

DBMS-Mini Project

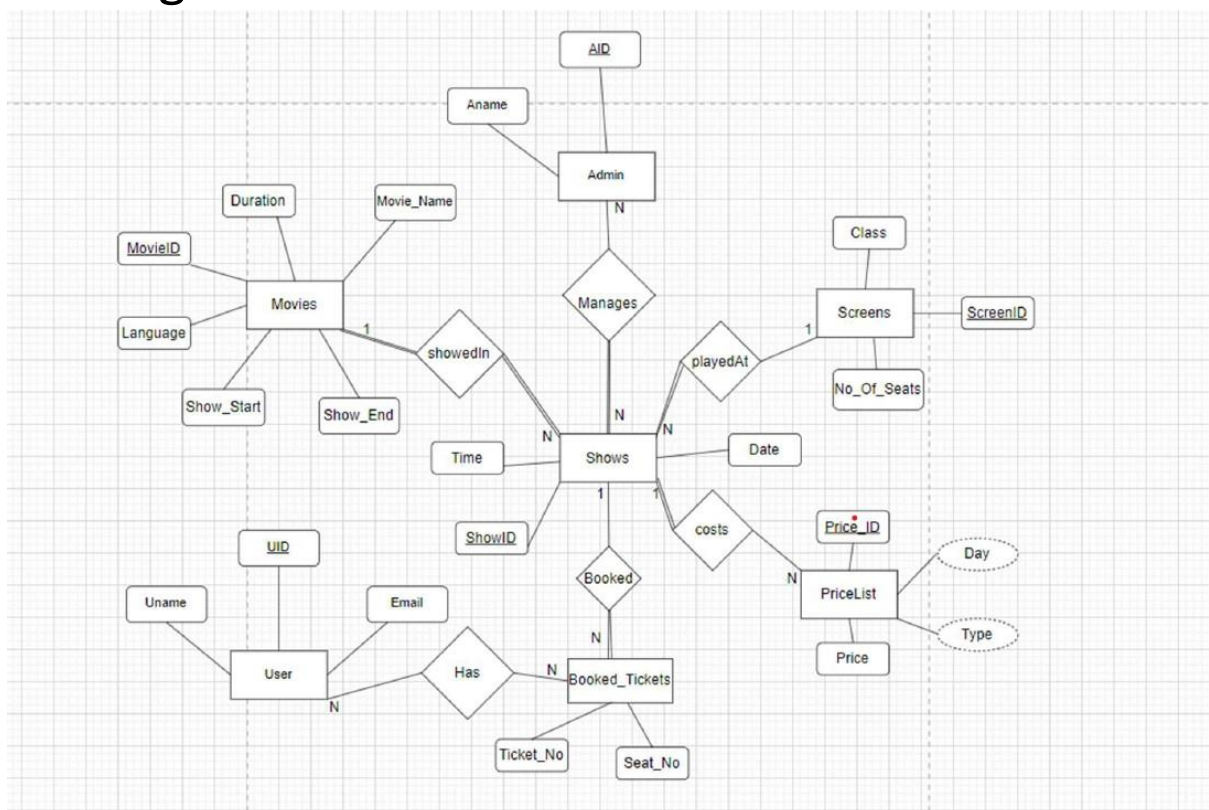
Online Movie Ticket Booking Management System

