

From customer to tickets  
has one to many because  
the customer has to buy  
at least one movie ticket  
but can buy more than  
one

From customer to  
concessions has zero  
to many relationships  
because the customer  
can buy zero to many  
products

From tickets to  
customer has one and  
only one relationship  
cause the ticket is  
associated with one  
customer at a time

From concessions  
to customer has zero  
or one relationships  
because either the  
customer didn't buy  
anything or  
concessions can only  
be associated with one  
customer at a time

Customers		
Primary Key	customer_id	SERIAL
	first_name	VARCHAR(50), NOT NULL
	last_name	VARCHAR(50), NOT NULL

Tickets		
FK	movie_id	INTEGER
	price	INTEGER
Foreign Key	customer_id	INTEGER
Foreign Key	theater_number	INTEGER
PK	ticket_id	SERIAL

Movies		
PK	movie_id	INTEGER
	movie_rating	VARCHAR(10)
	theater_number	INTEGER

Concessions		
PK	product_id	SERIAL
	price	INTEGER
FK	customer_id	INTEGER

From customers to  
checkout is one and  
only one relationship  
because the customer  
can only have one  
"order" at a time

From checkout\_info to  
customers is one and  
only one relationship  
because the "order" can  
only be associated with  
one customer

Checkout_info		
FK	customer_id	INTEGER
	amount	INTEGER
	purchase_date	TIMESTAMP
FK	product_id	INTEGER
FK	ticket_id	INTEGER
PK	checkout_id	SERIAL

From tickets to  
checkout\_info has 1 to  
many relationships  
because you can buy  
one or more tickets

From tickets to movies  
has 1 to many  
relationships because  
you can buy tickets for 1  
or more movies

From movies to tickets  
has 1 to many  
relationship because  
each movie has one or  
more tickets available to  
buy

From checkout\_info to  
concessions has zero to  
many relationships  
because the customer  
can buy zero items at  
concessions or many

From concessions to  
checkout\_info has 1 to  
many because you  
have to have atleast  
one item