**BOOK MY SHOW**

Entity-Relationship Diagram:

A diagram of a theater

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Create Table Queries:

CREATE TABLE City (

City\_id INT AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR (100) NOT NULL UNIQUE

);

CREATE TABLE Theatre (

Theatre\_id INT AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR (100) NOT NULL,

City\_id INT NOT NULL,

Address VARCHAR (255),

Phone\_No VARCHAR (10),

FOREIGN KEY (City\_id) REFERENCES City (City\_id)

);

CREATE TABLE Movie (

Movie\_id INT AUTO\_INCREMENT PRIMARY KEY,

Title VARCHAR (200) NOT NULL,

Genre VARCHAR (50),

Duration INT NOT NULL,

Language VARCHAR (50) NOT NULL

);

CREATE TABLE ShowDetails (

Show\_id INT AUTO\_INCREMENT PRIMARY KEY,

Theatre\_id INT NOT NULL,

Movie\_id INT NOT NULL,

ShowDate DATE NOT NULL,

ShowTime TIME NOT NULL,

FOREIGN KEY (Theatre\_id) REFERENCES Theatre (Theatre\_id),

FOREIGN KEY (Movie\_id) REFERENCES Movie (Movie\_id),

UNIQUE (Theatre\_id, Movie\_id, ShowDate, ShowTime)

);

Sample Entries Queries:

**CITY TABLE:**

INSERT INTO City (Name) VALUES

('Chennai'),

('Coimbatore'),

('Delhi');

A list of cities with black text

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**THEATRE TABLE:**

INSERT INTO Theatre (Name, City\_id, Address, Phone\_No) VALUES

('PVR', 1, '123, Velachery, Chennai', '9876543210'),

('Cosmos Cinemas', 2, '123, Narasimhanaickenpalayam', '9876543201'),

('Akshara Theatre', 3, '123, Rohini Nagar, Delhi', '9876543021');

A close-up of a document

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**MOVIE TABLE:**

INSERT INTO Movie (Title, Genre, Duration, Language) VALUES

('Avatar: The Way of Water', 'Sci-Fi', 192, 'English'),

('RRR', 'Action', 187, 'Telugu'),

('Inception', 'Thriller', 148, 'English');

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**SHOW DETAILS TABLE:**

INSERT INTO ShowDetails (Theatre\_id, Movie\_id, ShowDate, ShowTime) VALUES

(1, 1, '2025-1-2', '18:00:00'),

(1, 2, '2025-1-2', '21:00:00'),

(2, 1, '2025-1-3', '20:30:00'),

(2, 3, '2025-1-3', '23:30:00'),

(3, 2, '2025-1-4', '18:30:00'),

(3, 3, '2025-1-4', '21:00:00');

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Description automatically generated

Query to List Shows on a Given Date at a Given Theatre:

SELECT

s.Show\_id,

t.Name AS TheatreName,

c.Name AS City,

m.Title AS MovieTitle,

s.ShowDate,

s.ShowTime

FROM

ShowDetails s

JOIN

Theatre t ON s.Theatre\_id = t.Theatre\_id

JOIN

Movie m ON s.Movie\_id = m.Movie\_id

JOIN

City c ON t.City\_id = c.City\_id

WHERE

s.ShowDate = '2025-1-3'

AND t.Name = 'Cosmos Cinemas';

A screen shot of a computer

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