



DBMS PROJECT

MOVIE TICKETS BOOKING SYSTEM

# DBMS PROJECT

## TOPIC: MOVIE TICKET BOOKING SYSTEM

### PROBLEM STATEMENT:

Movie Ticket Booking Database Design is basically aimed to provide complete information of the movie and schedule to the customer according to which he or she can easily book tickets for their favourite movies. The database administrator can insert and delete data like movie schedules, shows timings, genre, cast and crew details, etc.

One can have wholesome cinematic experience by just booking tickets from their mobiles which saves their time and reduces effort. The details of the customer, tickets, payments, etc are stored. Customer can select the movies of their choice by taking the rating of movie into consideration.

### ASSUMPTIONS:

- A customer can book any number of tickets with a single customer id.
- Only one seat can be booked for a single ticket.
- One theatre can have multiple seat type names with different costs.
- Multiple theatres can have seat types with same name.
- One customer can make many payments.
- Any number of tickets can be booked in a single payment.
- One movie can be screened in any number of shows.
- This database is applicable to single screen theatres.
- Any number of shows can be screened in a theatre in a single day.

### TABLES:

#### 1. CUSTOMER:

| Attributes  | Datatypes    | Constraints |
|-------------|--------------|-------------|
| Customer_id | Int          | Primary key |
| First_name  | Varchar (30) | NOT NULL    |
| Last_name   | Varchar (30) | NOT NULL    |
| age         | Int          | NOT NULL    |

|        |              |                  |
|--------|--------------|------------------|
| Gender | Varchar (1)  | NOT NULL         |
| Mobile | Varchar (10) | UNIQUE, NOT NULL |
| email  | Varchar (20) | UNIQUE           |

## 2. MOVIE:

| Attributes     | Datatype      | constraints |
|----------------|---------------|-------------|
| Movie_id       | Int           | Primary key |
| Movie_name     | Varchar (30)  | NOT NULL    |
| Genre          | Varchar (30)  | NOT NULL    |
| Releasing_date | Date          | NOT NULL    |
| Rating         | Decimal (2,1) | -           |
| Cast           | Varchar (50)  | NOT NULL    |
| Duration       | Time          | NOT NULL    |

## 3. THEATRE:

| Attributes   | Datatype     | Constraints |
|--------------|--------------|-------------|
| Theatre_id   | Int          | Primary key |
| Theatre_name | Varchar (20) | NOT NULL    |
| Location     | Varchar (20) | NOT NULL    |
| Capacity     | Int          | -           |

## 4. SHOWS:

| Attributes     | Datatype     | Constraints                      |
|----------------|--------------|----------------------------------|
| Show_name      | Varchar (20) | Primary key (1)                  |
| Theatre_id     | Int          | Primary key (2), Foreign key (1) |
| Show_date      | Date         | Primary key (3)                  |
| Show_time      | Time         | NOT NULL                         |
| Movie_language | Varchar (20) | NOT NULL                         |
| Movie_id       | Int          | Foreign key (2)                  |

## 5. PAYMENT:

| Attributes | Datatype | Constraints |
|------------|----------|-------------|
| Payment_id | Int      | Primary key |
| Price      | Int      | NOT NULL    |

|              |              |             |
|--------------|--------------|-------------|
| Payment_mode | Varchar (20) | NOT NULL    |
| Payment_date | Date         | NOT NULL    |
| Customer_id  | Int          | Foreign key |

#### 6. SEAT\_TYPE:

| Attributes         | Datatype     | Constraints                  |
|--------------------|--------------|------------------------------|
| Seat_type_name     | Varchar (20) | Primary key (1)              |
| Theatre_id         | Int          | Primary key (2), Foreign key |
| Cost               | Int          | NOT NULL                     |
| Seat_type_capacity | Int          | NOT NULL                     |

#### 7. TICKET:

| Attributes  | Datatype | Constraints     |
|-------------|----------|-----------------|
| Ticket_id   | Int      | Primary key     |
| Customer_id | Int      | Foreign key (1) |
| Theatre_id  | Int      | Foreign key (2) |
| Payment_id  | Int      | Foreign key (3) |
| Show_id     | Int      | Foreign key (4) |
| Show_data   | Int      | Foreign key (5) |

#### 8. SEAT:

| Attributes     | Datatype     | Constraints                    |
|----------------|--------------|--------------------------------|
| Seat_number    | Varchar (5)  | NOT NULL                       |
| Seat_type_name | Varchar (20) | Foreign key (1)                |
| Theatre_id     | Int          | Foreign key (2)                |
| Ticket_id      | Int          | Primary key<br>Foreign key (3) |

## FUNTIONAL DEPENDENCIES AND PRIMARY KEY:

### 1. CUSTOMER:

Customer\_id-> {First\_name, Last\_name, age, gender, mobile, email}

Since all the fields depend on customer\_id, (customer\_id) + -> R.

Hence, Customer\_id is a primary key.

### 2. MOVIE:

Movie\_id-> {Movie\_name, genre, release\_date, rating, cast, duration}

Since all the fields depend on Movie\_id, (Movie\_id) + -> R.

Hence, Movie\_id is a primary key.

