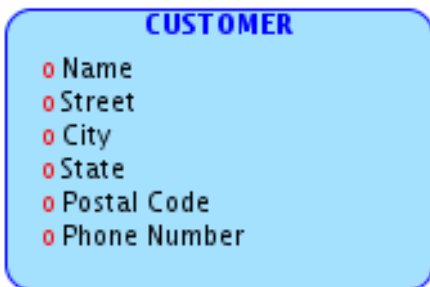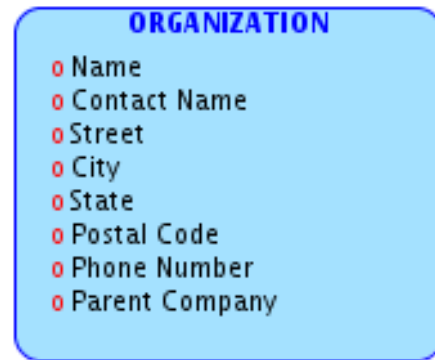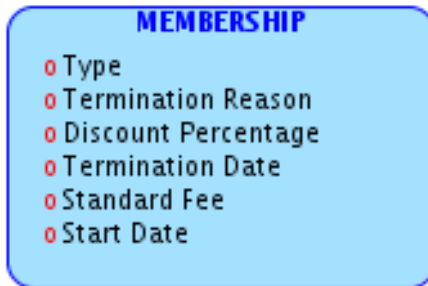# Practices for Lesson 7: Identifying Relationships

Chapter 7

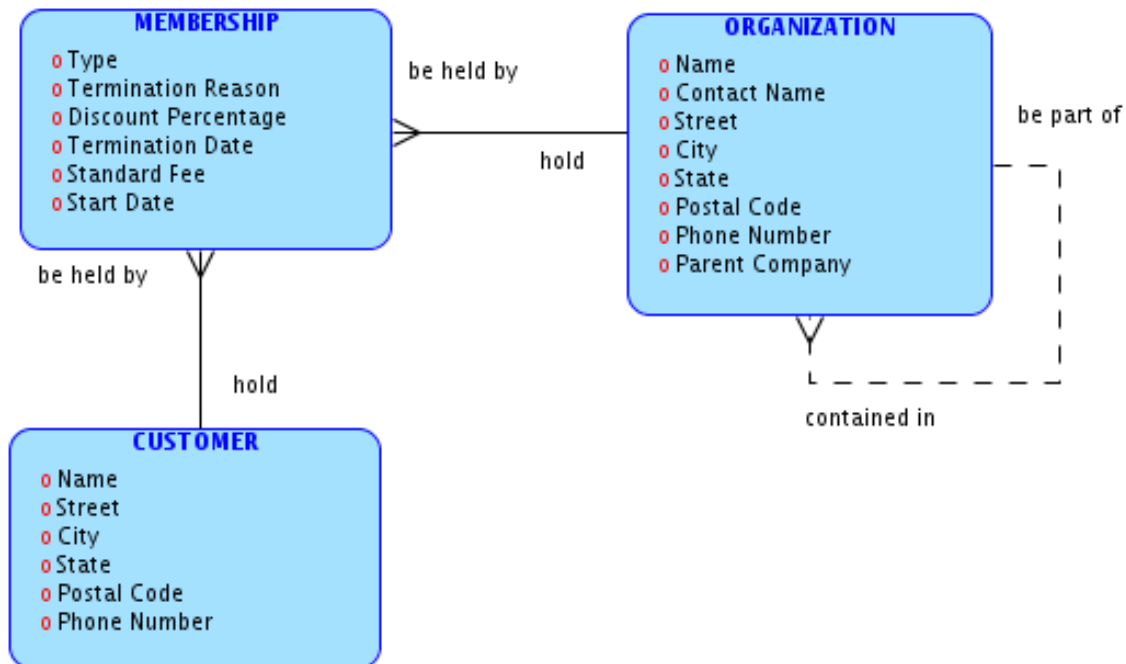# Practice 7-1: Analyze and Model Relationships

Task

In this practice, you analyze and model the relationships for the following entities, which you created in the Online Movie Rental Membership practice (Practice 6-1). Use a relationship matrix to track the existence of relationships between the entities, and then draw the relationships in the diagram.

MEMBERSHIP
- o Type
- o Termination Reason
- o Discount Percentage
- o Termination Date
- o Standard Fee
- o Start Date

ORGANIZATION
- o Name
- o Contact Name
- o Street
- o City
- o State
- o Postal Code
- o Phone Number
- o Parent Company

CUSTOMER
- o Name
- o Street
- o City
- o State
- o Postal Code
- o Phone Number

Solution 7-1: Analyze and Model Relationships

One solution to this practice is:

	MEMBERSHIP	ORGANIZATION	CUSTOMER
MEMBERSHIP		be held by	be held by
ORGANIZATION	hold	be part of / contained in	
CUSTOMER	hold		

Practice 7-2: Analyze and Model Relationships

Tasks

In this practice, you analyze and model the relationships for the following entities, which you created in Practice 6-2. Use a relationship matrix to track the existence of relationships between entities, and then draw the relationships in the diagram.

