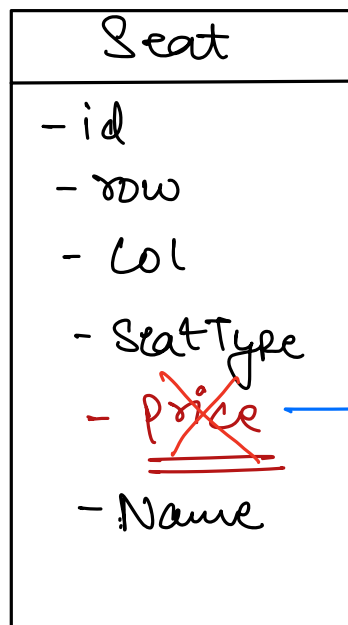
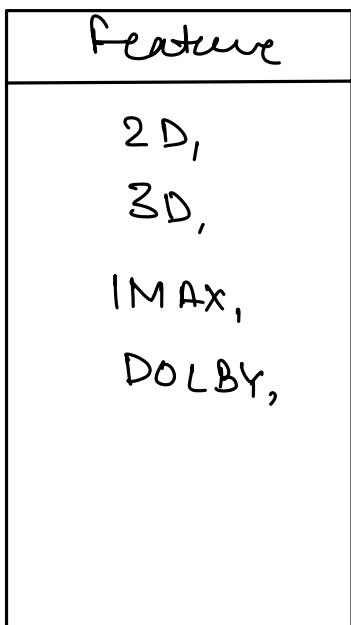
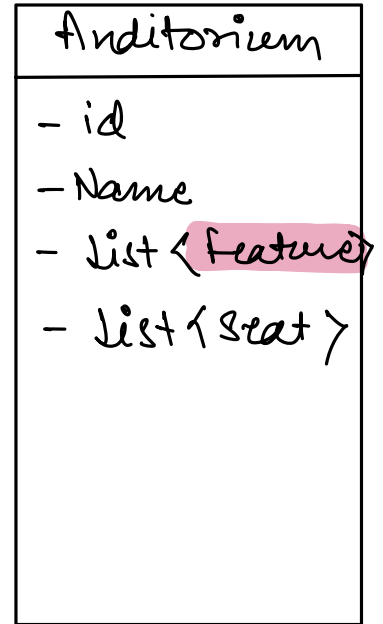
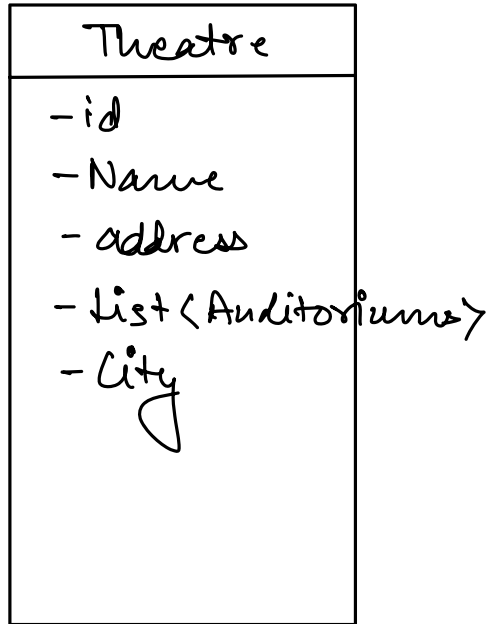
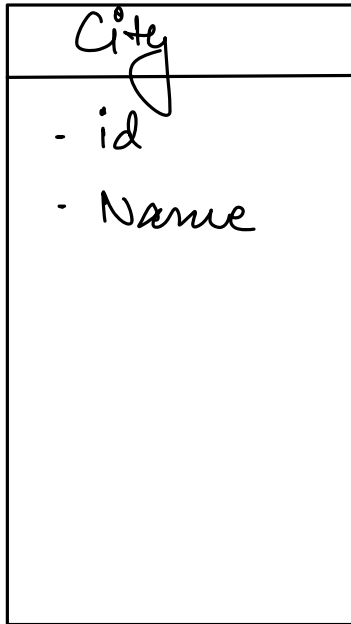