### 3. THEATRE:

Theatre\_id-> {Theatre\_name, location, capacity}

Since all the fields depend on Theatre\_id, (Theatre\_id) + -> R.

Hence, Theatre\_id is a primary key.

### 4. SHOWS:

{Show\_name, Theatre\_id, Show\_date}-> {Show\_time, Movie\_language, Movie\_id}

Since all the fields depend on (Theatre\_id, Show\_name, Show\_date) + -> R.

Hence, (Show\_name, Show\_date, Theatre\_id) are combinedly a composite primary key.

### 5. PAYMENT:

Payment\_id-> {Price, Payment\_mode, Payment\_date, Customer\_id}

Since all the fields depend on Payment\_id, (Payment\_id) + -> R.

Hence, Payment\_id is a primary key.

6. SEAT\_TYPE:

(Seat\_type\_name, Theatre\_id) → {Cost, Seat\_type\_capacity}

Since all the fields depend on Seat\_type\_name and Theatre\_id,

(Seat\_type\_name, Theatre\_id) → R

Hence, (Seat\_type\_name, Theatre\_id) combinedly becomes a composite primary key.

7. TICKET:

Ticket\_id → {Customer\_id, Theatre\_id, Payment\_id, Show\_name, Show\_date}

Since all fields depend on Ticket\_id, (Ticket\_id) → R

Hence, Ticket\_id is a primary key.

8. SEAT:

Ticket\_id → (Seat\_number, Seat\_type\_name, Theatre\_id)

Since all fields depend on Ticket\_id, (Ticket\_id) → R

Hence, Ticket\_id is a primary key.

## NORMALISATION:

### 1. CUSTOMER:

Primary key: customer\_id

All attributes depend on the Customer\_id, hence the table is in 2NF.

All attributes depend directly on Customer\_id hence the table is in 3NF.

All determinants (customer\_id) is Super key, hence the table is in BCNF.

### 2. MOVIE:

Primary key: Movie\_id

All attributes depend on the Movie\_id, hence the table is in 2NF.

All attributes depend directly on Movie\_id hence the table is in 3NF.

All determinants (Movie\_id) is Super key, hence the table is in BCNF.

### 3. THEATRE:

Primary key: Theatre\_id

All attributes depend on the Theatre\_id, hence the table is in 2NF.

All attributes depend directly on Theatre\_id hence the table is in 3NF.

All determinants (Theatre\_id) is Super key, hence the table is in BCNF.

### 4. SHOWS:

Primary key: Theatre\_id, Show\_name, Show\_date

All attributes depend on the Theatre\_id, Show\_name, Show\_date hence the table is in 2NF.

All attributes depend directly on Theatre\_id, Show\_name, Show\_date hence the table is in 3NF.

All determinants (Theatre\_id, Show\_name, Show\_date) is Super key, hence the table is in BCNF.

5. PAYMENT:

Primary key: Payment\_id

All attributes depend on the Payment\_id hence the table is in 2NF.

All attributes depend directly on Payment\_id hence the table is in 3NF.

All determinants (Payment\_id) is Super key, hence the table is in BCNF.

6. SEAT\_TYPE:

Primary key: Theatre\_id, Seat\_type\_name

All attributes depend on the Theatre\_id, Seat\_type\_name hence the table is in 2NF.

All attributes depend directly on Theatre\_id, Seat\_type\_name hence the table is in 3NF.

All determinants (Theatre\_id, Seat\_type\_name) is Super key, hence the table is in BCNF.

7. TICKET:

Primary key: Ticket\_id

All attributes depend on the Ticket\_id hence the table is in 2NF.

All attributes depend directly on Ticket\_id hence the table is in 3NF.

All determinants (Ticket\_id) is Super key, hence the table is in BCNF.

