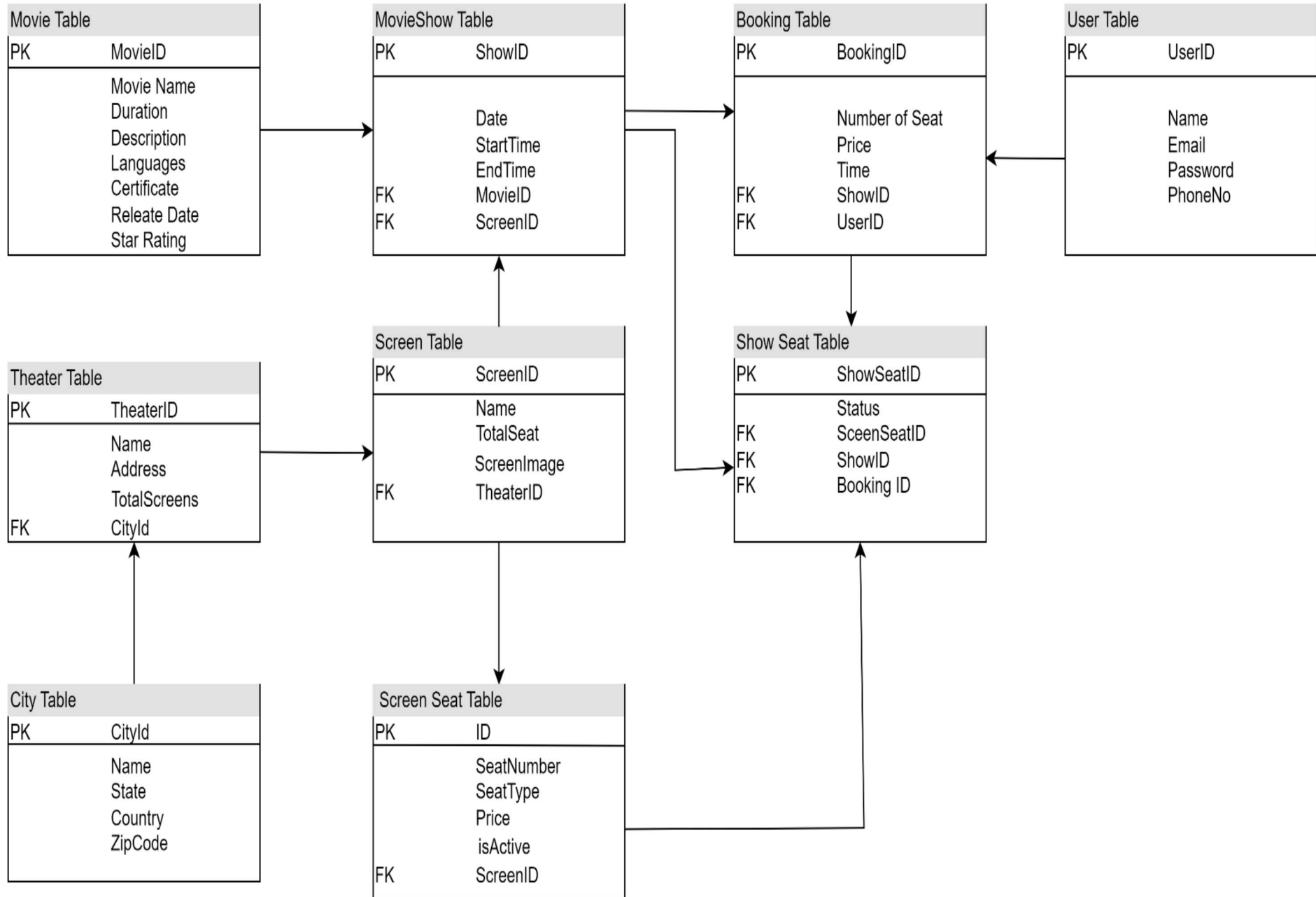


BOOK MY SHOW DATABASE DESIGN



Create Query for All the Above Tables

City Table:

```
CREATE TABLE City (  
    CityId INT PRIMARY KEY,  
    Name VARCHAR(255),  
    State VARCHAR(255),  
    Country VARCHAR(255),  
    ZipCode VARCHAR(255)  
);
```

Theater Table:

```
CREATE TABLE Theater (  
    TheaterID INT PRIMARY KEY,  
    Name VARCHAR(255),  
    Address VARCHAR(255),  
    TotalScreens INT,  
    CityId INT,  
    FOREIGN KEY (CityId) REFERENCES City(CityId)  
);
```

