Consider a website “FlyTrip.com” used by the customers to book the online flight tickets. Customers can signup/register to book tickets for international and domestic travel. The website helps check the availability of seats based on a source and destination city on a given date.Here are some assumptions with respect to this scenario

The website allows customers to book tickets multiple times

Customers can choose the seats such as economy class, business class while booking the ticket

The flight charges are based on the source and destination and include the charges for the travel class seat chosen at the time of booking.

Here is the database design used by the developers of the website.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Fields** | **Description** |
| tblCustomer | CustId | Unique identification number(id) given to a customer |
|  | CustName | Name of the customer |
| tblFlight | FlightId | Unique identification number of a flight |
|  | FlightName | Name of the flight |
|  | FlightType | Type of flight can be international or domestic |
|  | Source | source city, from where the flight starts |
|  | Destination | destination city, where the flight lands |
|  | FlightCharge | Charge for the flight ticket in INR |
|  | TicketsAvailable | Number of seats Available |
| tblBooking | Bookingid | Unique id generated for each ticket booking, when the customer books a flight ticket |
|  | FlightId | Id of the flight for which ticket is booked. This refers to the flightid from flight table |
|  | CustId | Id of the customer who has booked the ticket. This refers to the custid from customer table |
|  | NoOfSeats | Number of seats booked |
|  | Booking Date | date for which the flight ticket is booked |

Here is the sample data in the tables.





**Stored Procedure: usp\_BookTheTicket**

Create a stored procedure named usp\_BookTheTicket to insert values into the tblBookingDetails. Implement appropriate exception handling.

**Input Parameters:**

CustId

FlightId

NoOfTickets

**Functionality:**

Check if CustId is present in tblCustomer

Check if FlightId is present in tblFlight

Check if NoOfTickets is a positive value and is less than or equal to TicketsAvailable value for that flight

If all the validations are successful, insert the data by generating the BookingId and calculate the total amount based on the TicketCost

**Return Values:**

1, in case of successful insertion

-1,if CustId is invalid

-2,if FlightId is invalid

-3,if NoOfTickets is less than zero

-4,if NoOfTickets is greater than TicketsAvailable

-99,in case of any exception

 Function: ufn\_BookedDetails

Create a function ufn\_BookedDetails to get the booking details based on the BookingId

**Input Parameter:**

* BookingId

**Functionality:**

* Fetch the details of the ticket purchased based on the BookingId

**Return Value:**

A table containing following fields:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **BookingId** | **CustName** | **FlightName** | **Source** | **Destination** | **BookingDate** | **NoOfTickets** | **TotalAmt** |

 Assessment Rubric

|  |  |
| --- | --- |
| **Component** | **Marks** |
| Table creation and insertion of data | 10 |
| Stored Procedure | 10 |
| Function to fetch booking details | 10 |
| Exception Handling | 10 |
| Best Practices | 10 |