Data Base Project Phase 1

Vox *Cinema*

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Business Rules

- Showroom is uniquely identified with showroomNo, each showroom has numOfSeats.
- MovieShow is uniquely identified with movie_Name, each movie has movie_stars, movie genre,description, director, language, countryName, producer_company, dateOfRelease,rating,ageRating.
- Audience is uniquely identified with person_id, each person has their first name, last name, age, e-mail and mobileNo.
- Employee is uniquely identified with emp_id, first name last name, salary, e-mail,department.
- Ticket is uniquely identified with Ticket_no, each ticket has its ticket_type and seat_no,.
- There is a ternary relationship named 'show' between showroom, movieshow and ticket that has price, showroomNo,movie, showStartTime, showEndTime and show_date.
- Food&Drinks is uniquely identified with product_id, each product has product_name, product_price, quantity, expire_date.
- Transaction is uniquely identified by transaction_id, each transaction has paymentMethod & amount.

- Producer company is uniquely identified by company_name, tel_no, representative_name, email,movies.

- Public relations employee is responsible for contacting producer companies.

One MovieShow runs in many Showrooms.

One MovieShow can have many tickets.

One public relation employee can contact many movie producer companies.

One audience can book many tickets.

Many audience can buy many Food&Drinks.

Many employees can serve many customers.

One Ticket has one transaction.
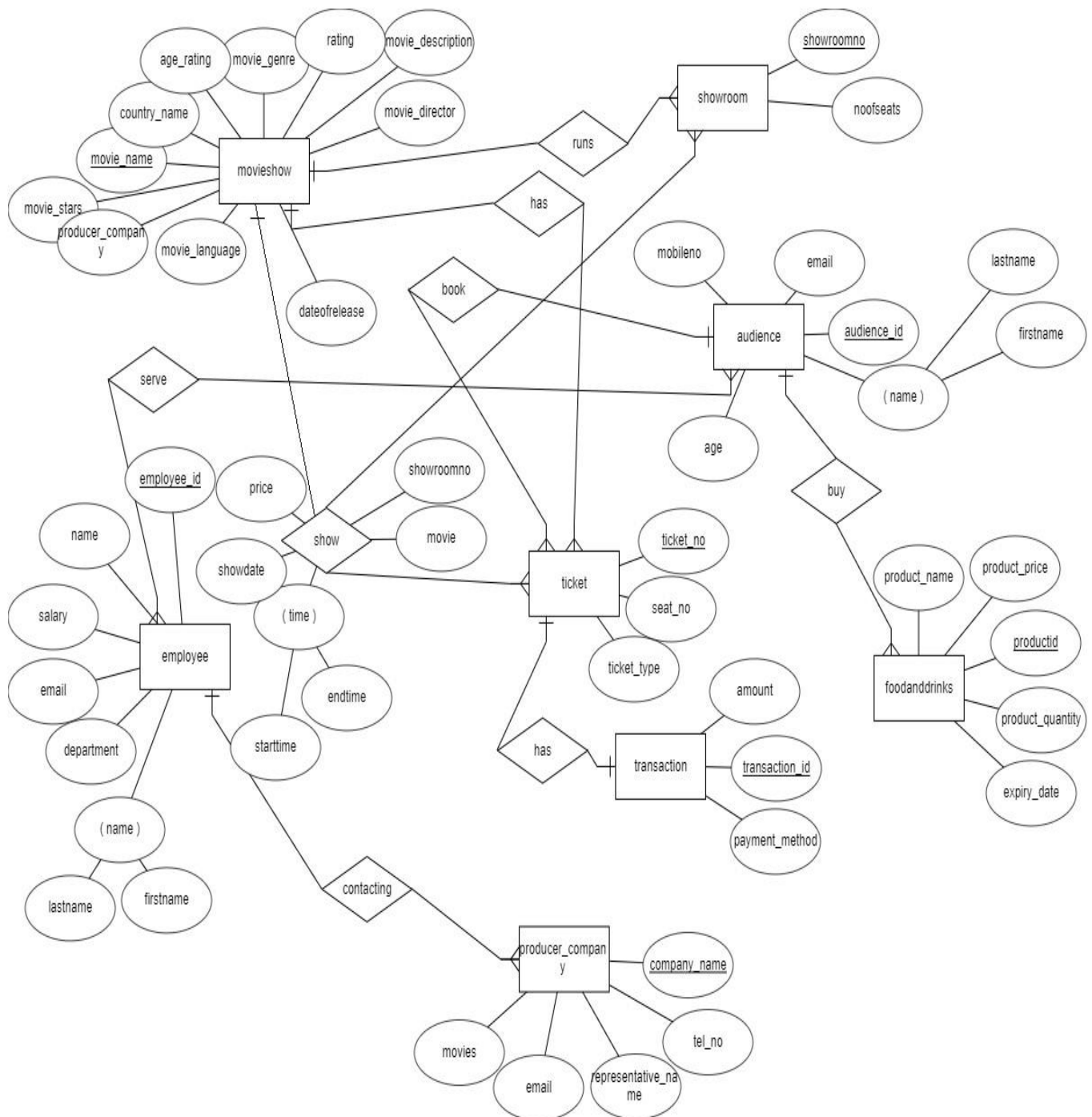
Description:

Vox cinema is a movie show service that aims to provide the user a smooth and fast process of booking tickets to enjoy watching their favorite films.

Employees serve audience, where the cashier books the tickets and takes the bill, the movie-show assistant guides the audience to the right showroom and seat according to the info on the ticket and the food&drinks cashier sells audience popcorn and other products to enjoy eating while watching. Moreover, there is a public relations employee responsible for setting up contracts with film producer companies.

Audience have the option to choose between many payment methods to ease the buying process.

There is a way of booking online via website for customers to book their tickets remotely and get on time and an admin is responsible for

managing it. This increases the customer satisfaction with the experience.

Showroom

showroomNo	numOfSeats	msmovie_Name

MovieShow

movie_Name	numOfSeats	movie_stars	movie_genre	description	director
language	countryName	producer_company	dateOfRelease	rating	ageRating

Audience

audience_id	age	e-mail	mobileNo	first name	last name

Ticket

Ticket_no	seat_no	ticket_type	msmovie_Name	Aaudience_id

Transaction

transaction_id	amount	paymentMethod	mobileNo	Ticket_no

Food&Drinks

product_id	product_name	product_price	quantity	expire_date	Aaudience_id

Employee

emp_id	salary	e-mail	department	first name	last name

Producer company

company_name	tel_no	representative_name	email	movies	emp_id

SERVES

Aaudience_id	emp_id

SHOWS

Ticket_no	msmovie_Name	showroomNo	price	movie	show_date
StartTime	EndTime				

The primary keys in the schema are:

Showroom ➡ *showroomNo*

MovieShow ➡ *movie_Name*

Audience ➡ *audience_id*

Ticket ➡ *Ticket_no*

Transaction ➡ *transaction_id*

Food&Drinks ➡ *product_id*

Employee ➡ *emp_id*

Producer company ➡ *company_name*

SERVES ➡ *Aaudience_id and emp_id* (Compound key)

SHOWS ➡ *Ticket_no and msmovie_Name and showroomNo (Compound key)*

The foreign keys in the schema are:

Showroom ➡ movie_Name

MovieShow ➡ None

Audience ➡ None

Ticket ➡ movie_Name

Transaction ➡ Ticket_no

Food&Drinks ➡ audience_id

Employee ➡ none

Producer company ➡ emp_id

SERVES ➡ Aaudience_id and emp_id

SHOWS ➡ Ticket_no and msmovie_Name and showroomNo