Done By:-

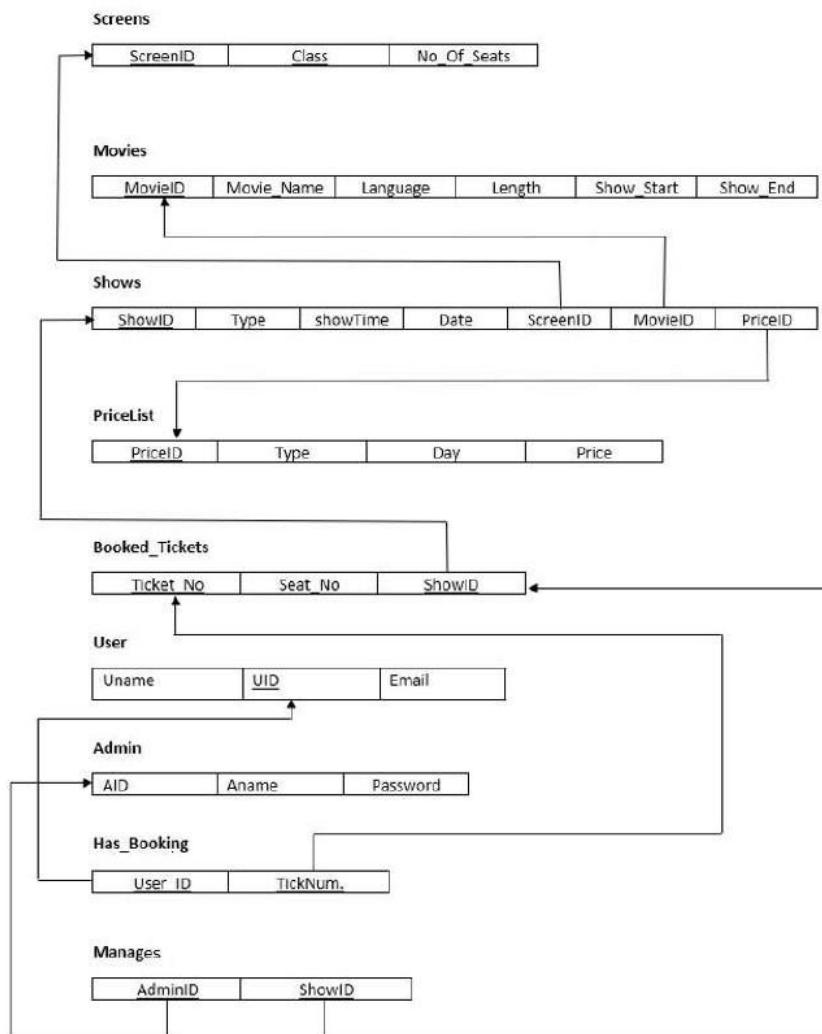
Name- Karan Mangtani
SRN- PES1UG21CS268
Sec-E

Name-Krishna Sudarshan
SRN-PES1UG21CS289
Sec-E

ER Diagram:-



Relational Schema:-



Join Query:-

1.) Return show_id for each ticket booked

```
select show_id from pes1ug21cs268_289_shows natural join
pes1ug21cs268_289_booked_tickets;
```

```
mysql> select show_id from peslug21cs268_289_shows natural join peslug21cs268_289_booked_tickets;
+-----+
| show_id |
+-----+
| 1 |
| 1 |
| 3 |
| 2 |
| 2 |
+-----+
5 rows in set (0.00 sec)
```

2.) Return show information with details of movie playing in that show

```
select * from peslug21cs268_289_shows left join peslug21cs268_289_movies on
peslug21cs268_289_shows.movie_id = peslug21cs268_289_movies.movie_id;
mysql> select * from peslug21cs268_289_shows left join peslug21cs268_289_movies on peslug21cs268_289_shows.movie_id = peslug21cs268_289_movies.movie_id;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| show_id | type | time | date | screen_id | movie_id | price_id | movie_id | movie_name | language | length | show_start | show_end |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 3 | 12:00:00 | 2023-11-17 | 1 | 101 | 1 | 101 | Black Panther 2 | English | 161 | 2023-11-11 | 2023-12-11 |
| 2 | 2 | 11:30:00 | 2023-11-17 | 3 | 103 | 2 | 103 | Kantara | Kannada | 150 | 2023-09-30 | 2023-12-10 |
| 3 | 3 | 12:00:00 | 2023-11-18 | 1 | 101 | 1 | 101 | Black Panther 2 | English | 161 | 2023-11-11 | 2023-12-11 |
| 4 | 2 | 11:30:00 | 2023-11-19 | 2 | 102 | 3 | 102 | Ram Setu | Hindi | 143 | 2023-10-25 | 2023-11-28 |
| 5 | 1 | 21:30:00 | 2023-11-20 | 4 | 101 | 5 | 101 | Black Panther 2 | English | 161 | 2023-11-11 | 2023-12-11 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

3.) Return data about show and the screen being used

