

CS443 – Lab 2

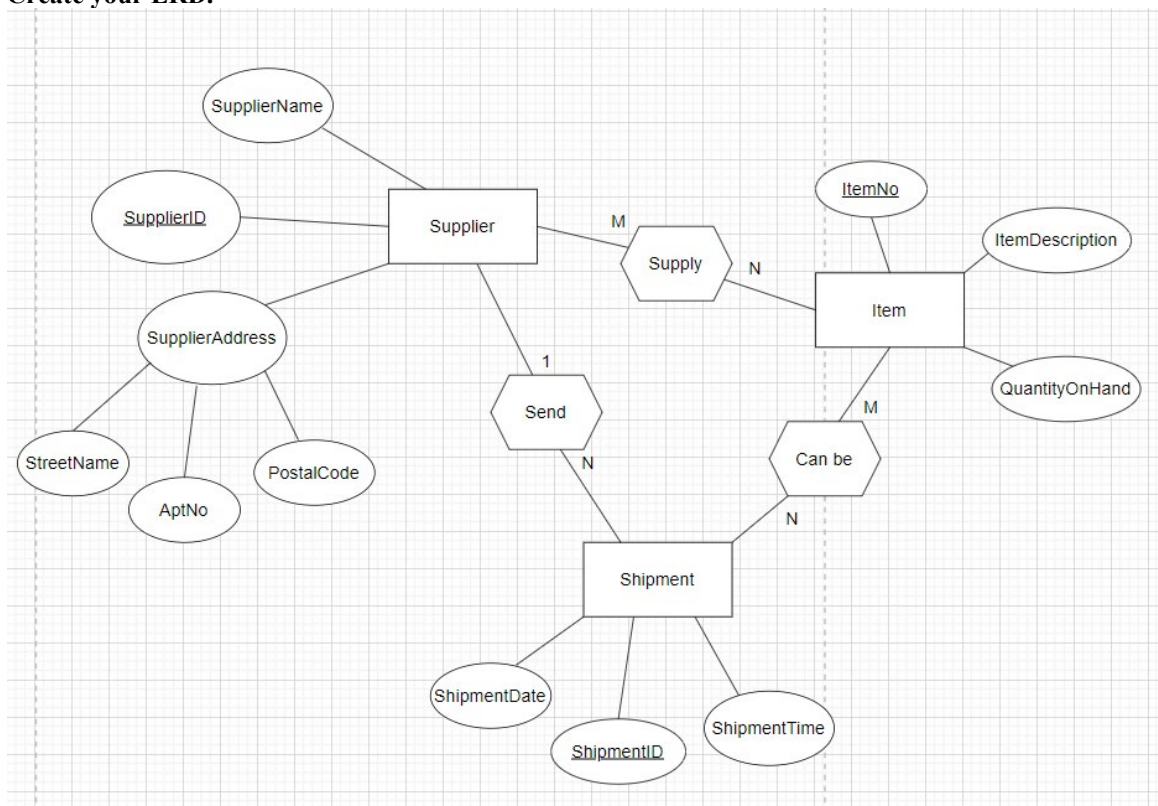
Question 1:

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*)

