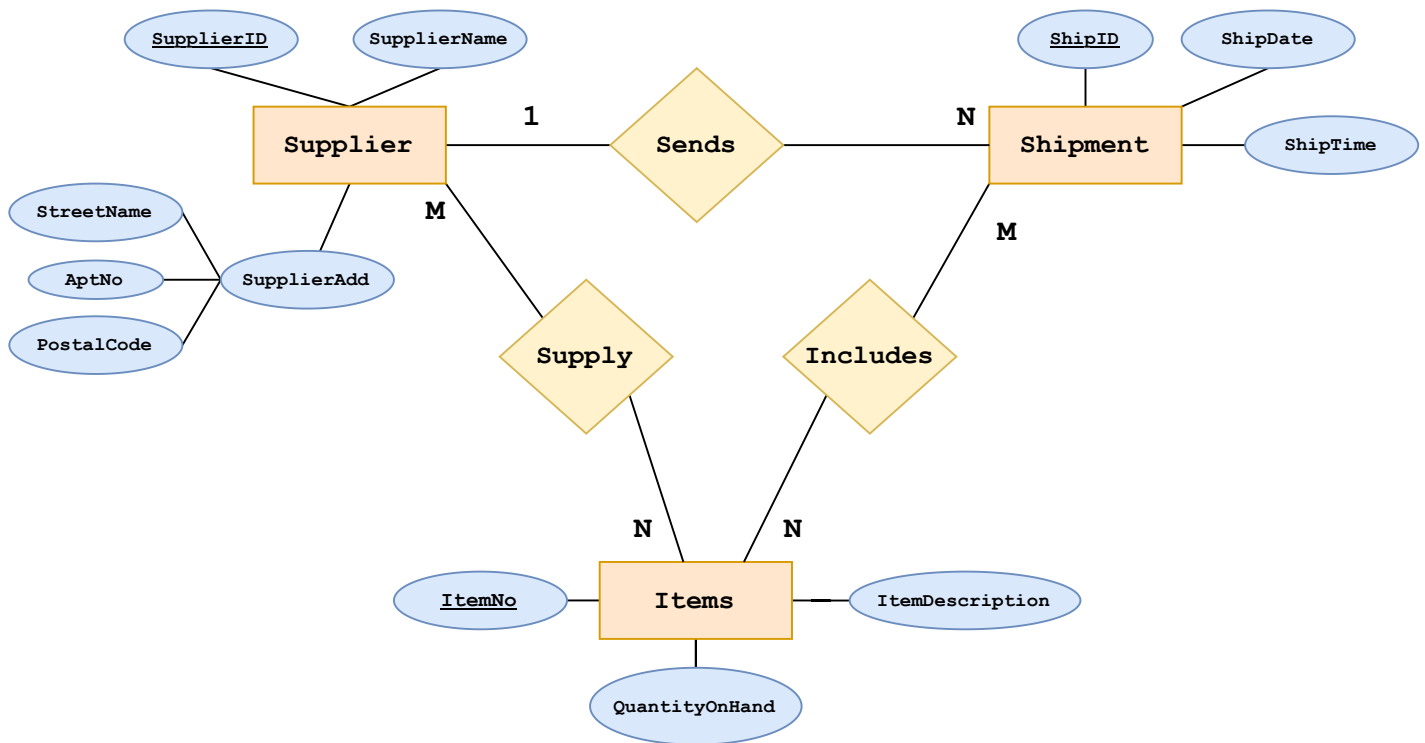**Question 1:**

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**

1a) ERD

1b) Associated Tables

Supplier(<u>SupplierID</u>, SupplierName, StreetName, AptNo, PostalCode)