```
select * from peslug21cs268_289_shows natural join peslug21cs268_289_screens;
mysql> select * from peslug21cs268_289_shows natural join peslug21cs268_289_screens;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| screen_id | show_id | type | time | date | movie_id | price_id | class | no_of_seats |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | 1 | 3 | 12:00:00 | 2023-11-17 | 101 | 1 | Platinum | 100 |
| 3 | 2 | 2 | 11:30:00 | 2023-11-17 | 103 | 2 | gold | 120 |
| 1 | 3 | 3 | 12:00:00 | 2023-11-18 | 101 | 1 | Platinum | 100 |
| 2 | 4 | 2 | 11:30:00 | 2023-11-19 | 102 | 3 | standard | 150 |
| 4 | 5 | 1 | 21:30:00 | 2023-11-20 | 101 | 5 | platinum | 50 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

AGGREGATE FUNCTIONS :-

1. Return Day and no of shows playing on that day

```
select day,count(*) from peslug21cs268_289_price_list group by day;
mysql> select day,count(*) from peslug21cs268_289_price_list group by day;
+-----+-----+
| day | count(*) |
+-----+-----+
| Friday | 2 |
| Saturday | 2 |
| Sunday | 1 |
+-----+-----+
3 rows in set (0.00 sec)
```

2. Return count of movie language

```
select language,count(*) from peslug21cs268_289_movies group by
language;
```

```
mysql> select language,count(*) from peslug21cs268_289_movies group by language;
```

language	count(*)
English	2
Hindi	2
Kannada	1

```
3 rows in set (0.00 sec)
```

3. Return No of tickets booked for each movie

```
select movie_name,count(*) from peslug21cs268_289_movies natural join peslug21cs268_289_shows group by movie_name;
```

```
mysql> select movie_name,count(*) from peslug21cs268_289_movies natural join peslug21cs268_289_shows group by movie_name;
```

movie_name	count(*)
Black Panther 2	3
Ram Setu	1
Kantara	1

```
3 rows in set (0.00 sec)
```

4. Return No of times a type of screen was used

```
select class,count(*) from peslug21cs268_289_screens natural join peslug21cs268_289_shows group by class;
```

```
mysql> select class,count(*) from peslug21cs268_289_screens natural join peslug21cs268_289_shows group by class;
```

class	count(*)
Platinum	3
standard	1
gold	1

```
3 rows in set (0.00 sec)
```

5. Returns max and min price for each day

```
select day,max(price),min(price) from peslug21cs268_289_price_list group by day;
```

```
mysql> select day,max(price),min(price) from peslug21cs268_289_price_list group by day;
```

day	max(price)	min(price)
Friday	500	350
Saturday	500	350
Sunday	450	450

```
3 rows in set (0.00 sec)
```

SET OPERATORS :-

1. Returns all screen types and movie names

```
select screen_id,class from peslug21cs268_289_screens union select movie_id,movie_name from peslug21cs268_289_movies;
```

```
mysql> select screen_id,class from peslug21cs268_289_screens union select movie_id,movie_name from peslug21cs268_289_movies;
+-----+-----+
| screen_id | class |
+-----+-----+
|          1 | Platinum |
|          2 | standard |
|          3 | gold |
|          4 | platinum |
|          5 | gold |
|        101 | Black Panther 2 |
|        102 | Ram Setu |
|        103 | Kantara |
|        104 | Avatar-2 |
|        105 | Bhediya |
+-----+-----+
10 rows in set (0.00 sec)
```