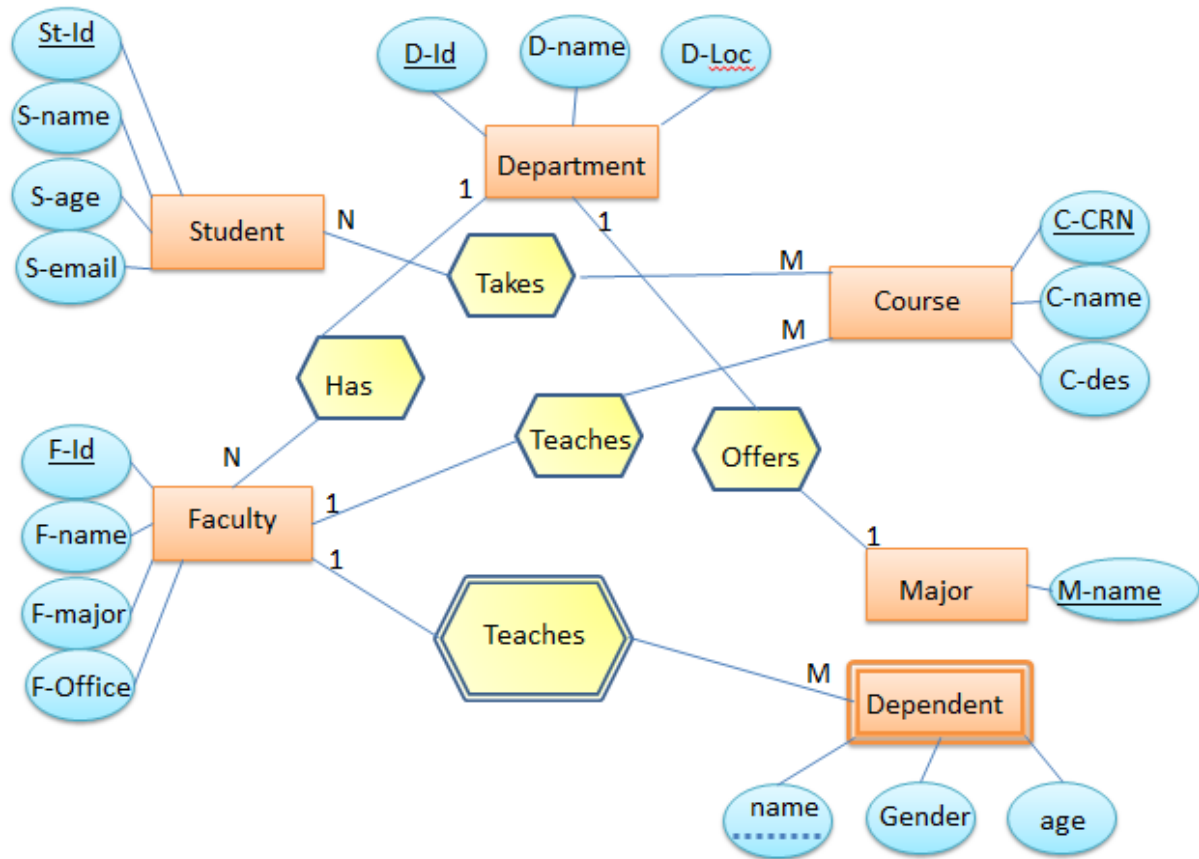
Item(ItemNo, ItemDescription, QuantityOnHand)

CanBe(ShipmentID*, ItemNo*)

Supply(SupplierID*, ItemNo*)

Question 2:

Provide the tables for the following ERD



Student(St-Id, S-name, S-age, S-email)

Faculty(F-Id, F-name, F-major, F-Office, D-Id*)

Department(D-Id, D-name, D-Loc)

Course(C-CRN, C-name, C-des, F-Id*)

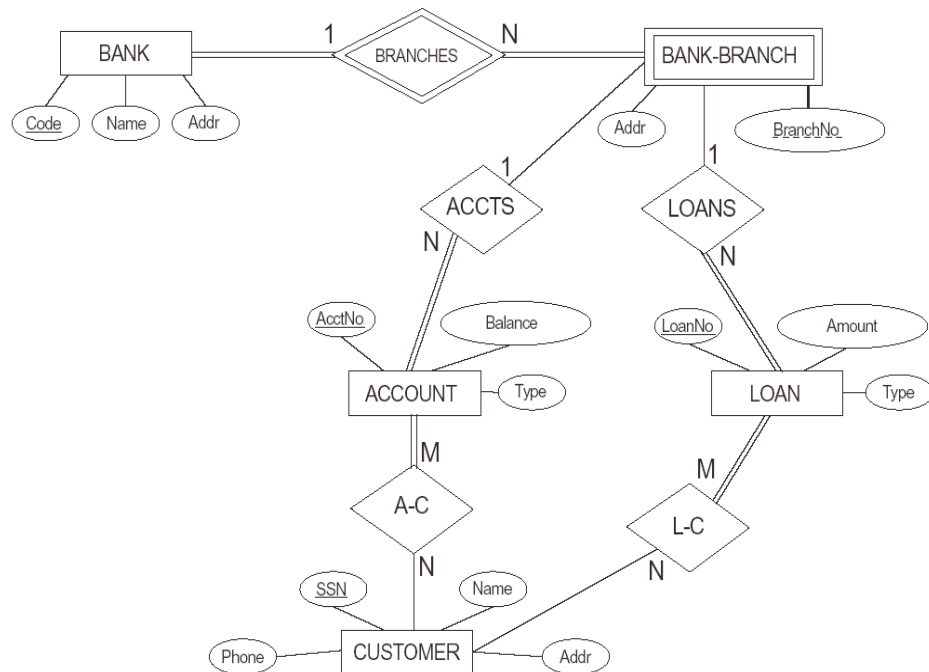
Major(M-name, D-Id*)

Dependent(F-Id*, name, gender, age)

Takes(St-Id*, C-CRN*)

Question 3:

Provide the tables for the following ERD



Bank(Code, BankName, BankAddr)

Bank-Branch(BranchNo, Code*, BBAddr)

Account(AcctNo, Balance, AccountType, BranchNo*)

Loan(LoanNo, Amount, LoanType, BranchNo*)

Customer(SSN, Phone, CustomerName, CustomerAddr)

A-C(SSN*, AcctNo*)

L-C(SSN*, LoanNo*)