CREATION OF TABLES AND INSERTING VALUES INTO IT

Creation and Insertion of Values into TheatreDetails

```
Create table TheatreDetails(
          TheatreId int IDENTITY(1,1) NOT NULL,
          TheatreName varchar(50) NOT NULL,
          Location varchar(50) NOT NULL
)

INSERT INTO TheatreDetails(TheatreName, Location) Values('PVR', 'Pune'), ('Inox', 'Delhi');

Select * from TheatreDetails

Alter TABLE TheatreDetails ADD CONSTRAINT pk_TheatreDetails_TheatreId Primary
KEY(TheatreId)
```

Creation and Insertion of Values into Users

Creation and Insertion of Values into ShowDetails

```
TicketCost Decimal(6,2) NOT NULL,
             TicketAvailable INT NOT NULL
)
INSERT INTO ShowDetails(TheatreId,ShowDate,ShowTime,MovieName,TicketCost,TicketAvailable)
Values(2, '2018-05-28', '14:30', 'Avengers', 250.00, 100),
(2,'2018-05-30','17:30','Hit Man',200.00,150);
# Creation and Insertion of Values into BookingDetails
Create table BookingDetails(
      BookingId VARCHAR(5) PRIMARY KEY,
      UserId VARCHAR(50) NOT NULL constraint fk_Users_UserId_UserId FOREIGN KEY
REFERENCES Users(UserId),
      ShowID INT NOT NULL constraint fk_ShowDetails_ShowId_ShowId FOREIGN KEY REFERENCES
ShowDetails(ShowId),
      NoOfTickets INT NOT NULL,
      TotalAmt DECIMAL(6,2) NOT NULL
INSERT INTO BookingDetails(BookingId, UserId, ShowID, NoOfTickets, TotalAmt)
VALUES('B1001','jack_sparrow',1001,2,500.00),
('B1002', 'mary_potter', 1002, 5, 1000.00)
---Database Before Execution of Stored Procedure and Function
select * from TheatreDetails
Select * from ShowDetails
Select * from Users
Select * from BookingDetails
```

	Theatreld	TheatreName	Location
1	1	PVR	Pune
2	2	Inox	Delhi

	Showld	Theatreld	ShowDate	ShowTime	MovieName	TicketCost	TicketAvailable
1	1001	2	2018-05-28	14:30:00.0000000	Avengers	250.00	95
2	1002	2	2018-05-30	17:30:00.0000000	Hit Man	200.00	140

	UserId	UserName	Password	Age	Gender	Emailld	PhoneNumber
1	jack_sparrow	Jack Sparrow	Spar78!jack	28	M	jack_spa@yahoo.com	7876543210
2	mary_potter	Mary Potter	Mary@123	25	F	mary_p@gmail.com	9876543210

	Bookingld	Userld	ShowID	NoOfTickets	TotalAmt
1	B1001	jack_sparrow	1001	2	500.00
2	B1002	mary_potter	1002	5	1000.00
3	B1003	mary_potter	1001	5	1250.00
4	B1004	mary_potter	1002	10	2000.00

---Creating the Stored Procedure

```
Alter PROC usp_BookTheTicket(@UserId VARCHAR(50),@ShowID INT,@NoOfTickets INT)
if(not exists(SELECT 'a' from Users WHERE UserId = @UserId ))
       begin
              return -1
else if(not exists(SELECT 'a' from ShowDetails WHERE ShowId = @ShowID ))
       begin
              return -2
       end
else if(@NoOfTickets < 0)</pre>
       begin
              return -3
else if(@NoOfTickets > (SELECT TicketAvailable from ShowDetails WHERE ShowID = @ShowID ))
       begin
              return -4
       end
else
       begin
              DECLARE @PreFix VARCHAR(1) = 'B';
              DECLARE @NewId VARCHAR(5);
```

```
DECLARE @Name VARCHAR(50);
            DECLARE @Id INT;
            DECLARE @Total Decimal(6,2) ,@AvailableTicket INT;
            where ShowId=@ShowID
            SELECT @Name = UserName FROM Users where UserId= @UserId
            SELECT @Id = COUNT(*)+1001 FROM BookingDetails
            SELECT @NewId = @PreFix + CAST(@Id AS VARCHAR(4))
            Set @AvailableTicket = @AvailableTicket - @NoOfTickets
            Set @Total = @Total * @NoOfTickets
            INSERT INTO BookingDetails(BookingId,UserId,ShowID,NoOfTickets,TotalAmt)
Values(@NewId,@UserId,@ShowID,@NoOfTickets,@Total)
            UPDATE ShowDetails Set TicketAvailable = @AvailableTicket where ShowId= @ShowID
            return 1
      end
---Executing the stored Procedure
Declare @Ret int
Execute @Ret = usp_BookTheTicket 'mary_potter',1002,10
Print @Ret
```

---Database after Execution of Stored Procedure

	Theatreld	TheatreName	Location
1	1	PVR	Pune
2	2	Inox	Delhi

	Showld	Theatreld	ShowDate	ShowTime	MovieName	TicketCost	TicketAvailable
1	1001	2	2018-05-28	14:30:00.0000000	Avengers	250.00	95
2	1002	2	2018-05-30	17:30:00.0000000	Hit Man	200.00	130

	Userld	UserName	Password	Age	Gender	Emaild	PhoneNumber
1	jack_sparrow	Jack Sparrow	Spar78!jack	28	M	jack_spa@yahoo.com	7876543210
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	Bookingld	UserId	ShowID	NoOfTickets	TotalAmt
1	B1001	jack_sparrow	1001	2	500.00
2	B1002	mary_potter	1002	5	1000.00
3	B1003	mary_potter	1001	5	1250.00
4	B1004	mary_potter	1002	10	2000.00
5	B1005	mary_potter	1002	10	2000.00

--- Creation of Function

```
go
Alter Function ufn_GetMovieShowtimes(@MovieName varchar(50), @Location varchar(50))
returns table
as
return
Select s.MovieName ,s.ShowDate,s.ShowTime,s.TicketCost,t.Location from ShowDetails s JOIN
TheatreDetails t ON s.TheatreId = t.TheatreId where t.Location=@Location and s.MovieName
=@MovieName
go
```

--Executing the Function

```
Select * from ufn_GetMovieShowtimes('Avengers','Delhi');
```

--Output for the execution of the function

	MovieName	ShowDate	ShowTime	TicketCost	Location
1	Avengers	2018-05-28	14:30:00.0000000	250.00	Delhi