2. Returns ID's of movies which have shows

```
select movie_id from peslug21cs268_289_movies where movie_id in
(select movie_id from peslug21cs268_289_shows);

mysql> select movie_id from peslug21cs268_289_movies where movie_id in (select movie_id from peslug21cs268_289_shows);
+-----+
| movie_id |
+-----+
|        101 |
|        102 |
|        103 |
+-----+
3 rows in set (0.00 sec)
```

3. Returns screen-id which is not being used for any show

```
select screen_id from peslug21cs268_289_screens where screen_id not in
(select screen_id from peslug21cs268_289_shows);

mysql> select screen_id from peslug21cs268_289_screens where screen_id not in (select screen_id from peslug21cs268_289_shows);
+-----+
| screen_id |
+-----+
|          5 |
+-----+
1 row in set (0.00 sec)
```

4. Returns show-id's for which there are no booked tickets

```
select show_id from peslug21cs268_289_shows where show_id not in
(select show_id from peslug21cs268_289_booked_tickets);

mysql> select show_id from peslug21cs268_289_shows where show_id not in (select show_id from peslug21cs268_289_booked_tickets);
+-----+
| show_id |
+-----+
|          5 |
|          4 |
+-----+
2 rows in set (0.00 sec)
```

FUNCTIONS AND PROCEDURE :-

Function

```
DELIMITER $$
CREATE FUNCTION no_of_freeseats(screen_id int,sh_date date, sh_time
varchar(10))
RETURNS int
DETERMINISTIC
BEGIN
DECLARE non_free int;
DECLARE shid int;
DECLARE total int;
set shid = (select show_id from v1 where screen_id = screen_id and date =
sh_date and time = sh_time);
```

```

set total = (select no_of_seats  from v1 where screen_id = screen_id and date
= sh_date and time = sh_time);
set non_free = (select count(*) from peslug21cs268_289_booked_tickets where
show_id = shid);
RETURN total-non_free;
END $$
DELIMITER;

```

```

mysql> DELIMITER $$
mysql> CREATE FUNCTION no_of_freeseats(screen_id int,sh_date date, sh_time varchar(10))
-> RETURNS int
-> DETERMINISTIC
-> BEGIN
-> DECLARE non_free int;
-> DECLARE shid int;
-> DECLARE total int;
-> set shid = (select show_id from v1 where screen_id = screen_id and date = sh_date and time = sh_time);
-> set total = (select no_of_seats  from v1 where screen_id = screen_id and date = sh_date and time = sh_time);
-> set non_free = (select count(*) from peslug21cs268_289_booked_tickets where show_id = shid);
-> RETURN total-non_free;
-> END $$
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> Create view v1 as select * from peslug21cs268_289_shows natural join peslug21cs268_289_screens;
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> select no_of_freeseats(1,'2023-11-17','11:30:00');
+-----+
| no_of_freeseats(1,'2023-11-17','11:30:00') |
+-----+
| 118 |
+-----+
1 row in set (0.01 sec)

```

Procedures

```

mysql> DELIMITER $$
mysql> CREATE PROCEDURE get_tickets()
-> BEGIN
-> INSERT INTO count_tickets SELECT uname,count(*) from peslug21cs268_289_user natural join peslug21cs268_289_has_booked group by uname;
-> END;$$
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> call get_tickets;
Query OK, 5 rows affected (0.00 sec)

mysql> select * from count_tickets;
+-----+
| uname | no_of_tickets |
+-----+
| Rohit | 1 |
| Manoj | 1 |
| Neeraj | 1 |
| Rahul | 1 |
| Varun HR | 1 |
+-----+
5 rows in set (0.00 sec)

```

TRIGGERS AND CURSORS :-

Trigger: Checks the correctness of seat_no

```

DELIMITER $$
CREATE TRIGGER capacity
BEFORE INSERT ON peslug21cs268_289_booked_tickets
FOR EACH ROW
BEGIN

