Entities and their attributes:

1. Theatre
   a. TheatreID (P.K.)
   b. TheatreName
   c. Address
   d. Capacity
2. Movie
   a. MovieID (Primary Key)
   b. MovieTitle
   c. Language
   d. Dimension
3. Show
   a. ShowID (P.K.)
   b. MovieID (F.K.)
   c. TheatreID (F.K.)
   d. ShowDate
   e. ShowTime
   f. Occupancy
   g. TicketPrice

P1:
```
CREATE TABLE Theatre (
    TheatreID INT AUTO_INCREMENT PRIMARY KEY,
    TheatreName VARCHAR(50) NOT NULL,
    Address VARCHAR(255) NOT NULL,
    Capacity INT NOT NULL
);


CREATE TABLE Movie (
    MovieID INT AUTO_INCREMENT PRIMARY KEY,
    MovieTitle VARCHAR(100) NOT NULL,
    Language VARCHAR(20) NOT NULL,
    Dimension VARCHAR(5) NOT NULL
);

CREATE TABLE Show (
    ShowID INT AUTO_INCREMENT PRIMARY KEY,
    MovieID INT NOT NULL,
    TheatreID INT NOT NULL,
    ShowDate DATE NOT NULL,
    ShowTime TIME NOT NULL,
    Occupancy INT NOT NULL,
```

```
  TicketPrice DOUBLE NOT NULL,
  FOREIGN KEY (MovieID) REFERENCES Movie(MovieID),
  FOREIGN KEY (TheatreID) REFERENCES Theatre(TheatreID)
);
```

```
INSERT INTO Theatre (TheatreID, TheatreName, Address, Capacity) VALUES (1, 'PVR:
NEXUS', 'DLF Saket, New Delhi', 500), (2, 'IMAX', 'Ambience, Gurugram', 530);

INSERT INTO Movie (MovieID, MovieTitle, Language, Dimension)
VALUES (1, 'Dasara(UA)', 'Telugu', '2D'), (2, 'Kisi Ka Bhai Kisi Ki Jaan(UA)', 'Hindi', '2D'),
(3, 'Tu Jhoothi Main Makkar(UA)', 'Hindi', '2D'), (4, 'Avatar: The Way of Water(UA)', 'English',
'3D');

INSERT INTO Show (ShowID, MovieID, TheatreID, ShowDate, ShowTime, Occupancy,
TicketPrice)
VALUES (1, 1, 1, '2023-04-25', '12:15:00', 500, 500.00), (2, 2, 1, '2023-04-25', '13:00:00', 500,
500.00),
(3, 2, 1, '2023-04-25', '16:10:00', 25, 750.00),(4, 2, 1, '2023-04-25', '18:20:00', 15, 750.00),
(5, 2, 1, '2023-04-25', '19:20:00', 106, 500.00), (6, 2, 1, '2023-04-25', '22:30:00', 75, 500.00),
(7, 3, 1, '2023-04-25', '13:15:00', 87, 500.00), (8, 4, 1, '2023-04-25', '13:20:00', 143, 950.00);
```

P2:
```
SELECT Movie.MovieTitle, Movie.Language, Movie.Dimension, Show.ShowTime,
Show.TicketPrice, Show.Occupancy
FROM Show
INNER JOIN Movie ON Show.MovieID = Movie.MovieID
WHERE Show.ShowDate = '2023-04-25' AND Show.TheatreID = 1;
```