8. SEAT:

Primary key: Ticket\_id

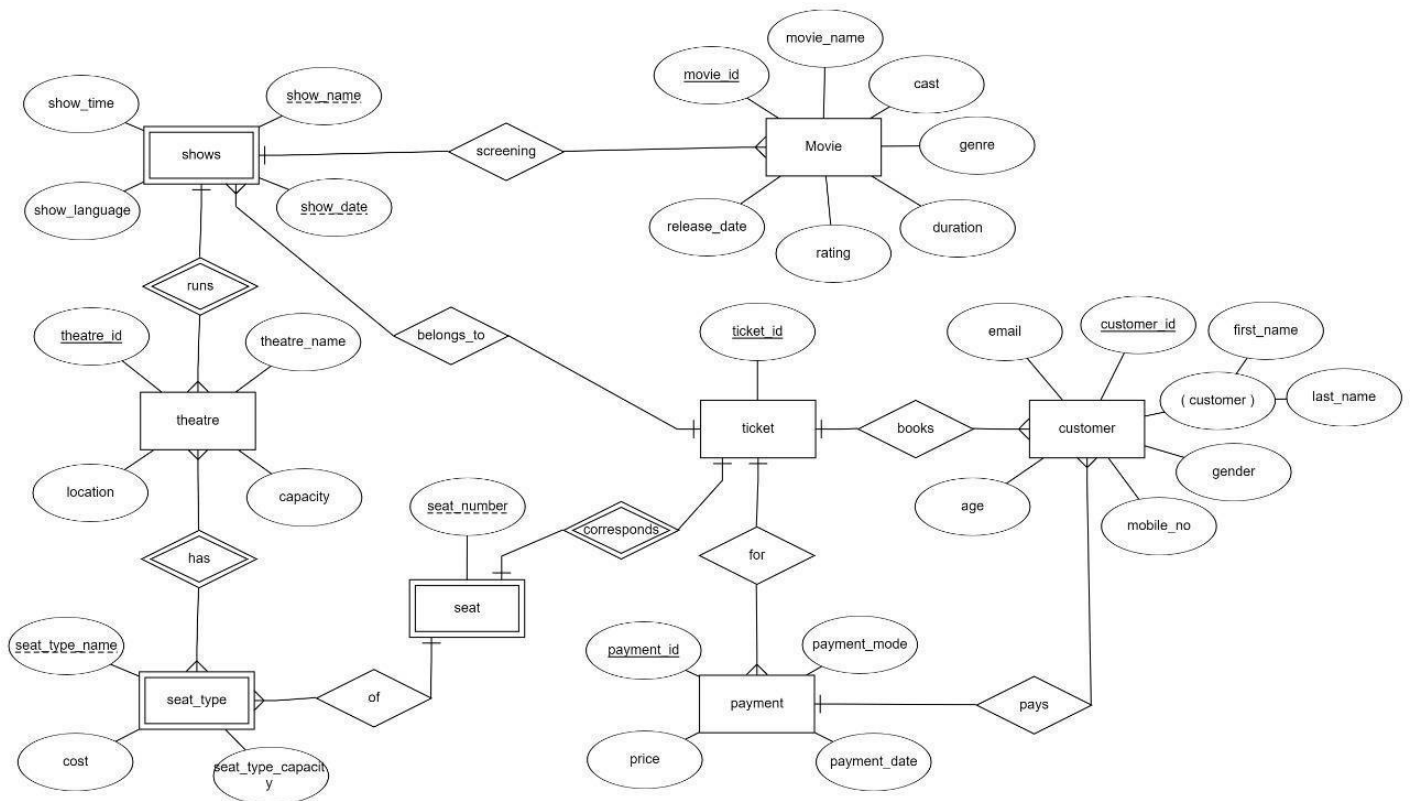
All attributes depend on the Ticket\_id hence the table is in 2NF.

All attributes depend directly on Ticket\_id hence the table is in 3NF.

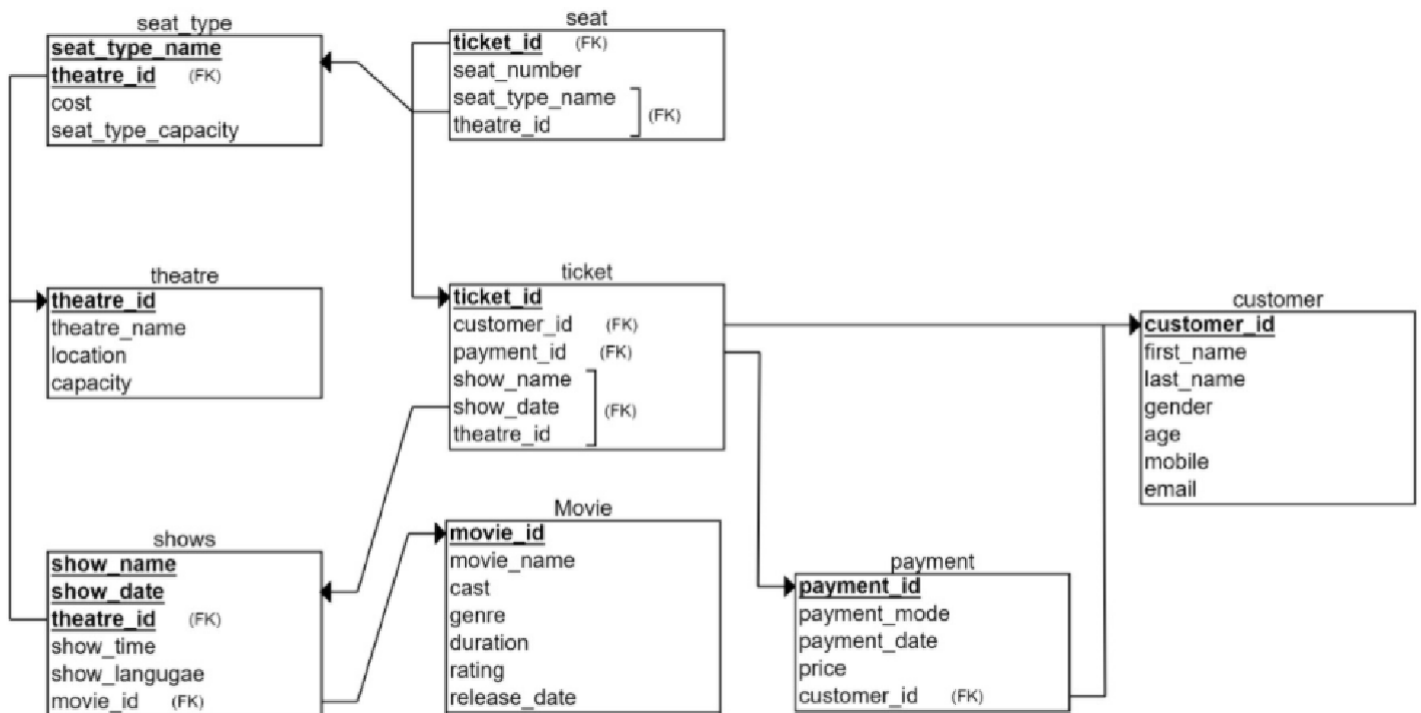
All determinants (Ticket\_id) is Super key, hence the table is in BCNF.



