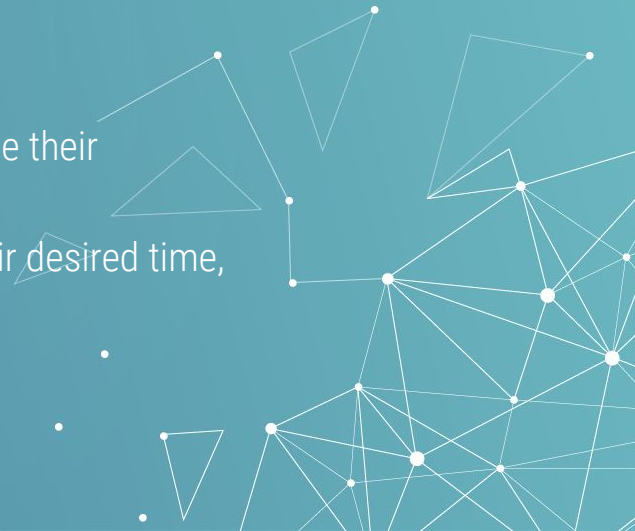# CINEMATIC BOOKINGS

Mahdia Rashid
Nelly Delgado Planche

COP4703 - Applied Database System
Spring 2022

OVERVIEW

- Cinematic bookings is a movie ticket application system which allows users to purchase movie tickets online from local theaters.
- Idea was influenced from current movie booking systems such as Fandango and Atom
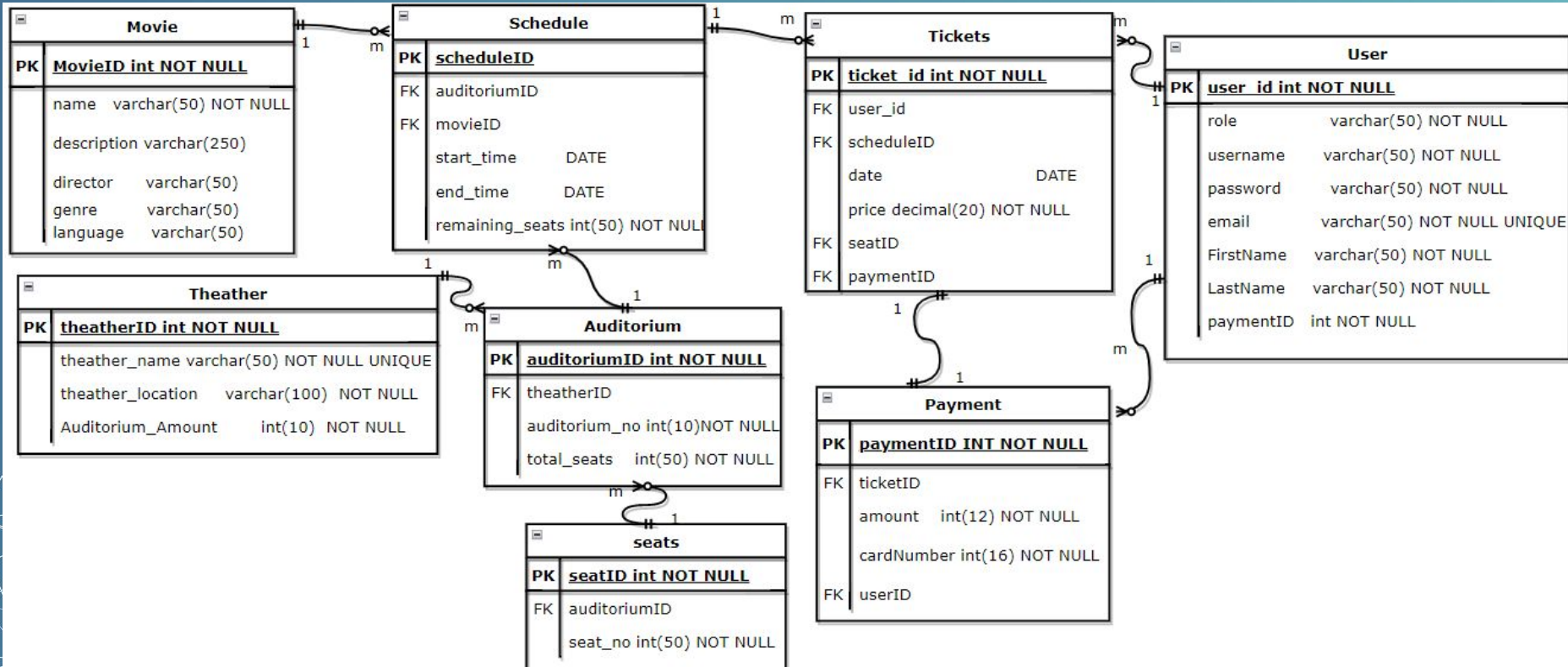
Goals of Cinematic Bookings

