

# DATABASE STRUCTURE FOR CASE STUDY - ONLINE HOTEL MANAGEMENT SYSTEM

Role Name	Functionality
Owner	All CRUD for Staff, Sets rates, View Reports, Backup
Manager	Staff, Inventory
Receptionist	Reservation, Guest, Room, Bill(Receipt)

## Stake Holder - Owner

## DATABASE TABLES

Guest		
Id	int	PK, Identity(1,1)
Name	nvarchar(255)	
Email	nvarchar(100)	Unique
MobileNo	varchar(10)	
Address	nvarchar(255)	
Gender	nvarchar(10)	
Pincode	int(6)	
IDProof	bool	
numberOfAdults	int	
numberOfChildren	int	

Reservation		
Id	int	PK, Identity(200,1)
GuestId	int	FK
UserId	int	FK
RoomId	int	FK
CheckIn	datetime	
CheckOut	datetime	
BookingTime	datetime	
noOfNights	int	

Room		
Id	int	PK
RoomTypeId	int	FK
isAvailable	bool	

RoomType		
Id	int	PK
Type	varchar(20)	
RoomRate	decimal	

Bill		
Id	int	PK
PaymentMode	varchar(20)	
ReservationId	int	FK
serviceCount	int	FK
TotalPrice	decimal(16,2)	
paymentTime	datetime	

Services		
Id	int	PK
Name	varchar(100)	
Price	decimal(16,2)	

Role = Receptionist Receptionist can make reservations for the guest where she will add guest details.  
One guest can have one or many reservations, Reservation can be of one room and one room type.  
While making reservation will add services for each reservation and then bill will be generated accordingly.

User		
Id	int	PK, Identity(300,1)
Password	nvarchar(255)	
RoleId	int	FK
StaffId	int	FK
Email	nvarchar(50)	Unique

Role		
Id	int	PK
RoleName	varchar(10)	

Staff		
Id	int	PK, Identity(100,1)
DepartmentId	int	FK
FirstName	varchar(100)	
LastName	varchar(100)	
Gender	varchar(10)	
DOB	date	
DOJ	date	
Address	varchar(255)	
Pincode	int(6)	
Salary	decimal(8,2)	
MobileNumber	varchar(10)	
Email	nvarchar(50)	Unique

Department		
Id	int	PK, Identity(1,1)
Name	varchar(30)	
StaffId(manager)	int	FK

Role = Owner Owner can have access to functionalities of user and department.  
One User has only one role  
One Department can have many staff but one staff can have only one Department

Role = Manager Manager can manage room, staff and inventory details  
One category can have many items

Inventory		
Id	int	PK, Identity(1,1)
Item	varchar(100)	
CategoryId	int	FK
Quantity	int	
UnitPrice	decimal	
isStockAvailable	bool	

Category		
Id	int	PK, Identity(1,1)
Name	varchar(20)	