## ER DIAGRAM:



## RELATIONAL SCHEMA:



## MYSQL CODE:

## CREATING TABLES:

```
CREATE DATABASE Movie_tickets_Booking;
```

```
CREATE TABLE CUSTOMER(  
    customer_id int PRIMARY KEY,  
    first_name varchar(30) NOT NULL,  
    last_name varchar(30) NOT NULL,  
    gender varchar(1) NOT NULL,  
    age int NOT NULL,  
    mobile varchar(10) UNIQUE,  
    email varchar(20) UNIQUE  
);
```

```
CREATE TABLE MOVIE(  
    movie_id int PRIMARY KEY,  
    movie_name varchar(30) NOT NULL,  
    cast varchar(50) NOT NULL,  
    genre varchar(30) NOT NULL,  
    duration time NOT NULL,  
    rating DECIMAL(2,1),  
    release_date date  
);
```

```
CREATE TABLE THEATRE(  
    theatre_id int PRIMARY KEY,  
    theatre_name varchar(20) NOT NULL,  
    location varchar(20) ,  
    capacity int  
);
```

```
CREATE TABLE SHOWS(  
    show_name varchar(20) ,  
    show_date date ,  
    theatre_id int ,  
    show_time varchar(10) NOT NULL,  
    show_language varchar(20) NOT NULL,  
    movie_id int ,  
    PRIMARY KEY(show_name,show_date,theatre_id),  
    FOREIGN KEY (movie_id) REFERENCES movie(movie_id) ON DELETE SET NULL,  
    FOREIGN KEY (theatre_id) REFERENCES theatre(theatre_id) ON DELETE CASCADE  
);
```

```
CREATE TABLE PAYMENT(  
    payment_id int PRIMARY KEY,  
    payment_mode varchar(20) NOT NULL,  
    payment_date date NOT NULL,  
    price int NOT NULL,  
    customer_id int,  
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id) ON DELETE SET NULL  
);
```

```
CREATE TABLE SEAT_TYPE(
    seat_type_name varchar(20) ,
    theatre_id int ,
    cost int NOT NULL,
    seat_type_capacity int,
    PRIMARY KEY (seat_type_name,theatre_id),
    FOREIGN KEY (theatre_id) REFERENCES theatre(theatre_id) ON DELETE CASCADE
);
```

```
CREATE TABLE TICKET(
    ticket_id int PRIMARY KEY,
    customer_id int,
    payment_id int,
    show_name varchar(20),
    show_date date,
    theatre_id int,
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id) ON DELETE SET NULL,
    FOREIGN KEY (payment_id) REFERENCES payment(payment_id) ON DELETE SET NULL,
    FOREIGN KEY (show_name,show_date,theatre_id) REFERENCES shows(show_name,show_date,theatre_id) ON DELETE SET NULL
);
```

```
CREATE TABLE SEAT(
    ticket_id int PRIMARY KEY,
    seat_number varchar(5) NOT NULL,
    seat_type_name varchar(20) NOT NULL,
    theatre_id int NOT NULL,
    FOREIGN KEY (ticket_id) REFERENCES ticket(ticket_id) ON DELETE CASCADE
);
```