- Allow customers to create an account or login to their account to see their personalized dashboard
- Customer will also be able to purchase tickets by choosing their their desired time, theater and seat to confirm their reservation.

ER DIAGRAM & DATABASE

SEATS TABLE

seatID	auditoriumID	seat_no
1	a1	1
2	a1	2
3	a1	3
4	a1	4
5	a1	5
6	a1	6
7	a1	7
8	a1	8
9	a1	9
10	a1	10
11	a1	11
12	a1	12
13	a1	13
14	a1	14
15	a1	15
16	a1	16
17	a1	17
18	a1	18
19	a1	19
20	a1	20
21	a1	21
22	a1	22
23	a1	23
24	a1	24
25	a1	25
26	a1	26

AUDITORIUM TABLE

auditoriumID	theaterID	auditorium_no	total_seats
a1	1	1	30
a10	1	10	30
a2	1	2	30
a3	1	3	30
a4	1	4	30
a5	1	5	30
a6	1	6	30
a7	1	7	30
a8	1	8	30
a9	1	9	30
b1	2	1	35
b10	2	10	35
b11	2	11	35
b12	2	12	35
b13	2	13	35
b14	2	14	35
b15	2	15	35
b16	2	16	35
b2	2	2	35
b3	2	3	35
b4	2	4	35
b5	2	5	35
b6	2	6	35
b7	2	7	35
b8	2	8	35
b9	2	9	35
c1	3	1	20

auditorium 1

MOVIE TABLE

movieID	name	description	director	genre	language
▶ 1001	The Unforgivable	Ruth Slater, a woman released from prison after…	Nora Fingscheidt	Thriller	English
1004	Don't Look Up	Two low-level astronomers must go on a giant…	Adam McKay	Fantasy	English
1005	The Rescue	The dramatic 2018 rescue of 12 Thai boys and t…	Jimmy Chin, Elizabeth C. Vasarhelyi	Documentary	English
1010	Raazi	During the Indo-Pakistan War of 1971, an India…	Meghna Gulzar	Action	Hindi
1013	Talaash: The Answer Lies Within	Inspector Surjan Singh Shekhawat (Aamir Khan…	Reema Kagti	Thriller	Hindi
1020	Veronica	During a solar eclipse, a teenage girl and her fri…	Paco Plaza	Horror	Spanish
1023	7 Anos	After four friends become founding partners of a…	Roger Gual	Drama	Spanish
1027	Be With You	A woman dies, leaving her husband and young…	Lee Jang-hoon	Fantasy	Korean
NULL	NULL	NULL	NULL	NULL	NULL

PAYMENT TABLE

paymentID	ticketID	amount	cardNumber	userID	
1	1111	20	3440947502842836	3002	
2	1114	30	9248395729374773	3006	
3	1112	10	2938999300229393	3009	
NULL	NULL	NULL	NULL	NULL	

SCHEDULE TABLE

scheduleID	auditoriumID	start_time	end_time	remaining_sea...	movieID
1	a10	2019-03-20	2019-04-05	15	1005
2	b14	2020-12-22	2021-03-20	35	1001
3	b8	2022-01-05	2022-02-28	8	1013
4	c3	2022-02-01	2022-04-20	20	1004
NULL	NULL	NULL	NULL	NULL	NULL

THEATER TABLE

theaterID	theater_name	theater_location	auditorium_Amount
1	Regal Shadowood	9889 Glades Rd, Boca Raton, FL 33434	10
2	Cinemark Palace 20 and XD	3200 Airport Rd, Boca Raton, FL 33431	16
3	IPIC Theaters	301 Plaza Real, Boca Raton, FL 33432	6
NULL	NULL	NULL	NULL

