English Descriptions

DVD Rental Kiosk: A machine where a customer can get a DVD to watch. The status of the machine shows if it is available or not. Different machines are located at different addresses.

Customer: A person who wants to rent a movie from the kiosk machine. The person has a unique id to identify them.

Rental: The process of borrowing a movie according to the date and time of going to the kiosk machine. Based on the amount of the total DVDs to be borrowed there will be a total cost of all the DVDs.

Rental Details: Details about a rental of a DVD involving the invoice number, title of the DVD, and the copy number of the DVD

DVD: A physical media platform usually described by different details found in a search entry. There can be many copies for the disc so a copy number is unique.
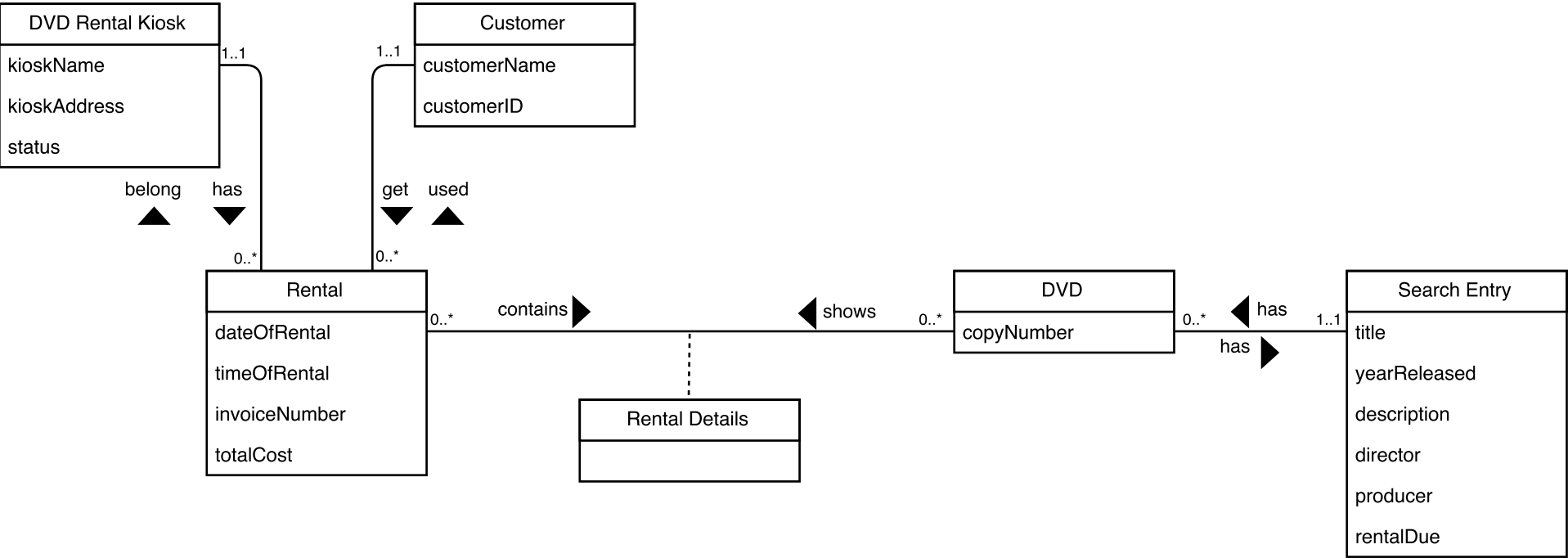
Search Entry: Details regarding the customer's search on a DVD. This usually involves the title of the movie, the year released, description, director, producer, rental due date.

English Associations

(Left to RIght)
A DVD rentals **HAS** zero or more customers and a customer **GETS** zero or more rentals.
A rental **CONTAINS** zero or more DVDs.
A DVD **HAS** one and only one search entry

(Right to Left)
A search entry **HAS** zero or more DVDs.
A DVD **SHOWS** zero or more rentals.
A rental **BELONGS** to one and only DVD rental kiosk.
A customer **USES** one and only one rental

UML Diagrams

Relational Scheme Model

DVD Rental Kiosk

kioskName	kioskAddress	status
PK		

Customer

customerName	customerID
	PK

1..1 (DVD Rental Kiosk)

1..1 (Customer)

0..* (Customer)

FK

Rental

0..*

FK					
kioskName	kioskAddress	dateOfRental	timeOfRental	dateRentalDue	customerID	invoiceNumber
						PK

1..1

0..*

FK

Rental Details

title	copyNumber	invoiceNumber
FK		PK

0..*

1..1

DVD

PK		PK
title	yearReleased	copyNumber
FK		

0..*

1..1

Search Entry

PK				
title	yearReleased	description	director	producer