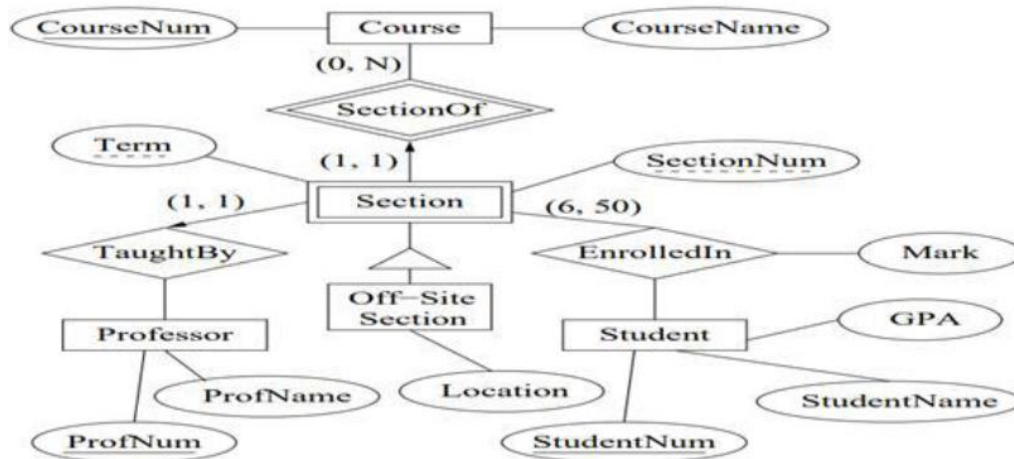# EXERCISE 6

Date: 16/09/2022

1. Convert ER-diagram into relational database and to create the table for the relation by properly specifying the primary keys and foreign keys.

2. **Product (BarCode, PName, Price, QuantityInStock)**
   Sale (SaleID, DeliveryAddress, CreditCard)
   SaleItem (SaleID, BarCode, Quantity)

   Create a trigger called updateAvailableQuantity that updates the quantity in stock in the Product table, for every product sold. The trigger should be executed after each insert operation on the SaleItem table: for the product with the given barcode (the one inserted into SaleItem), update the available quantity in Product table to be the old quantity minus the sold quantity.

3. create the following tables with given attributes by specifying appropriate primary key and foreign keys. Tables should be created with necessary constraints which enables to perform on delete, on update cascade functions and self-referential integrity constraints.
   Employee(empNo, empName, jobPosition, managerId, salary)
   Department(department number, department name)
   Company(empNo, department number, joining date)

   Perform the following functions.
   i.   On delete cascade
   ii.   On update cascade
   iii.   Self-referential integrity constraint.