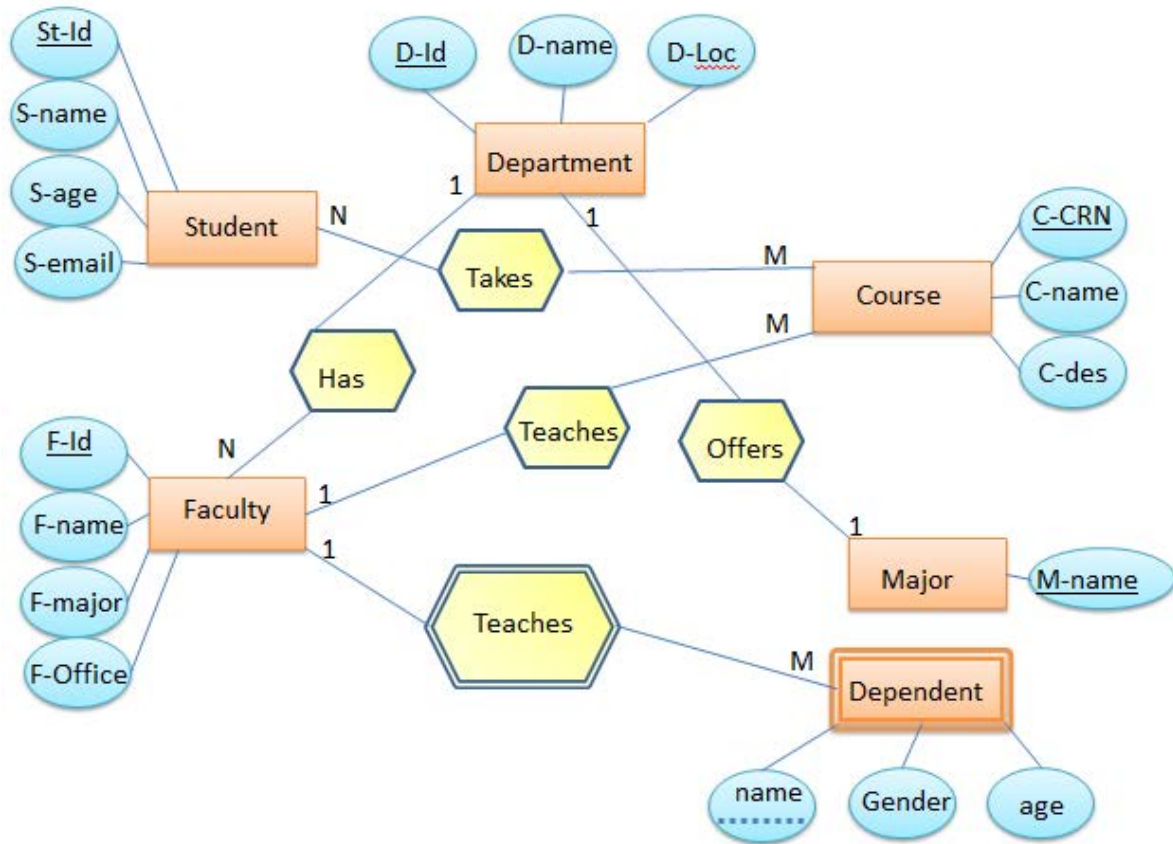**Shipment(<u>ShipID</u>, ShipDate, ShipTime, SupplierID*)**

Item(<u>ItemNo</u>, ItemDescription, QuantityOnHand)

Supply(<u>SupplierID*, ItemNo*</u>)

Includes(<u>ShipID*, ItemNo*</u>)

Provide the tables for the following ERD

Student(<u>St-Id</u>, S-name, S-age, S-email)

Department(<u>D-Id</u>, D-name, D-Loc, M-name*)

Course(<u>C-CRN</u>, C-name, C-des, F-Id*)

