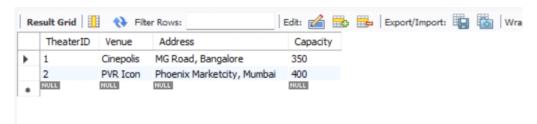
Database Design Assignment

```
create database amds;
USE amds;
CREATE TABLE Clients (
  ClientID INT AUTO INCREMENT PRIMARY KEY,
  Name VARCHAR(100) NOT NULL,
  Email VARCHAR(100) UNIQUE NOT NULL,
  Phone VARCHAR(15) UNIQUE NOT NULL
);
INSERT INTO Clients (Name, Email, Phone) VALUES
('Rahul Mehta', 'rahul.mehta@example.com', '9123456789'),
('Sneha Iyer', 'sneha.iyer@example.com', '9345678912'),
('Arjun Patel', 'arjun.patel@example.com', '9456781234');
SELECT * FROM Clients;
                  Filter Rows:
                                                Edit: 🚄 🖶 Export/Import: 🙀 🖔 Wrap Cell Content: 🔣
  Result Grid
     ClientID
                                                    Phone
              Rahul Mehta
                          rahul.mehta@example.com
                                                   9123456789
 ٠
     1
     2
              Sneha Iyer
                          sneha.iyer@example.com
                                                   9345678912
     3
              Arjun Patel
                          arjun.patel@example.com
                                                   9456781234
    NULL
             HULL
                                                   NULL
CREATE TABLE Movies (
  MovieID INT AUTO_INCREMENT PRIMARY KEY,
  Title VARCHAR(255) NOT NULL,
  Genre VARCHAR(50),
  Duration INT CHECK (Duration > 0),
  PremiereDate DATE
);
INSERT INTO Movies (Title, Genre, Duration, PremiereDate) VALUES
('Dangal', 'Drama', 161, '2016-12-23'),
('3 Idiots', 'Comedy', 170, '2009-12-25'),
('Bahubali', 'Action', 159, '2015-07-10');
SELECT * FROM Movies;
  Result Grid
                                                Edit: 🚄 🖶 🖶 Export/Import: 📳 👸 Wrap Cell Content: 🔣
                 Filter Rows:
               Title
                                           PremiereDate
      MovieID
                        Genre
                                  Duration
 Þ
     1
              Dangal
                        Drama
                                 161
                                           2016-12-23
     2
              3 Idiots
                        Comedy
                                 170
                                           2009-12-25
     3
              Bahubali
                        Action
                                 159
                                           2015-07-10
    HULL
              NULL
                        HULL
                                 NULL
                                          HULL
CREATE TABLE Theaters (
 TheaterID INT AUTO_INCREMENT PRIMARY KEY,
  Venue VARCHAR(100) NOT NULL,
 Address VARCHAR(255) NOT NULL
  Capacity INT CHECK (Capacity > 0)
INSERT INTO Theaters (Venue, Address, Capacity) VALUES
('Cinepolis', 'MG Road, Bangalore', 350),
```

SELECT * FROM Theaters;



CREATE TABLE Bookings (

BookingID INT AUTO_INCREMENT PRIMARY KEY,

ClientID INT,

MovieID INT,

TheaterID INT,

BookingTimestamp DATETIME DEFAULT CURRENT TIMESTAMP,

SeatsBooked INT CHECK (SeatsBooked > 0),

FOREIGN KEY (ClientID) REFERENCES Clients(ClientID) ON DELETE CASCADE,

FOREIGN KEY (MovieID) REFERENCES Movies (MovieID) ON DELETE CASCADE,

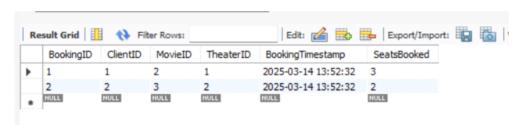
FOREIGN KEY (TheaterID) REFERENCES Theaters(TheaterID) ON DELETE CASCADE);

INSERT INTO Bookings (ClientID, MovieID, TheaterID, SeatsBooked) VALUES

(1, 2, 1, 3),

(2, 3, 2, 2);

SELECT * FROM Bookings;



CREATE TABLE ShowTimes (

ScheduleID INT AUTO_INCREMENT PRIMARY KEY,

MovieID INT,

TheaterID INT,

Date DATE NOT NULL,

Time TIME NOT NULL,

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID) ON DELETE CASCADE,

FOREIGN KEY (TheaterID) REFERENCES Theaters (TheaterID) ON DELETE CASCADE

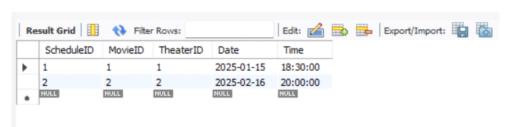
);

INSERT INTO ShowTimes (MovieID, TheaterID, Date, Time) VALUES

(1, 1, '2025-01-15', '18:30:00'),

(2, 2, '2025-02-16', '20:00:00');

SELECT * FROM ShowTimes;



CREATE TABLE Reviews (

ReviewID INT AUTO INCREMENT PRIMARY KEY,

ClientID INT,

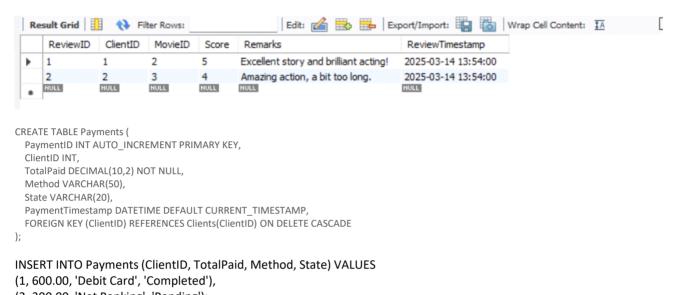
MovieID INT,

Score INT CHECK (Score BETWEEN 1 AND 5),

Remarks TEXT,
ReviewTimestamp DATETIME DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (ClientID) REFERENCES Clients(ClientID) ON DELETE CASCADE,
FOREIGN KEY (MovieID) REFERENCES Movies(MovieID) ON DELETE CASCADE
);

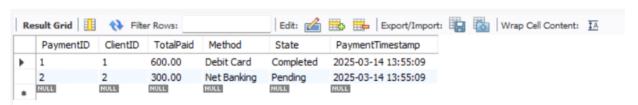
INSERT INTO Reviews (ClientID, MovieID, Score, Remarks) VALUES (1, 2, 5, 'Excellent story and brilliant acting!'), (2, 3, 4, 'Amazing action, a bit too long.');

SELECT * FROM Reviews;



(2, 300.00, 'Net Banking', 'Pending');

SELECT * FROM Payments;



SELECT Clients.Name, Bookings.BookingID, Movies.Title, Bookings.SeatsBooked FROM Bookings



INNER JOIN Clients ON Bookings.ClientID = Clients.ClientID



INNER JOIN Movies ON Bookings. MovieID = Movies. MovieID;



ER Diagram