```

```

DECLARE coun int;
DECLARE max1 int;
DECLARE id int;
DECLARE err_Msg varchar(50);
SET err_Msg="Incorrect Seat No!!";
set id = (select screen_id from peslug21cs268_289_shows where show_id =
new.show_id);
set coun = new.seat_no;
set max1 = (select no_of_seats from peslug21cs268_289_screens where
screen_id = id);
IF coun>max1 or coun<1 then
    Signal sqlstate '45000'
    SET MESSAGE_TEXT=err_Msg;
END IF;
END $$

```

```

mysql> insert into peslug21cs268_289_booked_tickets values(0171,149,001);
ERROR 1644 (45000): Incorrect Seat No!!

```

Cursors: Returns list of movies which belong to a particular language

```

DELIMITER $$
CREATE PROCEDURE get_info(IN lang varchar(50))
BEGIN
DECLARE done INT DEFAULT 0;
DECLARE m_name varchar(20);
DECLARE del_movie CURSOR FOR SELECT movie_name from
peslug21cs268_289_movies natural join peslug21cs268_289_shows where language
= lang;
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
OPEN del_movie;
get_movie: LOOP
FETCH del_movie into m_name;
IF done=1 THEN LEAVE get_movie;
END IF;
insert into v2 values(m_name);
END LOOP get_movie;
CLOSE del_movie;
END$$
DELIMITER;

```

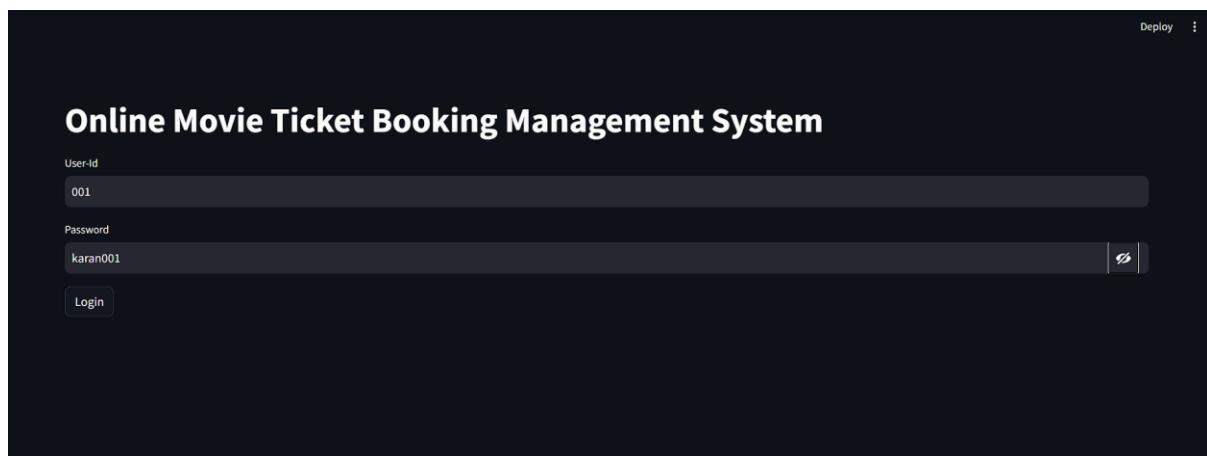
```
mysql> call get_info('English');
Query OK, 0 rows affected (0.01 sec)

mysql> select * from v2;
+-----+
| movie_name |
+-----+
| Black Panther 2 |
| Avatar-2 |
+-----+
2 rows in set (0.00 sec)
```

