

## CS443 – Assignment 2

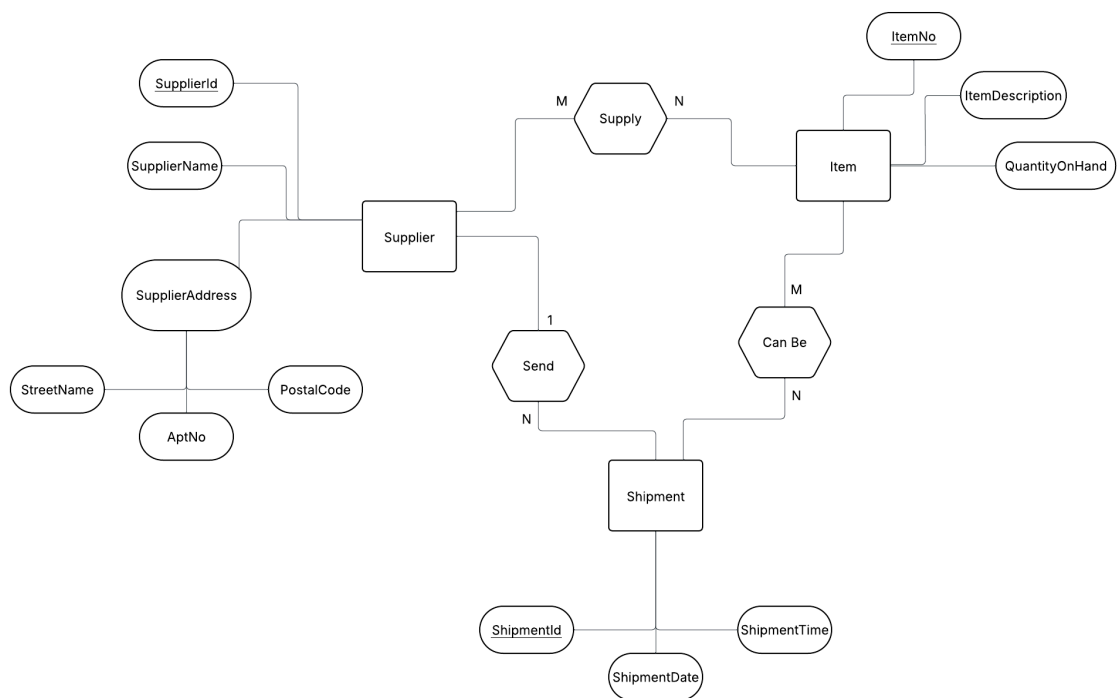
### Question 1:

Consider the following information:

Supplier: SupplierId, SupplierName, SupplierAddress (The address consists of StreetName, AptNo, PostalCode)  
Shipment: ShipmentId, ShipmentDate, ShipmentTime  
Item: ItemNo, ItemDescription, QuantityOnHand

One supplier can send many shipments; however, a particular shipment is only sent by one supplier. One item can be in many shipments and a shipment can include many items. A supplier can supply many items and a particular item can also be supplied by many suppliers.

#### a) Create your ERD.



#### b) Create associated tables

Supplier: ( SupplierId, SupplierName, SupplierAddress, StreetName, AptNo, PostalCode )

Shipment: ( ShipmentId, ShipmentDate, ShipmentTime, SupplierId\* )

Item: ( ItemNo, ItemDescription, QuantityOnHand )