Screen Table:

```
CREATE TABLE Screen (  
    ScreenID INT PRIMARY KEY,  
    Name VARCHAR(255),  
    TotalSeat INT,  
    ScreenImage VARCHAR(255),  
    TheaterID INT,  
    FOREIGN KEY (TheaterID) REFERENCES Theater(TheaterID)  
);
```

Screen Seat Table:

```
CREATE TABLE ScreenSeat (  
    ID INT PRIMARY KEY,  
    SeatNumber INT,  
    SeatType VARCHAR(255),  
    Price DECIMAL(10,2),  
    isActive BOOLEAN,  
    ScreenID INT,  
    FOREIGN KEY (ScreenID) REFERENCES Screen(ScreenID)  
);
```

Movie Table:

```
CREATE TABLE Movie (  
    MovieID INT PRIMARY KEY,  
    MovieName VARCHAR(255),  
    Duration INT,  
    Description TEXT,  
    Languages VARCHAR(255),  
    Certificate VARCHAR(255),  
    ReleaseDate DATE,  
    StarRating DECIMAL(3,2)  
);
```

Show Table:

```
CREATE TABLE Show (  
    ShowID INT PRIMARY KEY,  
    Date DATE,  
    StartTime TIME,  
    EndTime TIME,  
    MovieID INT,  
    ScreenID INT,  
    FOREIGN KEY (MovieID) REFERENCES Movie(MovieID),  
    FOREIGN KEY (ScreenID) REFERENCES Screen(ScreenID)  
);
```

Booking Table:

```
CREATE TABLE Booking (  
    BookingID INT PRIMARY KEY,  
    NumberOfSeat INT,  
    Price DECIMAL(10,2),  
    Time TIME,  
    ShowID INT,  
    UserID INT,  
    FOREIGN KEY (ShowID) REFERENCES Show(ShowID)  
);
```

Show Seat Table:

```
CREATE TABLE ShowSeat (  
    ShowSeatID INT PRIMARY KEY,  
    Status VARCHAR(255),  
    ScreenSeatID INT,  
    ShowID INT,  
    BookingID INT,  
    FOREIGN KEY (ScreenSeatID) REFERENCES ScreenSeat(ID),  
    FOREIGN KEY (ShowID) REFERENCES Show(ShowID),  
    FOREIGN KEY (BookingID) REFERENCES Booking(BookingID)  
);
```

User Table:

```
CREATE TABLE User (  
    UserID INT PRIMARY KEY,  
    Name VARCHAR(255),  
    Email VARCHAR(255),  
    Password VARCHAR(255),  
    PhoneNo VARCHAR(255)  
);
```

Sample Table Data

City Table

WHERE		ORDER BY			
CityId	Name	State	Country	ZipCode	
1	Chennai	Tamil Nadu	India	600001	
2	Coimbatore	Tamil Nadu	India	641001	
3	Madurai	Tamil Nadu	India	625001	
4	Tiruchirappalli	Tamil Nadu	India	620001	
5	Salem	Tamil Nadu	India	636001	

Theater Table

WHERE		ORDER BY			
TheaterID	Name	Address	TotalScreens	CityId	
1	Sathyam Cinemas	Royapettah, Chennai	10	1	
2	Inox Leisure	R.S. Puram, Coimbatore	8	2	
3	Kalaivanar Arangam	Madurai	6	3	
4	Raghavendra Theatre	Tiruchirappalli	5	4	
5	Kumar Theatre	Salem	4	5	

Screen Table

WHERE		ORDER BY			
ScreenID	Name	TotalSeat	ScreenImage	TheaterID	
1	Screen 1	200	https://example.com/screen1.jpg	1	
2	Screen 2	200	https://example.com/screen2.jpg	1	
3	Screen 3	200	https://example.com/screen3.jpg	2	
4	Screen 4	200	https://example.com/screen4.jpg	2	
5	Screen 5	200	https://example.com/screen5.jpg	3	

ScreenSeat Table

WHERE

ORDER BY

	ID	SeatNumber	SeatType	Price	isActive	ScreenID
1	1	1	Standard	10.00	1	1
2	2	2	Standard	10.00	1	1
3	3	3	Standard	10.00	1	1
4	4	4	Premium	15.00	1	2
5	5	2	Premium	15.00	1	2

