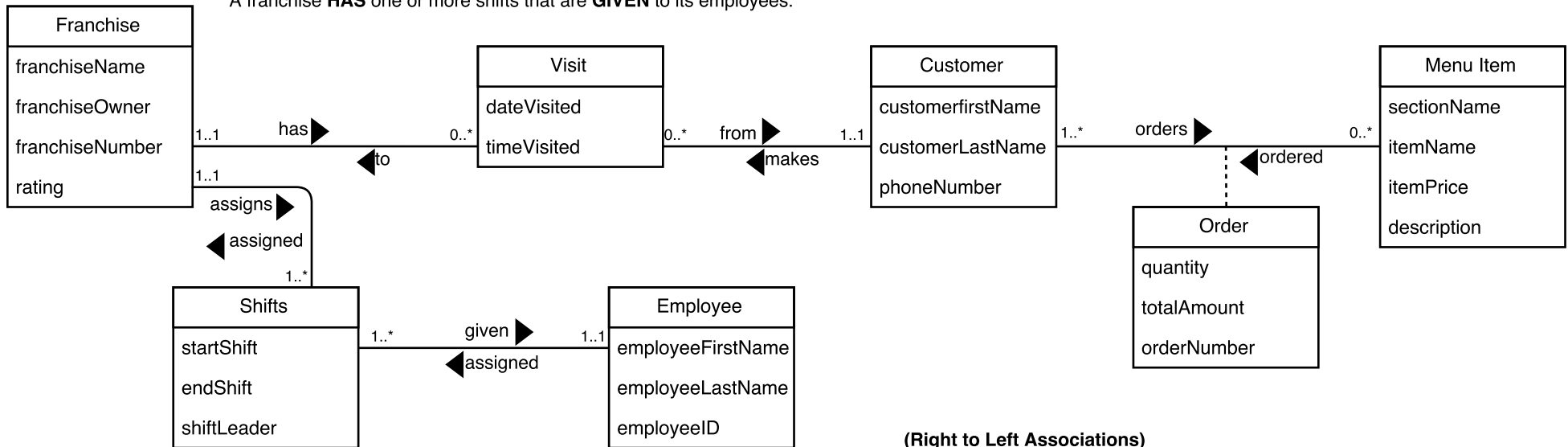


UML Diagrams

(Left to Right Associations)

A franchise **HAS** zero or more visits **FROM** a customer. A customer **ORDERS** zero or more items menus from the franchise.
A franchise **HAS** one or more shifts that are **GIVEN** to its employees.



(Right to Left Associations)

A menu item is **ORDERED** by one or more customers.
A customer **MAKES** zero or more visits **TO** that one franchise.
An employee is **ASSIGNED** shifts that are **ASSIGNED** by the franchise.

Business Rules

A franchise composed of its name, owner, and unique number has many visits from one customer. A customer can visit a franchise several time a day and even at different days. A customer can be uniquely identified by their phone number and can make many orders of several menu items from the franchise. The order is composed of the quantity and total amount for the menu items that the customer wants. Each menu item is part of a section of the menu and each item has a name, price, and brief description.

A franchise composed of its name, owner, and unique number has many employees. Each employee has a shift that determines their work schedule. Each employee has a unique ID to establish that they are working for that franchise. Each shift has a shift leader depending on different schedules for the franchise.

English Descriptions

Franchise: A business established to cater customers, in this case, revolving around the fast-food market. The individual business has one owner or manager and has a unique number to distinguish it from other similar businesses. Each individual business gets a rating for how well the business is doing in terms of health and safety.

Visit: The instance that a customer goes to a particular franchise in terms of the date and time the customer went to the franchise.

Customer: A person who visits a franchise for the purpose of buying food for consumption. Each person has a unique phone number for unique identification reasons.

Order: The details about the menu items that a customer has chosen. It is described in terms of how much menu items the customer has chosen and the total amount for the purchase. Each purchase is uniquely identified by a number that is called on when the customer's items are ready.

Menu Item: Individual products that the customer can order. It is composed of having a name and a number associated with the product as well as the price and a brief description of the item.

Shifts: The time and date for when an employee should work. There is usually a different person in charge depending on the schedule that the employees have.

Employee: A person who works at the franchise and earns income based on how much they work. Each person has a unique identification number that has details about their employment to the franchise.

Relational Scheme Model

Employee

employeeFirstName	employeeLastName	employeeID
Candidate Key		Primary Key

1..1

1..*

Shifts

startShift	endShift	shiftLeader	employeeID	franchiseName	franchiseNumber
Primary Key				Foreign Key	

1..*

1..1

Franchise

Primary Key			
franchiseOwner	franchiseName	franchiseNumber	rating
Candidate Key	Primary Key		

1..1

1..*

Visit

Foreign Key				
dateVisited	timeVisited	franchiseName	franchiseNumber	phoneNumber
Primary Key		Foreign Key		

1..1

1..*

Customer

Primary Key		
customerFirstName	customerLastName	phoneNumber
Primary Key		

1..1

0..*

Order

Foreign Key					
quantity	totalAmount	phoneNumber	itemName	itemNumber	orderNumber
Foreign Key					Primary Key

1..*

Menu Item

Primary Key				
sectionName	itemName	itemNumber	itemPrice	description

1..1