DATABASE STRUCTURE FOR CASE STUDY - ONLINE HOTEL MANAGEMENT SYSTEM

Stake Holder - Owner

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

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	blob	
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)	

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

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)	