Movie Table

WHERE

ORDER BY

	M...	MovieName	Duration	Description	Languages	Certifica...	ReleaseDate	StarRating
1	1	The Shawshank Re...	142	Two imprisoned men...	English	PG-13	1994-09-23	9.20
2	2	The Godfather	177	The aging patriarc...	English	R	1972-03-15	9.20
3	3	The Dark Knight	162	When the Joker wre...	English	PG-13	2008-07-18	9.00
4	4	12 Angry Men	96	A jury of 12 men m...	English	NR	1957-06-12	9.00
5	5	Schindler's List	195	A German businessm...	English	R	1993-12-15	8.90

MovieShow

WHERE

ORDER BY

	ShowID	Date	StartTime	EndTime	MovieID	ScreenID
1	1	2024-06-15	10:00:00	12:30:00	1	1
2	2	2024-06-15	14:00:00	16:30:00	2	2
3	3	2024-06-16	10:00:00	12:30:00	3	3
4	4	2024-06-16	14:00:00	16:30:00	4	4
5	5	2024-06-17	10:00:00	12:30:00	5	5

ShowSeat Table

WHERE		ORDER BY				
ShowSeatID	Status	ScreenSeatID	ShowID	BookingID		
1	1 Available		1	1		1
2	2 Available		2	1		1
3	3 Available		3	1		1
4	4 Available		4	2		2
5	5 Available		5	3		3

Booking Table

WHERE		ORDER BY					
BookingID	NumberOfSeat	Price	Time	ShowID	UserID		
1	1	2	20.00 10:00:00		1		1
2	2	1	10.00 14:00:00		2		2
3	3	3	30.00 10:00:00		3		3
4	4	2	20.00 14:00:00		4		4
5	5	1	10.00 10:00:00		5		5

User Table

WHERE		ORDER BY			
UserID	Name	Email	Password	PhoneNo	
1	1 John Doe	johndoe@example.com	password123	1234567890	
2	2 Jane Smith	janesmith@example.com	password123	0987654321	
3	3 Bob Johnson	bobjohnson@example.com	password123	5551234567	
4	4 Alice Brown	alicebrown@example.com	password123	5555551234	
5	5 Michael Davis	michaeldavis@example.com	password123	5551234567	

Query -1

shows on a given date at a given theater, along with their respective show timings.

```
SELECT
    s.ShowID,
    s.Date,
    s.StartTime,
    s.EndTime,
    m.MovieName,
    t.Name AS TheaterName
FROM
    movieshow s
JOIN
    Movie m ON s.MovieID = m.MovieID
JOIN
    Screen sn ON s.ScreenID = sn.ScreenID
JOIN
    Theater t ON sn.TheaterID = t.TheaterID
WHERE
    s.Date = '2024-06-15' AND sn.TheaterID = 1;
```

Output:

	ShowID	Date	StartTime	EndTime	MovieName	TheaterName
1	1	2024-06-15	10:00:00	12:30:00	The Shawshank Redemption	Sathyam Cinemas
2	2	2024-06-15	14:00:00	16:30:00	The Godfather	Sathyam Cinemas

Query -2

shows on a given date along with their respective show timings.

```
SELECT
    s.ShowID,
    s.Date,
    s.StartTime,
    s.EndTime,
    m.MovieName,
    sn.Name as ScreenName,
    t.Name AS TheaterName
FROM
    movieshow s
JOIN
    Movie m ON s.MovieID = m.MovieID
JOIN
    Screen sn ON s.ScreenID = sn.ScreenID
JOIN
    Theater t ON sn.TheaterID = t.TheaterID
WHERE
    s.Date = '2024-06-15';
```



The screenshot shows a database query result viewer with a toolbar at the top containing icons for grid, chart, back, forward, refresh, and search. The toolbar also indicates '2 rows' and has a 'CSV' export option. The results are displayed in a table with 8 columns: ShowID, Date, StartTime, EndTime, MovieName, ScreenName, and TheaterName. The first row shows ShowID 1, Date 2024-06-15, StartTime 14:00:00, EndTime 16:30:00, MovieName The Godfather, ScreenName Screen 2, and TheaterName Sathyam Cinemas. The second row shows ShowID 2, Date 2024-06-15, StartTime 10:00:00, EndTime 12:30:00, MovieName The Shawshank Redemption, ScreenName Screen 1, and TheaterName Sathyam Cinemas.

	ShowID	Date	StartTime	EndTime	MovieName	ScreenName	TheaterName
1	2	2024-06-15	14:00:00	16:30:00	The Godfather	Screen 2	Sathyam Cinemas
2	1	2024-06-15	10:00:00	12:30:00	The Shawshank Redemption	Screen 1	Sathyam Cinemas