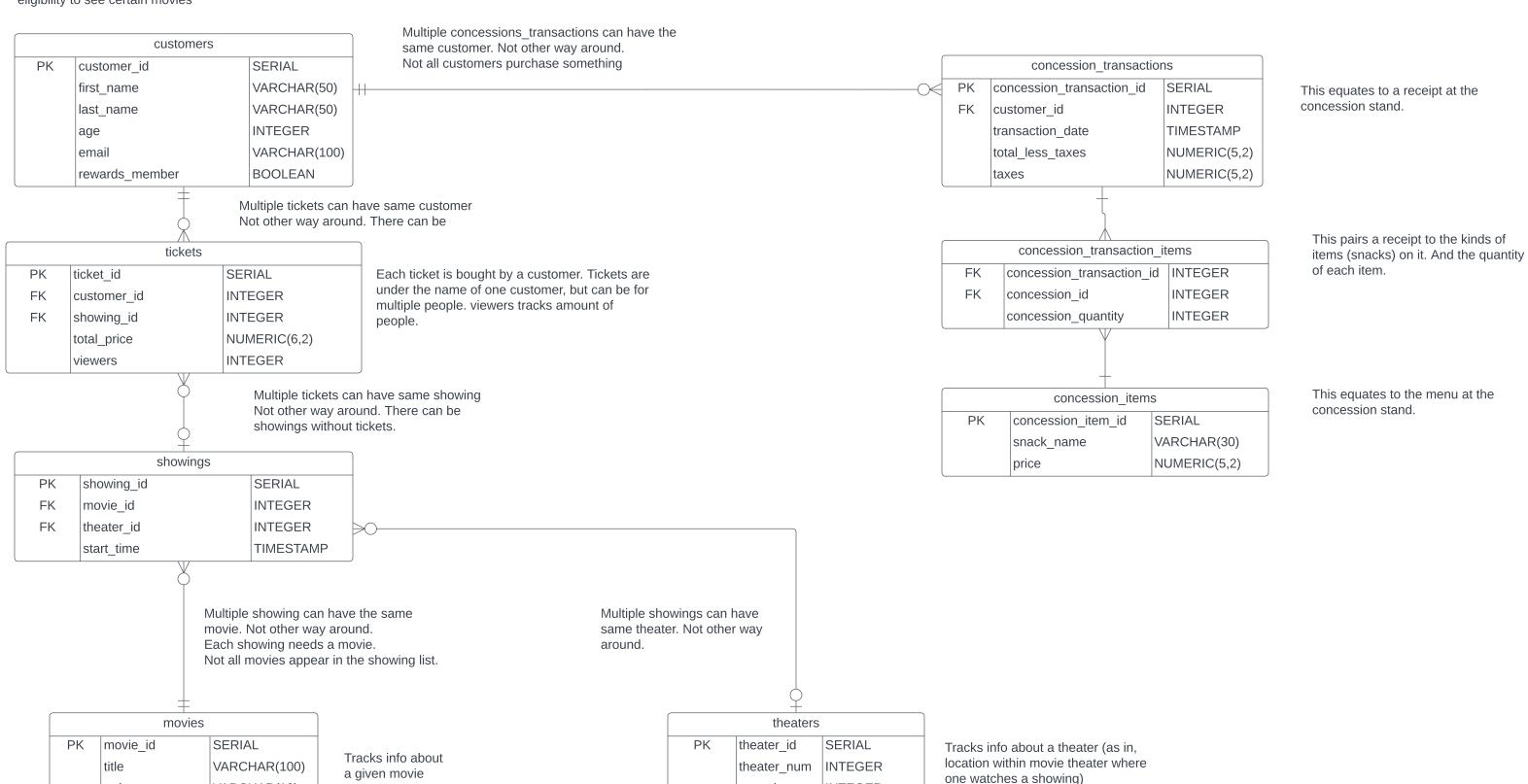# Movie Theater Database ERD

Establishes customers
Rewards member is tracked because it may affect prices
Age tracked because used in price discounts and
eligibility to see certain movies

Multiple concessions_transactions can have the
same customer. Not other way around.
Not all customers purchase something

customers

PK	customer_id	SERIAL
	first_name	VARCHAR(50)
	last_name	VARCHAR(50)
	age	INTEGER
	email	VARCHAR(100)
	rewards_member	BOOLEAN

concession_transactions

PK	concession_transaction_id	SERIAL
FK	customer_id	INTEGER
	transaction_date	TIMESTAMP
	total_less_taxes	NUMERIC(5,2)
	taxes	NUMERIC(5,2)

This equates to a receipt at the
concession stand.

Multiple tickets can have same customer
Not other way around. There can be

tickets

PK	ticket_id	SERIAL
FK	customer_id	INTEGER
FK	showing_id	INTEGER
	total_price	NUMERIC(6,2)
	viewers	INTEGER

Each ticket is bought by a customer. Tickets are
under the name of one customer, but can be for
multiple people. viewers tracks amount of
people.

concession_transaction_items

FK	concession_transaction_id	INTEGER
FK	concession_id	INTEGER
	concession_quantity	INTEGER

This pairs a receipt to the kinds of
items (snacks) on it. And the quantity
of each item.

Multiple tickets can have same showing
Not other way around. There can be
showings without tickets.

concession_items

PK	concession_item_id	SERIAL
	snack_name	VARCHAR(30)
	price	NUMERIC(5,2)

This equates to the menu at the
concession stand.

showings

PK	showing_id	SERIAL
FK	movie_id	INTEGER
FK	theater_id	INTEGER
	start_time	TIMESTAMP

Multiple showing can have the same
movie. Not other way around.
Each showing needs a movie.
Not all movies appear in the showing list.

Multiple showings can have
same theater. Not other way
around.

movies

PK	movie_id	SERIAL
	title	VARCHAR(100)
	rating	VARCHAR(10)
	runtime_minutes	INTEGER

Tracks info about
a given movie

theaters

PK	theater_id	SERIAL
	theater_num	INTEGER
	capacity	INTEGER

Tracks info about a theater (as in,
location within movie theater where
one watches a showing)