





CINEMA

MANAGEMENT

SYSTEM

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Cinema management system has many parts

- We need to store information about employee such as gender, address, name, salary and SSN (primary key). Each employee may have several phone numbers. Employee takes information from many customers (1:N).
- Each customer is inquired about his ID
 which is a unique value, age and full name.
- Each customer has to buy tickets . tickets has it's ID , movie name , seat number , price and the time of the movie .
- Sometimes any movie has discount which is stored on the system as offer-ID, movie name and price. Customers have the ability to choose favorite type of movies which can be displayed in halls.
- Halls have types: VIP and local and have number of seats. Every hall display

- different movies at the same time. Movies differ in type, rate, name and duration.
- Offer-ID, seat number, customer-ID, movie-ID, hall-ID and ticket-ID is assigned to be a primary key assigned to be a primary key because it's a unique value and not null.
- Employee's phone number is a multivalued because the employee may have more than one phone number.
- Each supervisor supervise a group of employees but every employee has supervisor.

INQURE

 EMP
 customer

 1
 N

 1
 1

 1
 N

Show

TIC hall

1
N
1

N 1

SELL

EMP	CUS
1	N
1	1
1	N

Has

N	1
N	1
A.1	
1	1
Seats	hall

ВООК

TIC		CUS	OFFERS	
1		1	TIC	DIS
N		1	1	1
			N	1
N		1		
			N	1
	DISPLAY			

Hall	movie	SUPERVISE		
1	M	SVISOR	SVISEE	
N	1	1	N	
N	M	1	1	
		1	M	

- Both of EMP.SSN and EMP-PHONE are the primary key in the entity EMP-PHONE because EMP-PHONE is a multi-valued attribute
- SSN is the primary key of the entity
 EMPLOYEE because SSN is a unique value
- ID is a unique value in the entity customer and makes it strong entity so we call ID primary key
- Ticket.ID is the primary key of the entity ticket
- HALL-ID is the primary key of the entity
 HALL (strong entity)

- Offer.id is a unique value called primary key
- Number of seats has a partial dependence on Hall.id HALL.ID -> Number of seats
- Seat.id has a total dependence on HALL.ID and Seat.num .
- {HALL.ID ,SEATNUM} ->SEAT.ID
- Movie.id is the primary key of entity movie
- BOTH OF HALL.ID and MOVIE.ID are the primary key of entity display