## INSERTING DATA:

```
INSERT INTO CUSTOMER VALUES(101,'Sai','Prathyush','M',19,'9963321540','sp@gmail.com');
INSERT INTO CUSTOMER VALUES(102,'Rahul','Bomma','M',20,'9973638383','rb@yahoo.com');
INSERT INTO CUSTOMER VALUES(103,'Varun','Kumar','M',19,'9879654376','vk@gmail.com');
INSERT INTO CUSTOMER VALUES(104,'Samar','Reddy','M',22,'8739238373','sr@gmail.com');
INSERT INTO CUSTOMER VALUES(105,'Eren','Yenger','M',32,'8652839287','ey@gmail.com');
INSERT INTO CUSTOMER VALUES(106,'Sakura','Haruno','F',17,'9827387283','sh@gmail.com');
INSERT INTO CUSTOMER VALUES(107,'Anjali','Devi','F',45,'9834938748','ad@gmail.com');
INSERT INTO CUSTOMER VALUES(108,'Mahesh','Babu','M',46,'9990929893','gmb@yahoo.com');
INSERT INTO CUSTOMER VALUES(109,'Olivia','Morris','F',33,'9996664443','om@gmail.com');
INSERT INTO CUSTOMER VALUES(110,'Gayathri','Priya','F',35,'9003724540','gp@gmail.com');
INSERT INTO CUSTOMER VALUES(111,'Mitsuha','Miamizo','F',27,'9968721375','mm@gmail.com');
```

```
INSERT INTO MOVIE VALUES(301,'Major','Adivi Sesh,Saiee Manjrekar','Action,Drama','02:30:00',9.4,'2022-10-05');
INSERT INTO MOVIE VALUES(302,'Spiderman:no way home','Tom Holland,Zendaya','Action,Sci-fi','02:28:00',9.5,'2022-10-12');
INSERT INTO MOVIE VALUES(303,'Ms Dhoni:The untold story','Sushant singh rajput,kiara Advani','Drama','03:40:00',8.9,'2022-10-07');
INSERT INTO MOVIE VALUES(304,'PK','Aamir khan,Anushka sharma','Drama','02:32:00',9.0,'2022-07-20');
INSERT INTO MOVIE VALUES(305,'Vikram','kamal hassan,vijay sethupathi,faahad faasil','Action,fantasy','02:52:00',9.4,'2022-10-16');
INSERT INTO MOVIE VALUES(306,'mugen train','kamado tanjiro,kyojuro rengoku','action,fantasy','01:57:00',9.2,'2022-10-13');
INSERT INTO MOVIE VALUES(307,'KGF2','yash,srinidhi shetty,sanjay dutt','action,drama','02:53:22',9.5,'2022-10-02');
INSERT INTO MOVIE VALUES(308,'your name','taki tachibana,miki okudera','sci-fi,romance','01:45:00',8.8,'2022-10-15');
INSERT INTO MOVIE VALUES(309,'RRR','jr,ntr,ram charan,alia','action,drama','03:00:06',9.5,'2022-10-07');
```

```
INSERT INTO PAYMENT VALUES(201,'cash','2022-10-16',200,102);
INSERT INTO PAYMENT VALUES(202,'card','2022-10-04',100,106);
INSERT INTO PAYMENT VALUES(203,'upi','2022-10-07',100,101);
INSERT INTO PAYMENT VALUES(204,'cash','2022-10-06',1500,107);
INSERT INTO PAYMENT VALUES(205,'upi','2022-10-05',200,109);
INSERT INTO PAYMENT VALUES(206,'card','2022-10-06',400,103);
INSERT INTO PAYMENT VALUES(207,'upi','2022-10-16',200,110);
INSERT INTO PAYMENT VALUES(208,'cash','2022-10-16',250,101);
INSERT INTO PAYMENT VALUES(209,'upi','2022-10-07',300,105);
INSERT INTO PAYMENT VALUES(210,'upi','2022-10-11',400,108);
```



```

INSERT INTO THEATRE VALUES(501,'Siri','Vijayawada',220);
INSERT INTO THEATRE VALUES(502,'S2','Hanamkonda',120);
INSERT INTO THEATRE VALUES(503,'Devi','Warangal',100);
INSERT INTO THEATRE VALUES(504,'PVR Cinemas','Hyderabad',150);
INSERT INTO THEATRE VALUES(505,'IMAX','Delhi',200);
INSERT INTO THEATRE VALUES(506,'Amrutha','Pune',100);
INSERT INTO THEATRE VALUES(507,'Bhavani','kazipet',150);
INSERT INTO THEATRE VALUES(508,'AMB','Hyderabad',50);
INSERT INTO THEATRE VALUES(509,'Mayuri','Kakinada',120);
INSERT INTO THEATRE VALUES(510,'Rain cinema','Nellore',200);

```

```

INSERT INTO SHOWS VALUES('Matinee show','2022-10-07',507,'02:30','telugu',301);
INSERT INTO SHOWS VALUES('First show','2022-10-16',503,'06:45','telugu',305);
INSERT INTO SHOWS VALUES('Morning show','2022-10-17',504,'10:45','english',302);
INSERT INTO SHOWS VALUES('First show','2022-10-16',505,'06:15','korean',308);
INSERT INTO SHOWS VALUES('Second show','2022-10-07',508,'09:45','telugu',309);
INSERT INTO SHOWS VALUES('First show','2022-10-06',506,'06:35','telugu',307);
INSERT INTO SHOWS VALUES('Second show','2022-10-18',501,'09:45','english',306);
INSERT INTO SHOWS VALUES('First show','2022-10-08',509,'06:30','telugu',307);
INSERT INTO SHOWS VALUES('First show','2022-10-11',510,'06:45','telugu',303);
INSERT INTO SHOWS VALUES('First show','2022-10-06',502,'6:00','hindi',304);

```

```

INSERT INTO TICKET VALUES(801,107,204,'First show','2022-10-06',506);
INSERT INTO TICKET VALUES(802,103,206,'First show','2022-10-06',502);
INSERT INTO TICKET VALUES(803,105,209,'First show','2022-10-08',509);
INSERT INTO TICKET VALUES(804,110,207,'Second show','2022-10-18',501);
INSERT INTO TICKET VALUES(805,109,205,'Second show','2022-10-07',508);
INSERT INTO TICKET VALUES(806,101,203,'Matinee show','2022-10-07',507);
INSERT INTO TICKET VALUES(807,108,210,'First show','2022-10-11',510);
INSERT INTO TICKET VALUES(808,106,202,'First show','2022-10-16',505);
INSERT INTO TICKET VALUES(809,101,208,'First show','2022-10-16',503);
INSERT INTO TICKET VALUES(810,101,208,'First show','2022-10-16',503);
INSERT INTO TICKET VALUES(811,108,210,'First show','2022-10-11',510);
INSERT INTO TICKET VALUES(812,102,203,'Morning show','2022-10-17',504);