Class Diagram

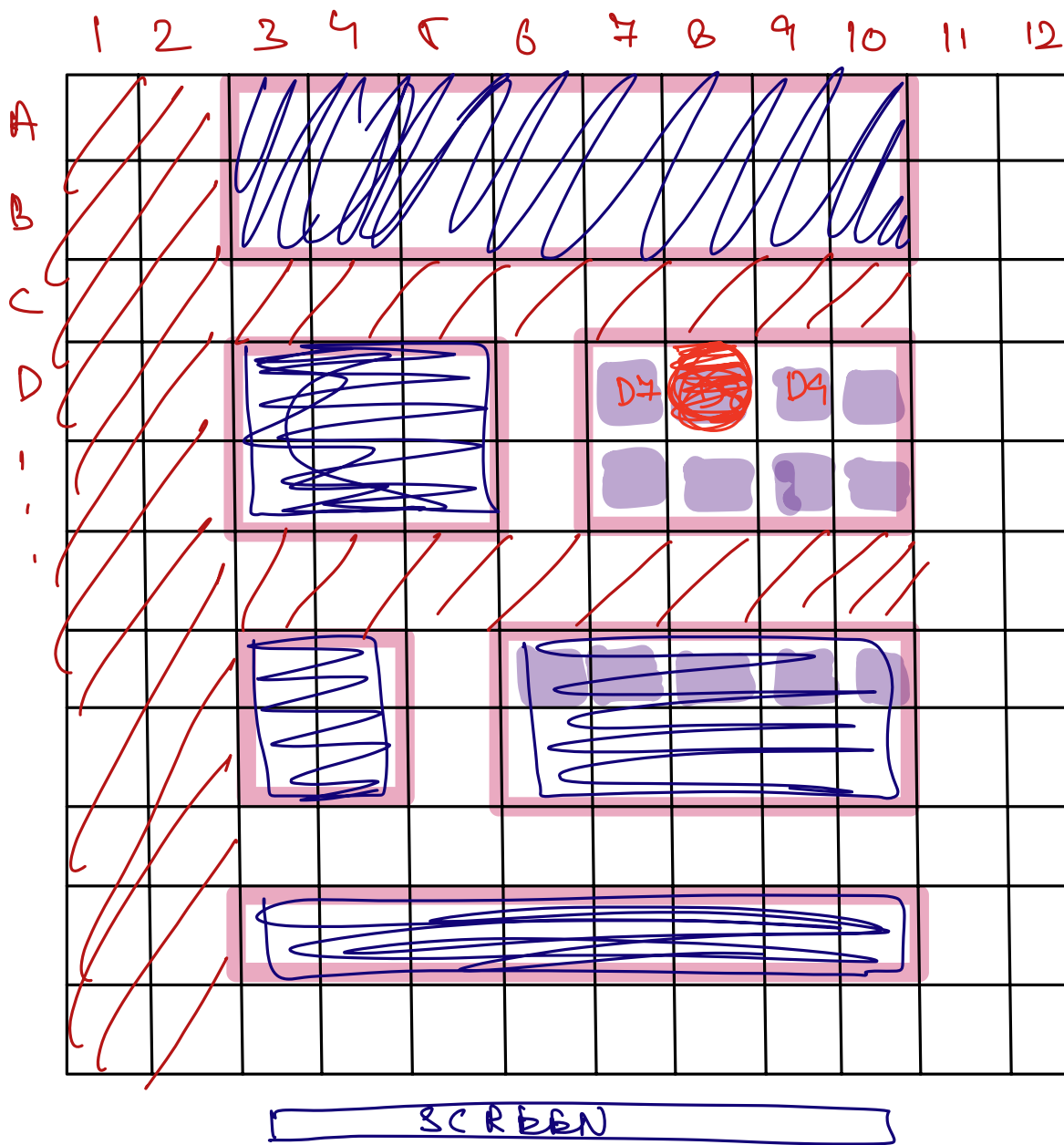
→ Nouns

→ Visualise the System.



1 → 1
Seat - SeatType ⇒ M:1
M ← 1

⇒ (Seat + Show)
Price for a Seat
keeps on changing
Status.