TICKETS TABLE

ticketID	date	price	paymentID	userID	scheduleID
1111	2019-03-22	40	2	3009	4
1112	2019-04-01	10	3	3006	2
1114	2020-01-13	15	1	3005	1
NULL	NULL	NULL	NULL	NULL	NULL

USERS TABLE

userID	role	username	password	email	firstName	lastName
1	admin	AdminAccess	Access22	admins@gmail.com	Admin	Use
3000	general	Ally44	394lica	ally44@live.com	Ally	Lester
3002	general	CJ3476	temp34	CJproduction@gmail.com	Clark	Jackson
3005	general	DougO	maxxy2004	Doug.Oakley@yahoo.com	Douglas	Oakley
3006	general	CleveT	cleveroness	cleveland_t@hotmail.com	Cleveland	Trujillo
3009	general	diaa23	temp123	mahdia@hotmail.com	Mahdia	Rashid
NULL	NULL	NULL	NULL	NULL	NULL	NULL

SAMPLE QUERIES

Attached screenshots to follow but we will run through a live tutorial on phpMyAdmin

1.

```sql
1    -- Find the names of movies showing in "English"
2 ●  SELECT name
3    FROM movie
4    WHERE language = 'English';
```

100%   ⇅   28:4

Result Grid   ⊞ ↻ Filter Rows: 🔍 Search   Export: 💾

name
▶ The Unforgivable
Don't Look Up
The Rescue

2.

```sql
1  /*What customer made the biggest payment*/
2  SELECT users.firstName,users.lastName, MAX(p.amount) as Total
3  FROM payment p
4  INNER JOIN users ON  users.userID = p.userID
```

firstName	lastName	Total
Clark	Jackson	30

3.

```sql
1  /* Name of the movies that are schedule to play this year*/
2  SELECT m.name
3  FROM movie m
4  WHERE m.movieID IN (SELECT s.movieID  FROM schedule s
5                      WHERE YEAR(s.start_time) = (SELECT year(CURDATE()))));
6
7
```

←T→				name
☐	🖊 Edit	⧉ Copy	⊖ Delete	Don't Look Up
☐	🖊 Edit	⧉ Copy	⊖ Delete	Talaash: The Answer Lies Within

4.

```sql
/*What is the role, name, and id of general user has not purchased a ticket*/
SELECT s.userID,s.role,s.firstName,s.lastName
FROM users s
WHERE s.role = 'general' AND s.userID NOT IN
( SELECT t.userID
  FROM tickets t);
```

				userID	role	firstName	lastName
☐	🖉 Edit	Copy	⊖ Delete	3000	general	Ally	Lester
☐	🖉 Edit	Copy	⊖ Delete	3002	general	Clark	Jackson

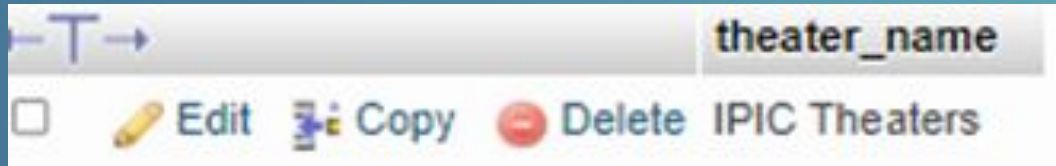**5.**

```sql
/*what movie has not sold any tickets?*/
SELECT m.name FROM movie m
WHERE m.movieID IN ( SELECT s.movieID FROM schedule s
INNER JOIN auditorium ON auditorium.auditoriumID = s.auditoriumID
WHERE s.remaining_seats =  auditorium.total_seats);
```

			name
☐ 🖉 Edit ⧉ Copy ⊖ Delete			The Unforgivable
☐ 🖉 Edit ⧉ Copy ⊖ Delete			Don't Look Up

6.

```sql
1  /*What is the name of the theater user 3009 will attend*/
2  SELECT t.theater_name FROM theater t
3  WHERE t.theaterID = (SELECT a.theaterID  FROM auditorium a
4                          WHERE a.auditoriumID = (SELECT s.auditoriumID FROM schedule s
5                                  WHERE s.scheduleID = (SELECT t.scheduleID FROM tickets t
6                                          WHERE userID = 3009)))
```

←T→			theater_name
☐	✏ Edit	⊒⊏ Copy ⊖ Delete	IPIC Theaters

THANK YOU