```

```

INSERT INTO SEAT_TYPE VALUES('silver',507,80,100);
INSERT INTO SEAT_TYPE VALUES('gold',507,100,50);
INSERT INTO SEAT_TYPE VALUES('deluxe',503,200,30);
INSERT INTO SEAT_TYPE VALUES('regular',503,125,70);
INSERT INTO SEAT_TYPE VALUES('gold',504,200,30);
INSERT INTO SEAT_TYPE VALUES('silver',504,150,80);
INSERT INTO SEAT_TYPE VALUES('copper',504,100,20);
INSERT INTO SEAT_TYPE VALUES('platinum',505,200,40);
INSERT INTO SEAT_TYPE VALUES('elite',505,100,160);
INSERT INTO SEAT_TYPE VALUES('upper balcony',506,30,150);
INSERT INTO SEAT_TYPE VALUES('lower balcony',506,70,100);
INSERT INTO SEAT_TYPE VALUES('sofas',508,200,30);
INSERT INTO SEAT_TYPE VALUES('deluxe seating',502,400,20);
INSERT INTO SEAT_TYPE VALUES('elite',501,200,15);
INSERT INTO SEAT_TYPE VALUES('regular',509,120,50);
INSERT INTO SEAT_TYPE VALUES('sofas',510,200,20);

```

```


INSERT INTO SEAT VALUES(806,'B15','gold',507);
INSERT INTO SEAT VALUES(809,'A12','regular',503);
INSERT INTO SEAT VALUES(810,'A13','regular',503);
INSERT INTO SEAT VALUES(812,'E14','gold',504);
INSERT INTO SEAT VALUES(801,'F12','upper balcony',506);
INSERT INTO SEAT VALUES(805,'D22','sofas',508);
INSERT INTO SEAT VALUES(802,'C25','deluxe',502);
INSERT INTO SEAT VALUES(804,'G1','elite',501);
INSERT INTO SEAT VALUES(803,'B12','regular',509);
INSERT INTO SEAT VALUES(808,'D16','platinum',505);
INSERT INTO SEAT VALUES(807,'A4','sofas',510);
INSERT INTO SEAT VALUES(811,'A5','sofas',510);

```

## TABLES CREATED:

### 1. CUSTOMER:


Result Grid



Filter Rows:


Edit:







Export/Import:



|   | customer_id | first_name | last_name | gender | age  | mobile     | email         |
|---|-------------|------------|-----------|--------|------|------------|---------------|
| ▶ | 101         | Sai        | Prathyush | M      | 19   | 9963321540 | sp@gmail.com  |
|   | 102         | Rahul      | Bomma     | M      | 20   | 9973638383 | rb@yahoo.com  |
|   | 103         | Varun      | Kumar     | M      | 19   | 9879654376 | vk@gmail.com  |
|   | 104         | Samar      | Reddy     | M      | 22   | 8739238373 | sr@gmail.com  |
|   | 105         | Eren       | Yenger    | M      | 32   | 8652839287 | ey@gmail.com  |
|   | 106         | Sakura     | Haruno    | F      | 17   | 9827387283 | sh@gmail.com  |
|   | 107         | Anjali     | Devi      | F      | 45   | 9834938748 | ad@gmail.com  |
|   | 108         | Mahesh     | Babu      | M      | 46   | 9990929893 | gmb@yahoo.com |
|   | 109         | Olivia     | Morris    | F      | 33   | 9996664443 | om@gmail.com  |
|   | 110         | Gayathri   | Priya     | F      | 35   | 9003724540 | gp@gmail.com  |
|   | 111         | Mitsuha    | Miamizo   | F      | 27   | 9968721375 | mm@gmail.com  |
| ● | NULL        | NULL       | NULL      | NULL   | NULL | NULL       | NULL          |

### 2. MOVIE:

| Result Grid |          | Filter Rows:              | Edit:                                       | Export/Import: | Wrap Cell Content: |        |              |
|-------------|----------|---------------------------|---|----------------|--------------------|--------|--------------|
|             | movie_id | movie_name                | cast  | genre          | duration           | rating | release_date |
| ▶           | 301      | Major                     | Adivi Sesh,Saiee Manjrekar                  | Action,Drama   | 02:30:00           | 9.4    | 2022-10-05   |
|             | 302      | Spiderman:no way home     | Tom Holland,Zendaya                         | Action,Sci-fi  | 02:28:00           | 9.5    | 2022-10-12   |
|             | 303      | Ms Dhoni:The untold story | Sushant singh rajput,kiara Advani           | Drama          | 03:40:00           | 8.9    | 2022-10-07   |
|             | 304      | PK                        | Aamir khan,Anushka sharma                   | Drama          | 02:32:00           | 9.0    | 2022-07-20   |
|             | 305      | Vikram                    | kamal hassan,vijay sethupathi,faahad faasil | Action,fantasy | 02:52:00           | 9.4    | 2022-10-16   |
|             | 306      | mugen train               | kamado tanjiro,kyojuro rengoku              | action,fantasy | 01:57:00           | 9.2    | 2022-10-13   |
|             | 307      | KGf2                      | yash,srinidhi shetty,sanjay dutt            | action,drama   | 02:53:22           | 9.5    | 2022-10-02   |
|             | 308      | your name                 | taki tachibana,miki okudera                 | sci-fi,romance | 01:45:00           | 8.8    | 2022-10-15   |
|             | 309      | RRR                       | jr.ntr,ram charan,alia                      | action,drama   | 03:00:06           | 9.5    | 2022-10-07   |
| *           | NULL     | NULL                      | NULL  | NULL           | NULL               | NULL   | NULL         |

