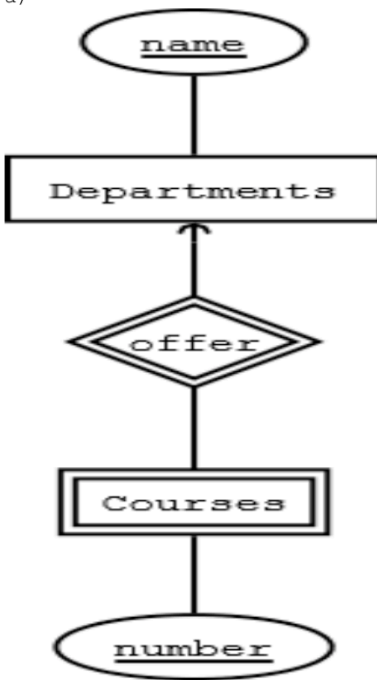


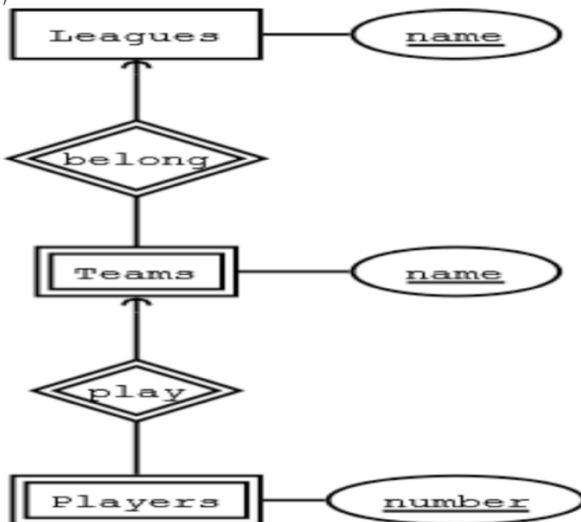
## HW8 Solution

4.4.4

a)



b)



#### 4.5.1

Customers (SSNo, name, addr, phone)

Flights (number, day, aircraft)

Bookings (custSSNo, flightNo, flightDay, row, seat)

Relations for toCust and toFlt relationships are not required since the weak entity set Bookings already contains the keys of Customers and Flights.

#### 4.6.1

The weak relation Courses has the key from Depts along with number. Hence there is no relation for GivenBy relationship.

(a)

Depts (name, chair)

Courses (number, deptName, room)

LabCourses (number, deptName, allocation)

(b) LabCourses has all the attributes of Courses.

Depts (name, chair)

Courses (number, deptName, room)

LabCourses (number, deptName, room, allocation)

(c) Courses and LabCourses are combined into one relation.

Depts (name, chair)

Courses (number, deptName, room, allocation)