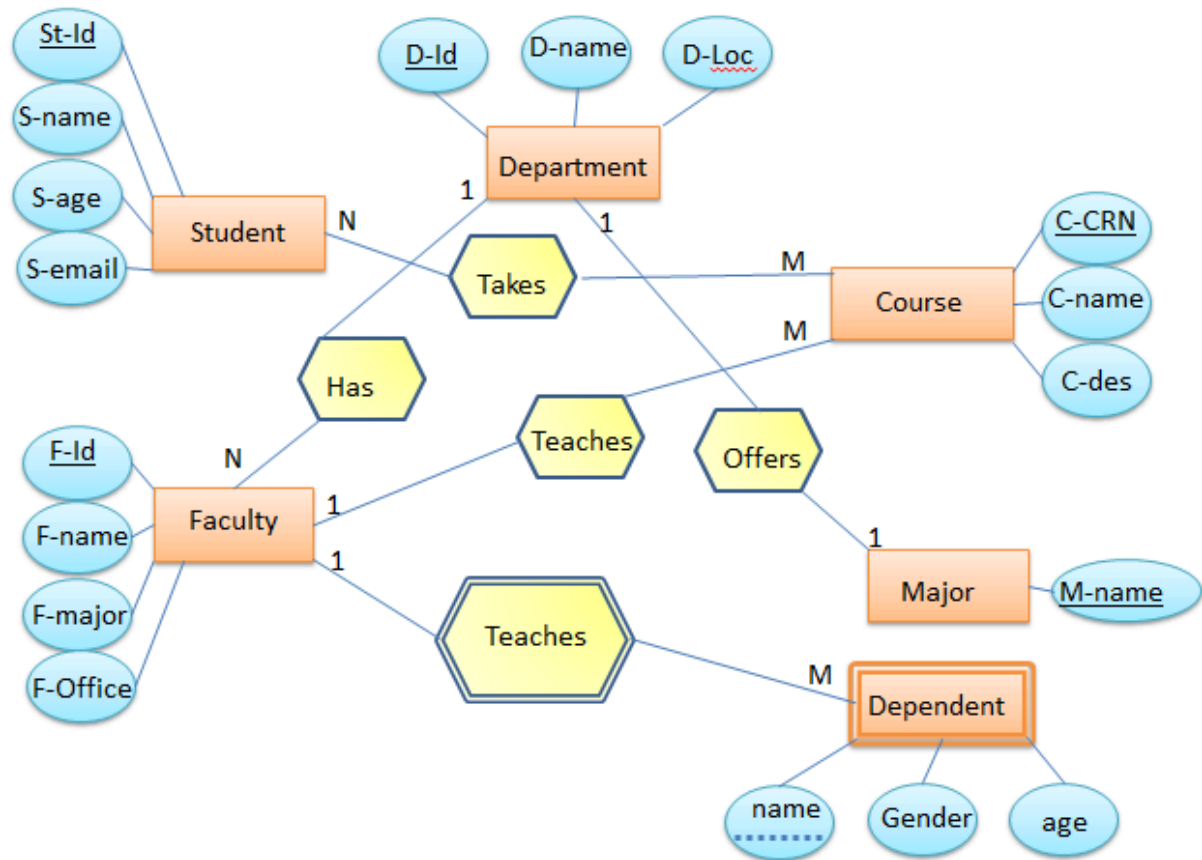
Can Be: ( ItemNo\*, ShipmentId\* )

Supply: ( SupplierId\*, ItemNo\* )

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### Question 2:

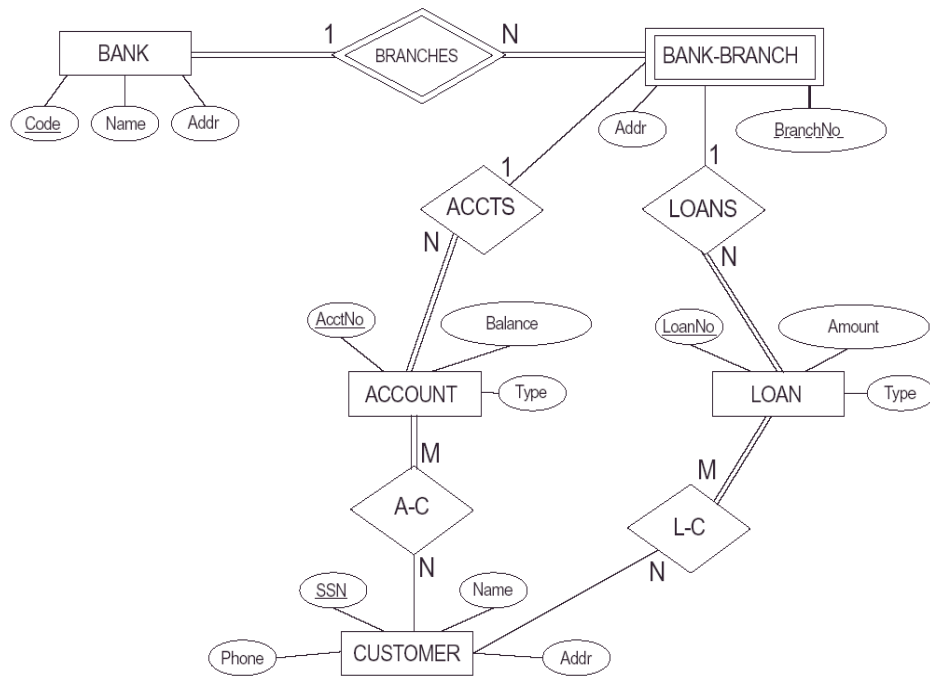
Provide the tables for the following ERD



Student: ( St-Id , S-name, S-age, S-email )  
 Department: ( D-Id , D-name, D-Loc )  
 Course: ( C-CRN , C-name, C-des, F-Id\* )  
 Major: ( M-name , D-Id\* )  
 Dependent: ( name , Gender, age, F-Id\* )  
 Faculty ( F-Id , F-name, F-major, F-Office, D-Id\* )  
 Takes ( St-Id\* , C-CRN\* )

### Question 3:

Provide the tables for the following ERD



Bank: ( Code , BankName, BankAddr )

Bank-Branch: ( BranchNo , BBAddr, Code\* )

Account: ( AcctNo , Balance, AccountType, BranchNo\* , Code\* )

Loan: ( LoanNo , Amount, LoanType, BranchNo\* , Code\* )

Customer: ( SSN , Phone, CustomerName, CustomerAddr )

A-C: ( SSN\* , AcctNo\* )

L-C: ( SSN\* , LoanNo\* )