**Entities and Attributes**

1. **Theatre**
   * Theatre\_ID (Primary Key)
   * Theatre\_Name
   * Location
2. **Movie**
   * Movie\_ID (Primary Key)
   * Movie\_Name
   * Language
   * Format (e.g., 2D, 3D)
3. **Date**
   * Date\_ID (Primary Key)
   * Show\_Date
4. **Show**
   * Show\_ID (Primary Key)
   * Theatre\_ID (Foreign Key referencing Theatre)
   * Movie\_ID (Foreign Key referencing Movie)
   * Date\_ID (Foreign Key referencing Date)
   * Show\_Time
5. **Booking** (Optional )
   * Booking\_ID (Primary Key)
   * Show\_ID (Foreign Key referencing Show)
   * Seats\_Booked
   * User\_ID
6. **SQL Queries to Create Tables**
7. **Theatre Table**

**CREATE TABLE Theatre ( Theatre\_ID INT PRIMARY KEY, Theatre\_Name VARCHAR(100) NOT NULL, Location  
 VARCHAR(100)   
NOT NULL );  
  
2. Movie Table**

**CREATE TABLE Movie (**

**Movie\_ID INT PRIMARY KEY,**

**Movie\_Name VARCHAR(100) NOT NULL,**

**Language VARCHAR(50) NOT NULL,**

**Format VARCHAR(10) NOT NULL**

**);  
  
  
3. Date Table  
  
 CREATE TABLE Date (**

**Date\_ID INT PRIMARY KEY,**

**Show\_Date DATE NOT NULL**

**);  
  
4. Show Table**

**CREATE TABLE Show (**

**Show\_ID INT PRIMARY KEY,**

**Theatre\_ID INT NOT NULL,**

**Movie\_ID INT NOT NULL,**

**Date\_ID INT NOT NULL,**

**Show\_Time TIME NOT NULL,**

**FOREIGN KEY (Theatre\_ID) REFERENCES Theatre(Theatre\_ID),**

**FOREIGN KEY (Movie\_ID) REFERENCES Movie(Movie\_ID),**

**FOREIGN KEY (Date\_ID) REFERENCES Date(Date\_ID)**

**);  
  
5. Booking Table (Optional)**

**CREATE TABLE Booking (**

**Booking\_ID INT PRIMARY KEY,**

**Show\_ID INT NOT NULL,**

**Seats\_Booked INT NOT NULL,**

**User\_ID INT NOT NULL,**

**FOREIGN KEY (Show\_ID) REFERENCES Show(Show\_ID)**

**);**

**Sample Entries**

1. **Insert into Theatre  
     
   INSERT INTO Theatre (Theatre\_ID, Theatre\_Name, Location)VALUES(1, 'PVR Nexus', 'City Center'),(2, 'Inox Mall', 'Downtown');**
2. **Insert into Movie  
     
   INSERT INTO Movie (Movie\_ID, Movie\_Name, Language, Format)VALUE(1, 'Dasara', 'Telugu', '2D'),(2, 'Kisi Ka Bhai Kisi Ki Jaan',  
    'Hindi', '2D'),(3, 'Tu Jhoothi Main Makkar', 'Hindi', '2D'),(4, 'Avatar:   
    The Way of Water', 'English', '3D');**
3. **Insert into Date  
     
   INSERT INTO Date (Date\_ID, Show\_Date)VALUES(1, '2024-05-25'),(2, '2024-05-26'),(3, '2024-05-27');**
4. **Insert into Show  
     
   INSERT INTO Show (Show\_ID, Theatre\_ID, Movie\_ID, Date\_ID, Show\_Time)VALUES(1, 1, 1, 1, '14:00:00'),(2, 1, 2, 1, '17:00:00'),(3, 1, 3, 1, '19:30:00'),(4, 1, 4, 1, '21:45:00');**
5. **Insert into Booking (Optional)  
     