FRONTEND :-

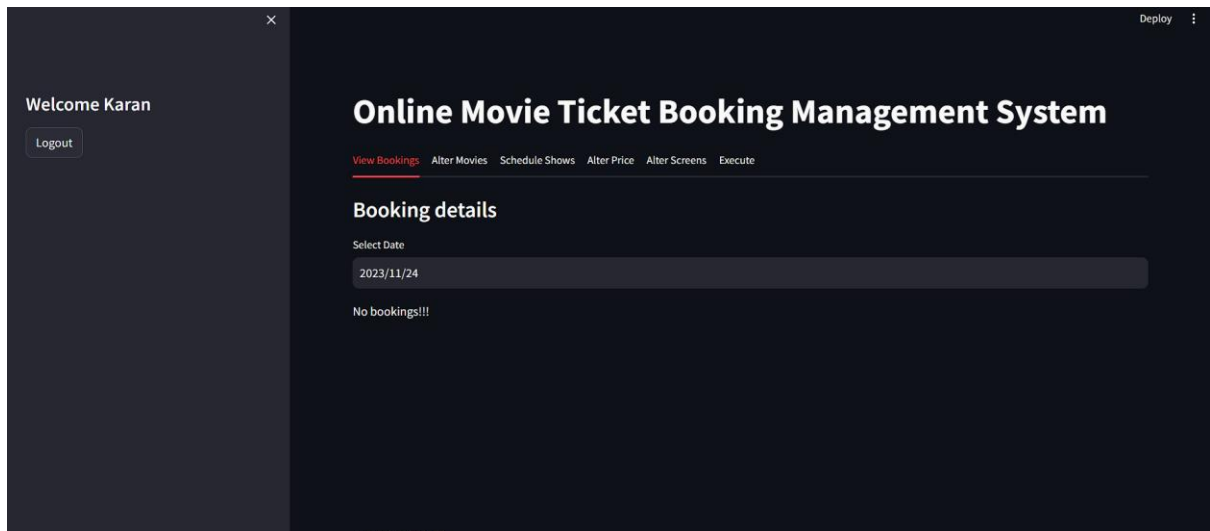
The frontend for the database was made using the streamlit module on top of python. It provides a generic and fluid UI that is easy to follow and use and is highly customisable.

Login Page:



The screenshot shows a web application titled "Online Movie Ticket Booking Management System". It features a login form with two input fields: "User-Id" containing "001" and "Password" containing "karan001". The password field has a toggle icon on the right. Below the fields is a "Login" button. In the top right corner, there is a "Deploy" button and a vertical ellipsis menu icon.

UI:



View:

<div>View Bookings Alter Movies Schedule Shows Alter Price Alter Screens Execute</div> <h2>Booking details</h2> <div>Select Date</div> <div>2023/11/17</div>									
	Show_id	Ticket_id	Seat_no	Type	Time	Date	Screen_id	Movie_id	Price_id
0	1	35	100	3	12:00:00	2023-11-17	1	101	1
1	1	170	115	3	12:00:00	2023-11-17	1	101	1
2	2	10	90	2	11:30:00	2023-11-17	3	103	2
3	2	64	85	2	11:30:00	2023-11-17	3	103	2

Adding New Movie:

×

Welcome Karan

Logout

Deploy

Online Movie Ticket Booking Management System

View BookingsAlter MoviesSchedule ShowsAlter PriceAlter ScreensExecute

Add New Movies:

Movie ID:

106

Language

Kannada

Movie Name:

KGF

Select Premier Date

2023/11/21

Duration:

135

Select Last Showing Date

2023/12/20

Add Movie

Successfully added Movie: KGF

×

Welcome Karan

Logout

Deploy

Alter Movie details

Movies:

Black Panther 2

Language

English

Movie ID:

Select Premier Date

2023/11/24

Duration:

Select Last Showing Date

2023/11/24

Add Movie

Show table

	0	1	2	3	4	5
0	101	Black Panther 2	English	161	2023-11-11	2023-12-11
1	102	Ram Setu	Hindi	143	2023-10-25	2023-11-28
2	103	Kantara	Kannada	150	2023-09-30	2023-12-10
3	104	Avatar-2	English	195	2023-12-16	2023-01-29
4	105	Bhediya	Hindi	156	2023-11-25	2023-12-25
5	106	KGF	Kannada	135	2023-11-21	2023-12-20

