

Movie Theater

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Customer		
PK	customer_id	SERIAL
	first_name	VARCHAR(100)
	last_name	VARCHAR(100)
	address	VARCHAR(150)
	billing_info	VARCHAR(150)

customer_id: There needs to be a unique identifier to track each customer that attends our movie theater.

One and one only cardinality was used because only one customer_id can be used to make a purchase of zero or many purchases at the concession.

first_name & last_name: We need the basic information for each customer.

address: It will be essential for promotional opportunities and another way to track the locations of where our revenue is coming from.

billing_info: it will be needed for making payments via credit card or any other electronic form of payment method.

Tickets		
PK	ticket_id	SERIAL
FK	customer_id	Integer
	quantity	Integer
	sub_total	(8,2)
	total_cost	(10,2)

ticket_id: we need an unique identifier for each ticket sold(PK).

customer_id: Foreign Key to track which customers are purchasing which tickets
quantity: used to track how many tickets are being purchased

In-House Restaurant		
PK	receipt_id	SERIAL
FK	customer_id	Integer
	sub_total	(8,2)
	total_cost	(10,2)
FK	upc	Integer

receipt_id: Unique Identifier to have as an unchanging id
customer_id: Foreign key to track which customer is making the purchase

sub_total: To track how much the company is bringing in prior to tax
total_cost: to track company's total revenue
upc: Foreign Key to track which items are being purchased

Movies		
PK	movie_id	SERIAL
FK	ticket_id	Integer

PK movie_id: Unique identifier for which movie
ticket_id: Foreign key to track what tickets are associated with which movie

Product		
PK	upc	SERIAL
	quantity	Integer
	product_name	VARCHAR(150)

upc(PK): necessary to identify each product with it's own upc number.
quantity: necessary to determine how many of that particular product is being purchased

Concession		
PK	concession_id	SERIAL
FK	customer_id	Integer
	purchase_date	DATE(current DATE)
	sub_total	(8,2)
	total_cost	(10,2)
FK	upc	Integer

concession_id: We need a unique identifier for each purchase that was made at the concession. Because of this concession_id never changing, this is ideal as the PK.

customer_id(Foreign Key): Necessary to track which customer which making which purchase

purchase_date: necessary to track how many purchases are being made in a given day.

sub_total: necessary to identify the amount the company is making prior to state tax.

total_cost: necessary to calculate total revenue

product_id(Foreign Key): necessary to track what products are being purchased at the concession to identify which products are driving the business and any adjustments we may need to apply.

This is also a foreign key to

Inventory		
PK	item_id	SERIAL
FK	upc	Integer
	product_amount	(10,2)

item_id(PK): necessary to uniquely identify each item in the inventory
upc(FK): necessary to track products that are coming out of the inventory of all products
product_amount: used to track the amount for each product