

One customer can buy several or no concessions

Zero or many tickets can be purchased, resulting
in zero or many payments

Ticket		
Primary Key	ticket_id	SERIAL
	quantity	INTEGER
	price	NUMERIC
Foreign Key (customer)	customer_id	INTEGER
Foreign Key (movies)	movie_id	INTEGER

Customer		
Primary Key	customer_id	SERIAL
	first_name	VarChar(25)
	last_name	VarChar(25)
	is_adult	Boolean

A single customer can buy many or zero
tickets, but a single ticket can only be
purchased once

One ticket is only usable for one movie

A single ticket is only
valid for a single
movie, and visa versa

Concessions		
Primary Key	concession_id	SERIAL
	quantity	INTEGER
	price	NUMERIC
Foreign Key (customer)	customer_id	INTEGER

Movies		
Primary Key	movie_id	SERIAL
	genre	VarChar(50)
	rating	VarChar(20)
Foreign Key (ticket)	ticket_id	INTEGER

Zero or more
payments can be taken
for zero or more
concessions

Payment		
Primary Key	payment_id	SERIAL
	payment_type	VarChar(20)
	card_num_hash	INTEGER
Foreign Key (customer)	customer_id	INTEGER
Foreign Key (concessions)	concessions_id	INTEGER
Foreign Key (ticket)	ticket_id	INTEGER

Payments can only
come from a single
customer, but that
customer can make
multiple payments for
more than one movie
or concession