**Part 1: Listing Entities, Attributes, and Table Structures**

For the given scenario (BookMyShow), we can identify the following entities and their attributes:

**Theatre**

1. TheatreID (Primary Key)
2. TheatreName
3. Location

**Movie**

1. MovieID (Primary Key)
2. MovieName
3. Genre
4. Duration
5. Language

**Show**

1. ShowID (Primary Key)
2. TheatreID (Foreign Key referencing Theatre)
3. MovieID (Foreign Key referencing Movie)
4. ShowDate
5. ShowTime

**Ticket**

1. TicketID (Primary Key)
2. ShowID (Foreign Key referencing Show)
3. SeatNumber
4. Price

**Table Structure & SQL Queries:**

**1. Theatre Table**

**CREATE TABLE Theatre (**

**TheatreID INT PRIMARY KEY AUTO\_INCREMENT,**

**TheatreName VARCHAR(255) NOT NULL,**

**Location VARCHAR(255) NOT NULL**

**);**

**-- Sample Entries**

**INSERT INTO Theatre (TheatreName, Location)**

**VALUES ('PVR Cinemas', 'Mumbai'),**

**('INOX', 'Delhi');**

**2. Movie Table**

**CREATE TABLE Movie (**

**MovieID INT PRIMARY KEY AUTO\_INCREMENT,**

**MovieName VARCHAR(255) NOT NULL,**

**Genre VARCHAR(100),**

**Duration TIME,**

**Language VARCHAR(50)**

**);**

**-- Sample Entries**

**INSERT INTO Movie (MovieName, Genre, Duration, Language)**

**VALUES ('Inception', 'Sci-Fi', '02:28:00', 'English'),**

**('3 Idiots', 'Comedy', '02:51:00', 'Hindi');**

**3. Show Table**

**CREATE TABLE Show (**

**ShowID INT PRIMARY KEY AUTO\_INCREMENT,**

**TheatreID INT,**

**MovieID INT,**

**ShowDate DATE NOT NULL,**

**ShowTime TIME NOT NULL,**

**FOREIGN KEY (TheatreID) REFERENCES Theatre(TheatreID),**

**FOREIGN KEY (MovieID) REFERENCES Movie(MovieID)**

**);**

**-- Sample Entries**

**INSERT INTO Show (TheatreID, MovieID, ShowDate, ShowTime)**

**VALUES (1, 1, '2024-08-27', '18:00:00'),**

**(1, 2, '2024-08-27', '21:00:00'),**

**(2, 1, '2024-08-27', '17:00:00');**

**4. Ticket Table**

**CREATE TABLE Ticket (**

**TicketID INT PRIMARY KEY AUTO\_INCREMENT,**

**ShowID INT,**

**SeatNumber VARCHAR(10) NOT NULL,**

**Price DECIMAL(10,2) NOT NULL,**

**FOREIGN KEY (ShowID) REFERENCES Show(ShowID)**

**);**

**-- Sample Entries**

**INSERT INTO Ticket (ShowID, SeatNumber, Price)**

**VALUES (1, 'A1', 350.00),**

**(1, 'A2', 350.00),**

**(2, 'B1', 300.00);**

**Part 2: Query to List All Shows on a Given Date at a Given Theatre**

**SELECT M.MovieName, S.ShowTime**

**FROM Show S**

**JOIN Movie M ON S.MovieID = M.MovieID**

**JOIN Theatre T ON S.TheatreID = T.TheatreID**

**WHERE S.ShowDate = '2024-08-27' AND T.TheatreName = 'PVR Cinemas';**