GUEST
- o Name
- o Street
- o City
- o State
- o Postal Code
- o Phone Number

RESERVATION
- o Hotel
- o Guest
- o Room
- o Date of Stay
- o Price

HOTEL
- o Name
- o Location ID
- o Manager
- o Phone Number

ROOM
- o Number of Beds
- o Price
- o Smoking
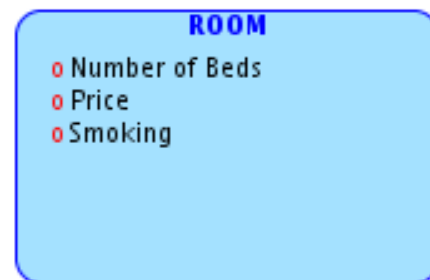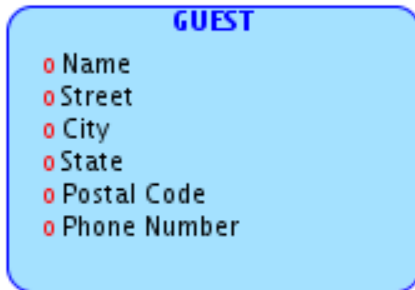
Solution 7-2: Analyze and Model Relationships

One solution to this practice is:

	GUEST	HOTEL	ROOM	RESERVATION
GUEST				make
HOTEL			contain	
ROOM		located in		booked in
RESERVATION	made by		booked for	

GUEST
- o Name
- o Street
- o City
- o State
- o Postal Code
- o Phone Number

make / made by

RESERVATION
- o Hotel
- o Guest
- o Room
- o Date of Stay
- o Price

booked for / booked in

HOTEL
- o Name
- o Location ID
- o Manager
- o Phone Number

contain / located in

ROOM
- o Number of Beds
- o Price
- o Smoking
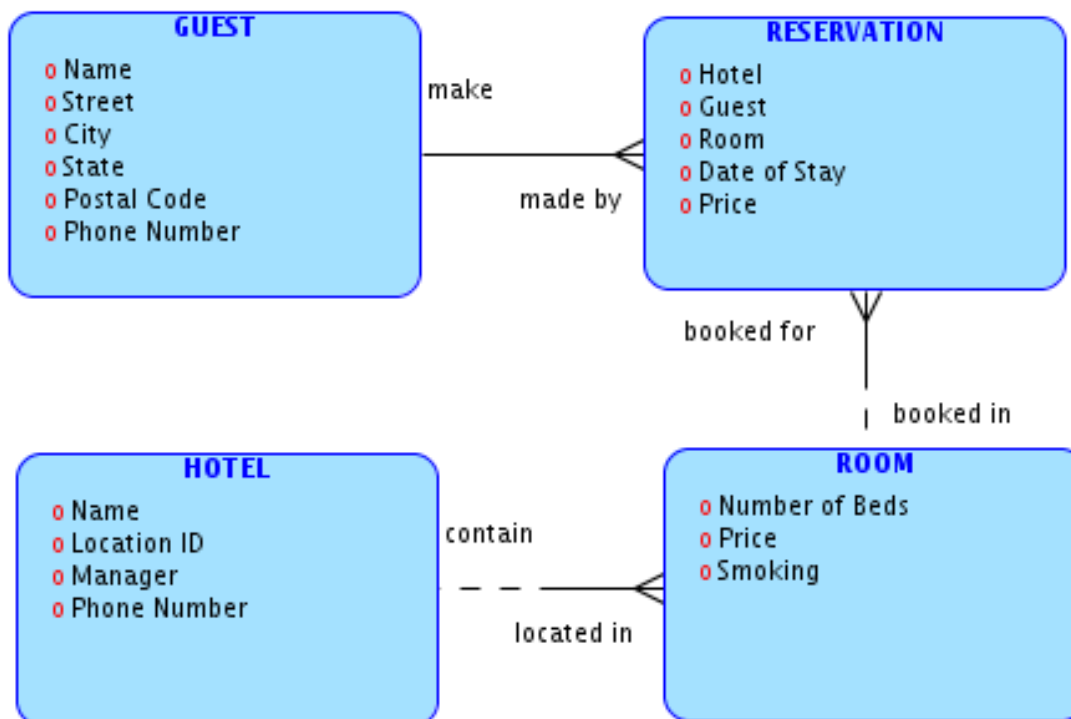
Lesson 7 Class Practice: Define Business Rules

The solution for this practice is as follows:

An ORDER must be issued for one or more ITEMs.

An ITEM may be contained on one or more ORDERs.

An ORDER must be placed by one and only one CUSTOMER.

A CUSTOMER may place one or more ORDERs.

An ITEM may be stored in one and only one WAREHOUSE.

A WAREHOUSE may store one or more ITEMs.

Lesson 7 Class Practice: Build a Relationship Matrix

The solution to this practice is as follows:

	COURSE	STUDENT	INSTRUCTOR
COURSE		taken by	taught by
STUDENT	enrolled in		
INSTRUCTOR	teach		