

2/3/2024

Spring 2024 Project 1 Part 1Entities: We have 3 given entities. They are as below.

- Member
- Product
- Transaction

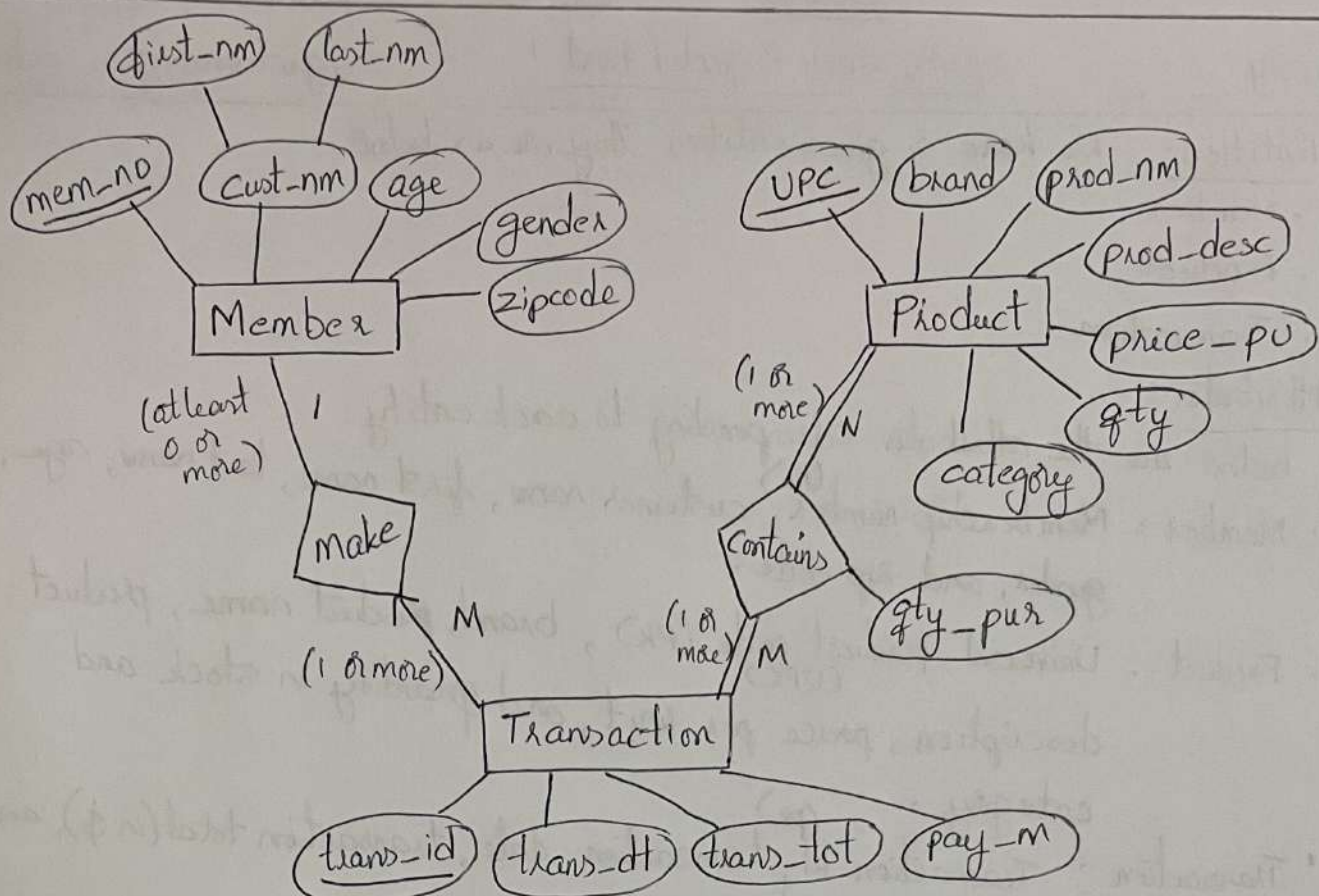
Attributes:

Below are the attributes corresponding to each entity.

- Member: Membership number^(PK), customer name, first name, last name, age, gender, and zip code.
- Product: Universal Product code^(UPC) (PK), brand, product name, product description, price per unit, and quantity in stock and category.
- Transaction: Transaction id^(PK), transaction date, transaction total (in \$), and payment method.

Relationships:

- Member makes Transaction (1:M)
 - Each member can make zero or more transactions.
 - Each transaction is made by exactly one Member.
- Transaction includes Product (M:N)
 - Each transaction includes one or more Products.
 - Each Product can be included in one or more Transactions.
 - The "Quantities Purchased" is with the relationship between Transaction and Product.



Assumptions for the Attributes:

Member

1. Membership number (mem-no)
2. Customer name (cust-nm)
3. first name (first-nm)
4. last name (last-nm)

Product

1. Universal Product code (UPC)
2. product name (prod-nm)
3. product description (prod-desc)
4. price per unit (price-pu)
5. quantity (qty)

Transaction

1. Transaction ID (trans-id)
2. Transaction date (trans-dt)
3. Transaction total (trans-tot)
4. Payment method (pay-m)
1. Quantities purchased (qty-pur)