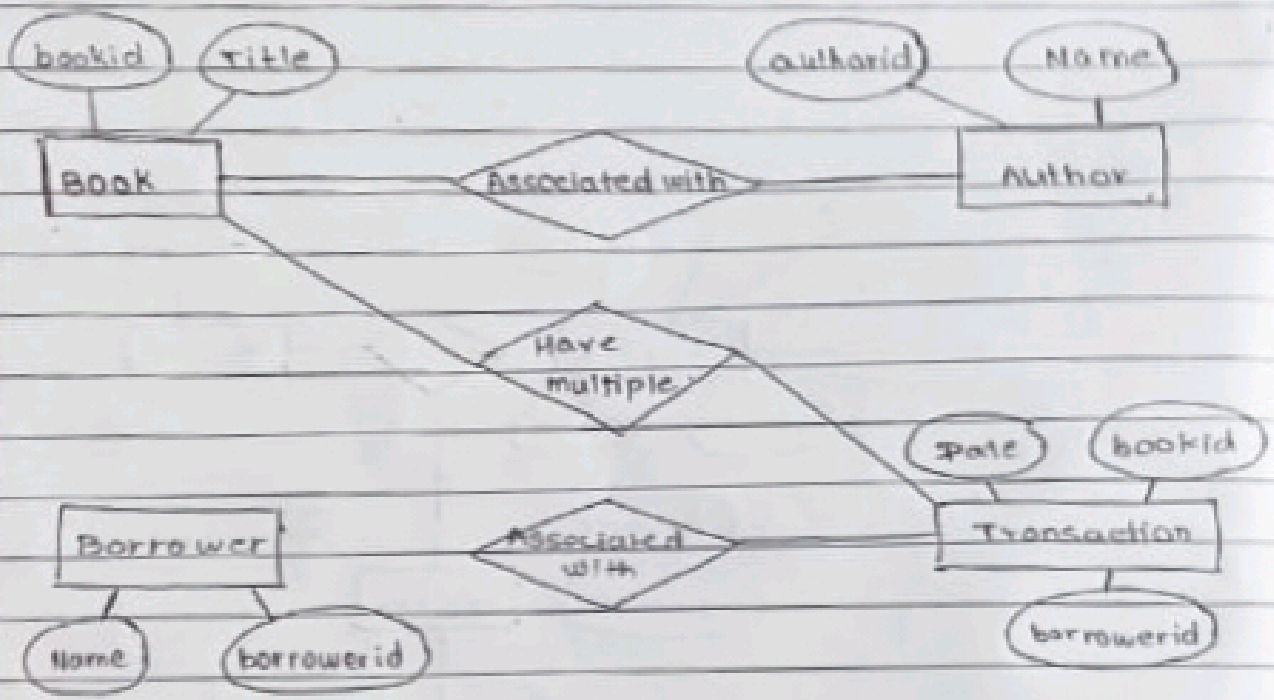


Q4. Create an ER diagram for a library management system, including entities such as books, authors, borrower and transaction.

ER diagram for a library management system

1. Entities
   - Book
   - Authors
   - Transaction
   - Borrowers

2. Attributes
   - Books: bookid(PK), title
   - Authors: authorid(PK), Name
   - Transactions: bookid(FK), borrowerid(FK), date
   - Borrowers: borrowerid(PK), Name



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

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PAGE NO:
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ER diagram for a social media platform