### 3. THEATRE:

Result Grid



Filter Rows:

Edit:

|   | theatre_id | theatre_name | location   | capacity |
|---|------------|--------------|------------|----------|
| ▶ | 501        | Siri         | Vijayawada | 220      |
|   | 502        | S2           | Hanamkonda | 120      |
|   | 503        | Devi         | Warangal   | 100      |
|   | 504        | PVR Cinemas  | Hyderabad  | 150      |
|   | 505        | IMAX         | Delhi      | 200      |
|   | 506        | Amrutha      | Pune       | 100      |
|   | 507        | Bhavani      | kazipet    | 150      |
|   | 508        | AMB          | Hyderabad  | 50       |
|   | 509        | Mayuri       | Kakinada   | 120      |
|   | 510        | Rain cinema  | Nellore    | 200      |
| ✱ | NULL       | NULL         | NULL       | NULL     |

#### 4. PAYMENT:

Result Grid

Filter Rows:

Edit:

|   | payment_id | payment_mode | payment_date | price | customer_id |
|---|------------|--------------|--------------|-------|-------------|
| ▶ | 201        | cash         | 2022-10-16   | 200   | 102         |
|   | 202        | card         | 2022-10-04   | 100   | 106         |
|   | 203        | upi          | 2022-10-07   | 100   | 101         |
|   | 204        | cash         | 2022-10-06   | 1500  | 107         |
|   | 205        | upi          | 2022-10-05   | 200   | 109         |
|   | 206        | card         | 2022-10-06   | 400   | 103         |
|   | 207        | upi          | 2022-10-16   | 200   | 110         |
|   | 208        | cash         | 2022-10-16   | 250   | 101         |
|   | 209        | upi          | 2022-10-07   | 300   | 105         |
|   | 210        | upi          | 2022-10-11   | 400   | 108         |
| ✱ | NULL       | NULL         | NULL         | NULL  | NULL        |

#### 5. SEAT\_TYPE

Result Grid

Filter Rows:

Edit:

|   | seat_type_name | theatre_id | cost | seat_type_capacity |
|---|----------------|------------|------|--------------------|
| ▶ | copper         | 504        | 100  | 20                 |
|   | deluxe         | 503        | 200  | 30                 |
|   | deluxe seating | 502        | 400  | 20                 |
|   | elite          | 501        | 200  | 15                 |
|   | elite          | 505        | 100  | 160                |
|   | gold           | 504        | 200  | 30                 |
|   | gold           | 507        | 100  | 50                 |
|   | lower balcony  | 506        | 70   | 100                |
|   | platinum       | 505        | 200  | 40                 |
|   | regular        | 503        | 125  | 70                 |
|   | regular        | 509        | 120  | 50                 |
|   | silver         | 504        | 150  | 80                 |

## 6. SHOWS:

| Result Grid |              |            |            |           |               |          | Filter Rows: | Edit: | Export/Import: |
|-------------|--------------|------------|------------|-----------|---------------|----------|--------------|-------|----------------|
|             | show_name    | show_date  | theatre_id | show_time | show_language | movie_id |              |       |                |
| ▶           | First show   | 2022-10-06 | 502        | 6:00      | hindi         | 304      |              |       |                |
|             | First show   | 2022-10-06 | 506        | 06:35     | telugu        | 307      |              |       |                |
|             | First show   | 2022-10-08 | 509        | 06:30     | telugu        | 307      |              |       |                |
|             | First show   | 2022-10-11 | 510        | 06:45     | telugu        | 303      |              |       |                |
|             | First show   | 2022-10-16 | 503        | 06:45     | telugu        | 305      |              |       |                |
|             | First show   | 2022-10-16 | 505        | 06:15     | korean        | 308      |              |       |                |
|             | Matinee show | 2022-10-07 | 507        | 02:30     | telugu        | 301      |              |       |                |
|             | Morning show | 2022-10-17 | 504        | 10:45     | english       | 302      |              |       |                |
|             | Second show  | 2022-10-07 | 508        | 09:45     | telugu        | 309      |              |       |                |
|             | Second show  | 2022-10-18 | 501        | 09:45     | english       | 306      |              |       |                |
| •           | NULL         | NULL       | NULL       | NULL      | NULL          | NULL     |              |       |                |