   INSERT INTO Booking (Booking\_ID, Show\_ID, Seats\_Booked, User\_ID)**

**VALUES(1, 1, 2, 101),(2, 2, 3, 102)**

**P2: Query to List All Shows on a Given Date at a Given Theatre**

**SELECT**

**t.Theatre\_Name,**

**d.Show\_Date,**

**m.Movie\_Name,**

**s.Show\_Time**

**FROM**

**Show s**

**JOIN**

**Theatre t ON s.Theatre\_ID = t.Theatre\_ID**

**JOIN**

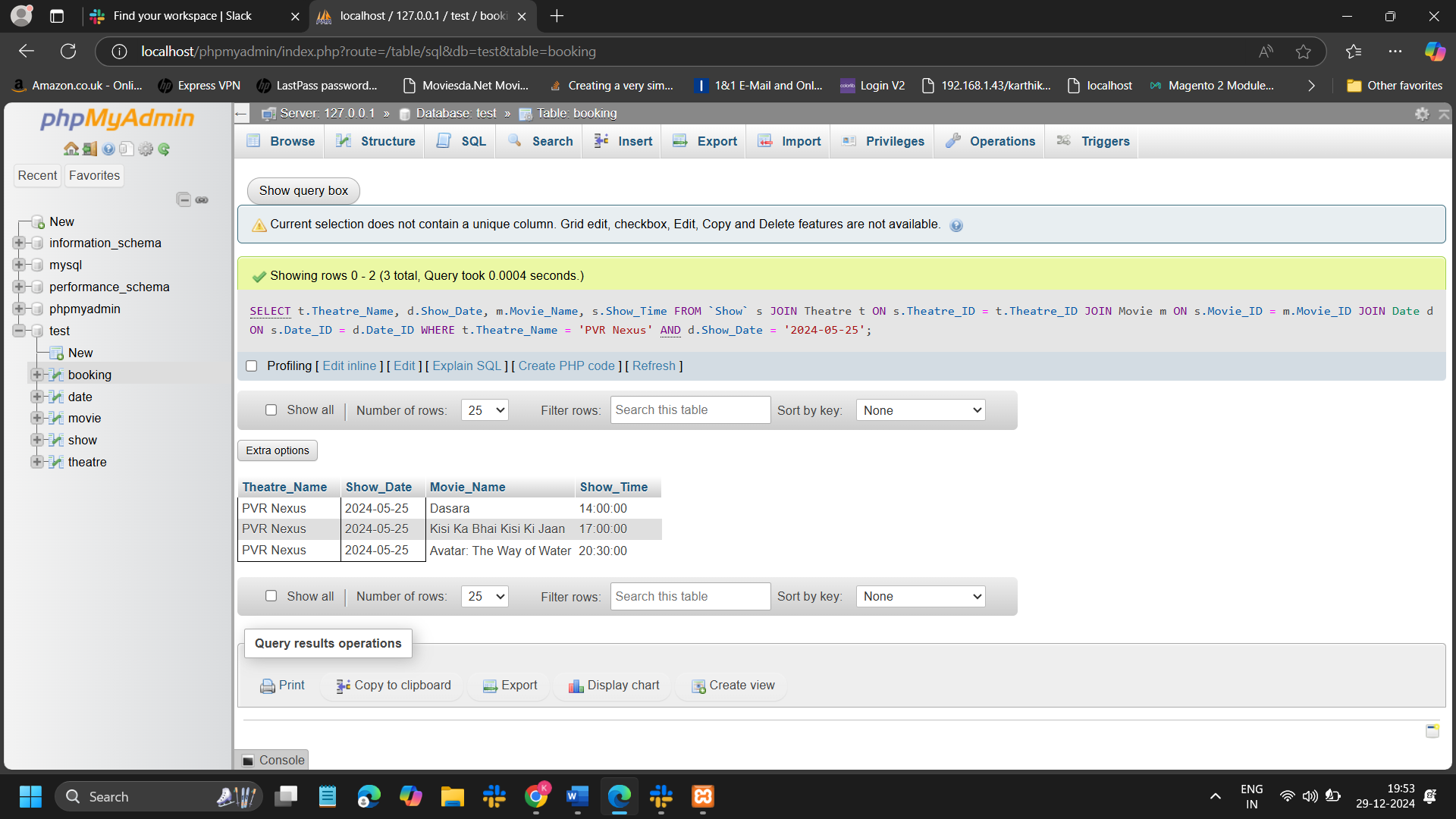
**Movie m ON s.Movie\_ID = m.Movie\_ID**

**JOIN**

**Date d ON s.Date\_ID = d.Date\_ID**

**WHERE**

**t.Theatre\_Name = 'PVR Nexus'**

**AND d.Show\_Date = '2024-05-25';  
  
  
  
  
  
  
  
**