100x100

2D Matrix

SeatType
GOLD,
SILVER,
PLATINUM,
—
—
—

Show
- id
- startTime
- endTime
- movie
- auditorium
- List<features>
- showStatus
- language

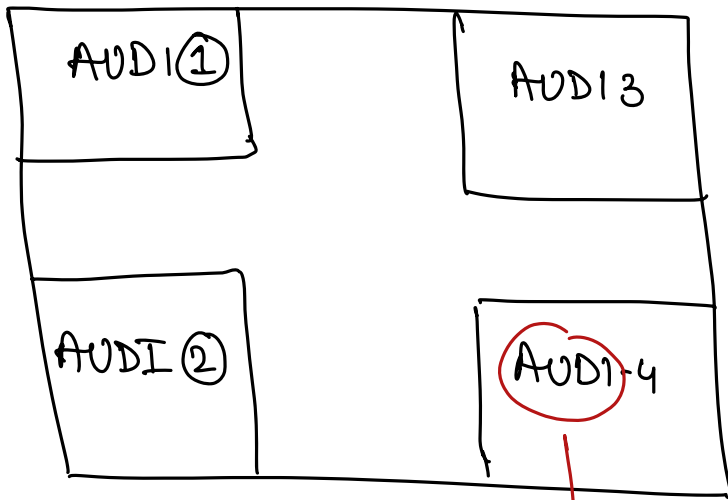
2D,
Dolby

1 → 1
Show - Movie ⇒ M:1
M ← 1

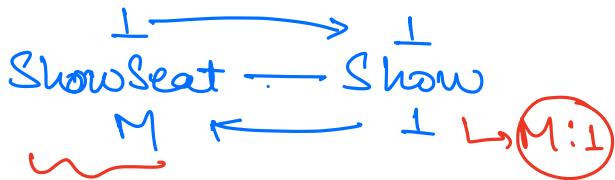
1 → 1
Show - Audi ⇒ M:1
M ← 1

1 → M
Show - features ⇒ M:M
M ← 1

1 → 1
Show - Status ⇒ M:1
M ← 1



PVR Ambience mall } Theatre



Screen/Auditorium.

- 1/D1
- 1/D2
- 1/D3
- 2/D1
- 2/D2
- 2/H1
- !

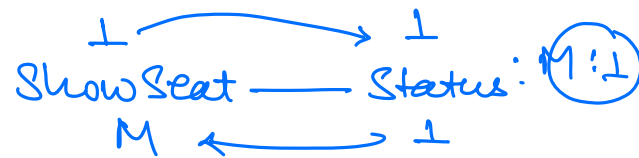
ShowSeat
- id
- Show
- Seat
- Price
- <u>Status.</u>

12:00PM + D1
Avengers

Price
Status.

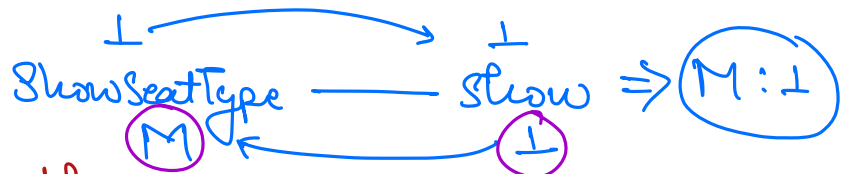
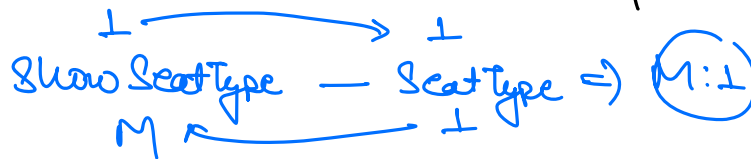
AVAILABLE
BOOKED
LOCKED.

ShowSeat
showid | seat-id | ~



ShowSeatType
id
Show
SeatType
Price

showid	Seat-type-id	Price
1	1	500
2	1	700



- 123/Rec
- 123/Gold
- 123/Plat
- 124/Rec

- 10/Rec
- 10/Gold
- 11/Rec
- !

Movie
id
Name
List<Actor>
List<Genre>
languages
duration
List<features>

Actor
id
Name
List<Movie>

⇒ depends on access pattern.

1 → M
Movie — Actor ⇒ M:M
M ← 1

Genre
COMEDY,
ACTION,
DRAMA,
==
==

Payment
id
amount
status
transaction-id
time
==
==
==

Ticket
- id
- show
- List<showSeat>
- amount
- status
- List<Payment>
- user

CONFIRMED

CANCELLED.

WAITING

SCHEMA DESIGN.

→ Every class in class diagram will have a table.

Cardinality

1. $1:1 \Rightarrow$ Id of one side on other side.

2. $1:M$ or $M:1 \Rightarrow$ Id of one side on many side.

3. $M:M \Rightarrow$ Mapping table.

\Rightarrow A class can have either primitive @ non primitive attributes.