## 7. SEAT:

| Result Grid |           |             |                |            | Filter Rows: | Edit: |
|-------------|-----------|-------------|----------------|------------|--------------|-------|
|             | ticket_id | seat_number | seat_type_name | theatre_id |              |       |
| ▶           | 801       | F12         | upper balcony  | 506        |              |       |
|             | 802       | C25         | deluxe         | 502        |              |       |
|             | 803       | B12         | regular        | 509        |              |       |
|             | 804       | G1          | elite          | 501        |              |       |
|             | 805       | D22         | sofas          | 508        |              |       |
|             | 806       | B15         | gold           | 507        |              |       |
|             | 807       | A4          | sofas          | 510        |              |       |
|             | 808       | D16         | platinum       | 505        |              |       |
|             | 809       | A12         | regular        | 503        |              |       |
|             | 810       | A13         | regular        | 503        |              |       |
|             | 811       | A5          | sofas          | 510        |              |       |
|             | 812       | E14         | gold           | 504        |              |       |
| •           | NULL      | NULL        | NULL           | NULL       |              |       |



## 8. TICKETS:

| Result Grid |           | Filter Rows: |            | Edit:        |            | Export/Import: |  |
|-------------|-----------|--------------|------------|--------------|------------|----------------|--|
|             | ticket_id | customer_id  | payment_id | show_name    | show_date  | theatre_id     |  |
| ▶           | 801       | 107          | 204        | First show   | 2022-10-06 | 506            |  |
|             | 802       | 103          | 206        | First show   | 2022-10-06 | 502            |  |
|             | 803       | 105          | 209        | First show   | 2022-10-08 | 509            |  |
|             | 804       | 110          | 207        | Second show  | 2022-10-18 | 501            |  |
|             | 805       | 109          | 205        | Second show  | 2022-10-07 | 508            |  |
|             | 806       | 101          | 203        | Matinee show | 2022-10-07 | 507            |  |
|             | 807       | 108          | 210        | First show   | 2022-10-11 | 510            |  |
|             | 808       | 106          | 202        | First show   | 2022-10-16 | 505            |  |
|             | 809       | 101          | 208        | First show   | 2022-10-16 | 503            |  |
|             | 810       | 101          | 208        | First show   | 2022-10-16 | 503            |  |
|             | 811       | 108          | 210        | First show   | 2022-10-11 | 510            |  |
|             | 812       | 102          | 203        | Morning show | 2022-10-17 | 504            |  |
| *           | NULL      | NULL         | NULL       | NULL         | NULL       | NULL           |  |

## QUERIES:

1. Display all movie names with rating greater than 9.5.

```
SELECT movie_name FROM MOVIE WHERE rating>=9.5;
```

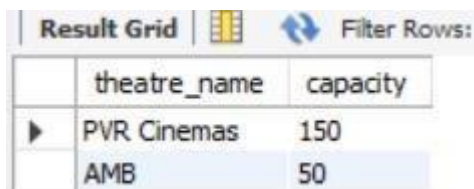


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

|   | movie_name            |
|---|-----------------------|
| ▶ | Spiderman:no way home |
|   | KGF2                  |
|   | RRR                   |

2. Display all theatre names of theatres located in Hyderabad in decreasing order of their capacity.

```
SELECT theatre_name,capacity  
FROM THEATRE  
WHERE location='Hyderabad' ORDER BY capacity DESC;
```

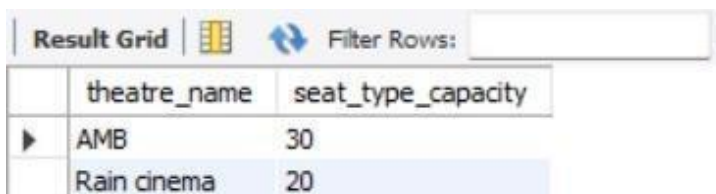


The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

|   | theatre_name | capacity |
|---|--------------|----------|
| ▶ | PVR Cinemas  | 150      |
|   | AMB          | 50       |

3. Display all the theatre names who have 'sofas' in it ordered by number of sofas in each table and display number of sofas in each theatre.

```
SELECT theatre_name,seat_type_capacity  
FROM theatre JOIN seat_type  
WHERE seat_type_name='sofas'  
AND theatre.theatre_id=seat_type.theatre_id ;
```



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The grid contains the following data:

|   | theatre_name | seat_type_capacity |
|---|--------------|--------------------|
| ▶ | AMB          | 30                 |
|   | Rain cinema  | 20                 |

4. Name all the movies watched by customer with first name Eren?

```
SELECT movie_name FROM movie
WHERE movie_id IN(
  SELECT movie_id FROM shows WHERE
  show_name IN (
    SELECT show_name FROM ticket WHERE customer_id IN (
      SELECT customer_id FROM customer WHERE first_name='eren'))
  and
  theatre_id IN(
    SELECT theatre_id FROM ticket WHERE customer_id IN (
      SELECT customer_id FROM customer WHERE first_name='eren'))
  and
  show_date IN(
    SELECT show_date FROM ticket WHERE customer_id IN (
      SELECT customer_id FROM customer WHERE first_name='eren'))
  );
```

| Result Grid |            |
|-------------|------------|
|             | movie_name |
| ▶           | KGF2       |

THANK YOU

