

# Movie Theatre ERD

Harrison Crichton | August 8, 2023

auditorium		
PK	auditorium_id	SERIAL
	seats	INTEGER
	3D_capable	BOOL

The ordinality of auditorium to ticket is one to one. This is because a ticket must always be to watch one film, and one film viewing can only be done in one auditorium.

film		
PK	film_id	SERIAL
	title	VARCHAR(150)
	release_date	DATE
	film_length	INTEGER
	mpaa_rating	VARCHAR(5)
	language	VARCHAR(20)

The ordinality of film to ticket is one to one. This is because a ticket can be bought to view one film at a time.

membership		
PK	member_id	SERIAL
	level	VARCHAR(20)
FK	customer_id	INTEGER

customers		
PK	customer_id	SERIAL
	customer_name	VARCHAR(150)
	sex	VARCHAR(10)

The ordinality of customers to membership is one or zero. A membership has only one customer\_id to it. Whereas a customer either has a membership or not.

ticket		
PK	ticket_id	SERIAL
	sub_total	NUMERIC(5,2)
FK	auditorium_number	INTEGER
FK	film	INTEGER
FK	concessions	INTEGER
FK	customer_id	INTEGER

The cardinality of ticket to customers is one or many. This is because a customer is unique, but they can have multiple tickets.

concession		
PK	food_id	SERIAL
	food_name	VARCHAR(50)
	price	NUMERIC(5,2)

The cardinality of concession to ticket is zero to many. This is because a ticket can have many concessions bought. But they are optional to the viewing experience.