Faculty(<u>F-Id</u>, F-name, F-major, F-Office, D-Id*)
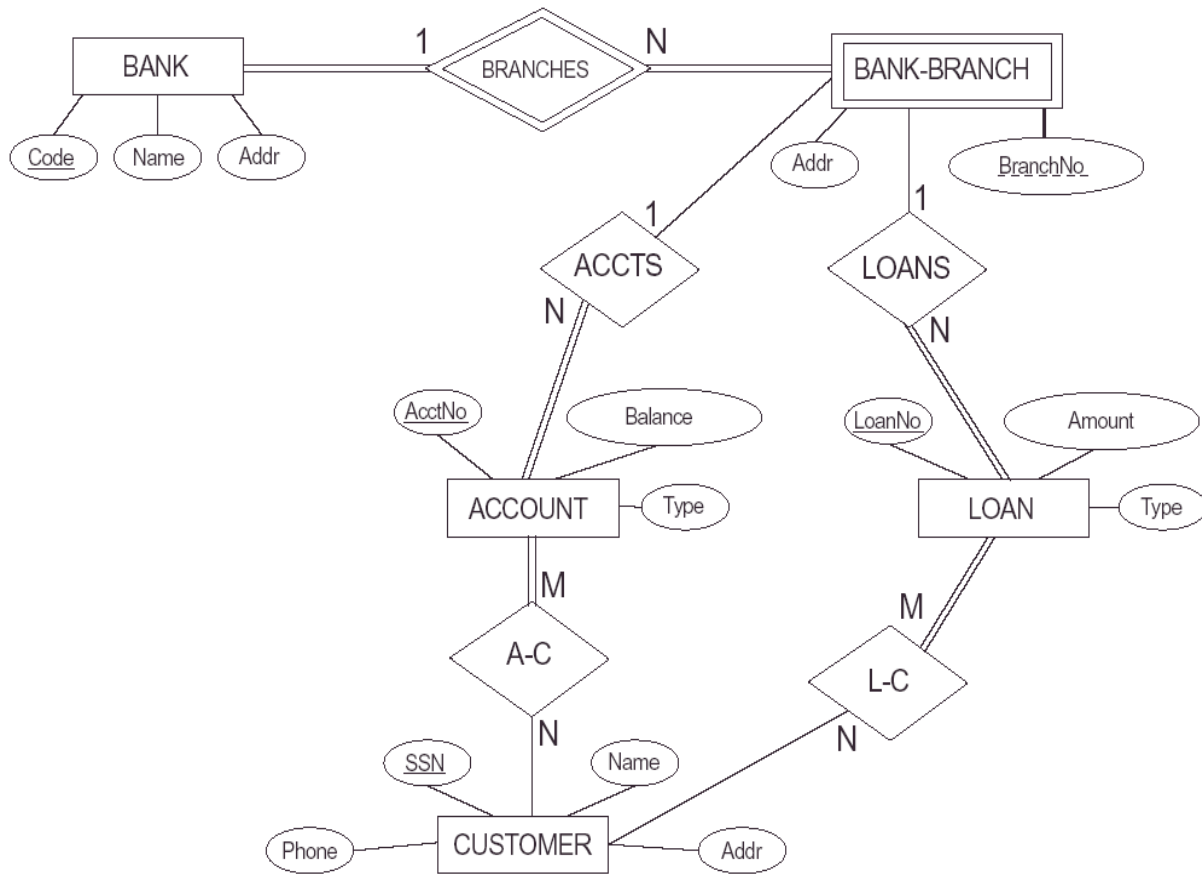Major(<u>M-name</u>)

Dependent(<u>F-Id*</u>, <u>name</u>, Gender, age)

Takes(<u>St-Id*</u>, <u>C-CRN*</u>)

Question 3:

Provide the tables for the following ERD

Bank(<u>Code</u>, Name, bankAddr)

Account(<u>AcctNo</u>, Balance, Type, (Code, BranchNo)*)
Customer(<u>SSN</u>, Name, Phone, custAddr)

Loan(<u>LoanNo</u>, Amount, Type, (Code, BranchNo)*)

Bank-Branch(<u>Code</u>*, <u>BranchNo</u>, branchAddr)

A-C(<u>AcctNo</u>*, <u>SSN</u>*)

L-C(<u>LoanNo</u>*, <u>SSN</u>*)