\Rightarrow

Cities

id	name	
----	------	--

Theatres

id	name	address	city-id
----	------	---------	---------

Auditoriums

id	name	theatre-id
----	------	------------

Seats

id	row	col	name	audi-id	seat-type-id
----	-----	-----	------	---------	--------------

Shows

id	start	end	lang	movie-id	audi-id
----	-------	-----	------	----------	---------

Show-seattype

id	price	show-id	seat-type-id
----	-------	---------	--------------

Show-seats

id	show-id	show-status-id	seat-id	seat-status-id
----	---------	----------------	---------	----------------

movies

id	name	
----	------	--

actors

id	name	
----	------	--

genre

id	value
----	-------

Seat-status

id	value
----	-------

features

id	value
----	-------

payments

id	amount	time
----	--------	------

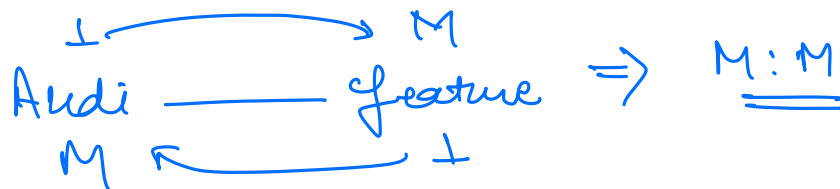
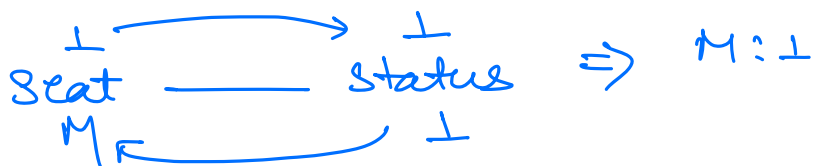
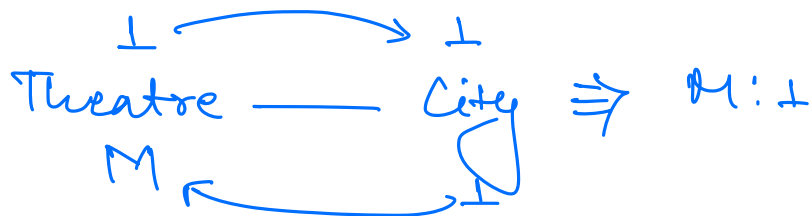
seat-type

id	values
----	--------

tickets

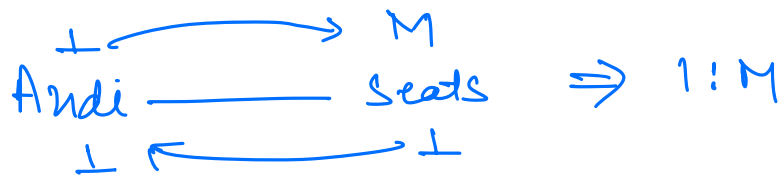
id	amount	
----	--------	--

Cardinalities.



audi-features

id	audi-id	feature-id
----	---------	------------

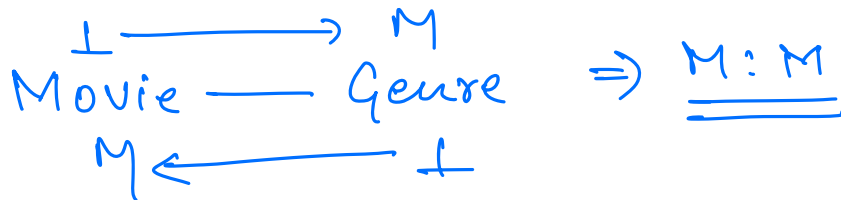


showid featureid

--	--

movies_actors

movie-id	actor-id
----------	----------



movie-id genre-id

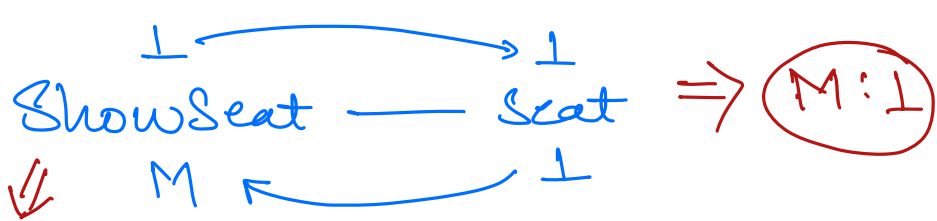
--	--



movie-id featureid

--	--

\Rightarrow Assignment : Find the cardinalities for
 Payment & Ticket table.



1 | D1

1 | D2

1 | D3

2 | D1