Deleting Movie:

×

Welcome Karan

Logout

Deploy

Duration:

135

Select Last Showing Date

2023/12/20

Add Movie

Delete Movie

Successfully deleted Movie: KGF

Alter Movie details

Movies:

Black Panther 2

Language

English

Movie ID:

Select Premier Date

2023/11/24

After Delete:

Show table

	0	1	2	3	4	5
0	101	Black Panther 2	English	161	2023-11-11	2023-12-11
1	102	Ram Setu	Hindi	143	2023-10-25	2023-11-28
2	103	Kantara	Kannada	150	2023-09-30	2023-12-10
3	104	Avatar-2	English	195	2023-12-16	2023-01-29
4	105	Bhediya	Hindi	156	2023-11-25	2023-12-25

Updating Price_list:

Welcome Karan

Logout

Online Movie Ticket Booking Management System

View Bookings
Alter Movies
Schedule Shows
Alter Price
Alter Screens
Execute

Add Price_list

Price-Id:

Type:

Day:

Price:

Add Price_list

Update Price_list

Price-Id:

1

Type:

3

Day:

Tuesday

Price:

350

Update Price_list

After Updating:

Welcome Karan

Logout

350

Update Price_list

Delete Price_list:

Price-Id:

1

Delete

Show table

	0	1	2	3
0	1	3	Tuesday	350
1	2	3	Saturday	500
2	3	2	Friday	350
3	4	2	Saturday	350
4	5	1	Sunday	450

1
 2
 3
 4
 5
 6
 7
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 98
 99

Adding Screens:

Welcome Karan
Logout

Deploy

Online Movie Ticket Booking Management System

View Bookings Alter Movies Schedule Shows Alter Price Alter Screens Execute

Add Screens

Screen-Id:
6

Class:
Club

No_of_seats:
120

Add Screen

After Adding:

Welcome Karan
Logout

Deploy

120

Add Screen

Update Screen

Delete Screen:

Screen-Id:
1

Delete

Show table

	0	1	2
0	1	Platinum	100
1	2	standard	150
2	3	gold	120
3	4	platinum	50
4	5	gold	100
5	6	Club	120

Adding New Show For a Screen:

Welcome Karan
Logout

Deploy

Online Movie Ticket Booking Management System

View Bookings Alter Movies Schedule Shows Alter Price Alter Screens Execute

Add New Shows:

Show-Id:
6

Screen-Id
1

Type
1

Movie-Id
101

Time
20:00

Price-Id
2

Date
2023/11/23

Add

Update Shows:

After Adding:

×

Welcome Karan

Logout

Deploy

⋮

19:15

1

Date

2023/11/24

Update

Delete Shows

Shows:

1

Delete Movie

Show table

	0	1	2	3	4	5	6
0	1	3	12:00:00	2023-11-17	1	101	1
1	2	2	11:30:00	2023-11-17	3	103	2
2	3	3	12:00:00	2023-11-18	1	101	1
3	4	2	11:30:00	2023-11-19	2	102	3
4	5	1	21:30:00	2023-11-20	4	101	5
5	6	1	20:00:00	2023-11-23	1	101	2

Custom Querying:

×

Welcome Karan

Logout

Deploy

⋮

Online Movie Ticket Booking Management System

View Bookings Alter Movies Schedule Shows Alter Price Alter Screens Execute

Enter to execute:

select * from pes1ug21cs268_289_user

Execute Query

Successfully Executed Queries

View Details

0	1	2
Rohit	7	rohit34@gmail.com
Manoj	10	manojk12@gmail.com
Neeraj	18	neeraj@gmail.com
Rahul	65	rahul223@gmail.com
Varun HR	700	varunhr@gmail.com