

Table Designs

User Table

Column Name	Data Type	Constraints
user_id	INT	PRIMARY KEY, AUTO_INCREMENT
name	VARCHAR(100)	NOT NULL
email	VARCHAR(100)	UNIQUE, NOT NULL
phone_number	VARCHAR(15)	NOT NULL
address	TEXT	
date_of_birth	DATE	
preferences	TEXT	
feedback	TEXT	

Reservations Table

Column Name	Data Type	Constraints
reservation_id	INT	PRIMARY KEY, AUTO_INCREMENT
user_id	INT	FOREIGN KEY (user)
room_id	INT	FOREIGN KEY (Rooms)
check_in_date	DATE	NOT NULL
check_out_date	DATE	NOT NULL
booking_date	DATE	NOT NULL
status	VARCHAR(20)	NOT NULL
total_amount	DECIMAL(10, 2)	NOT NULL

Rooms Table

Column Name	Data Type	Constraints
room_id	INT	PRIMARY KEY, AUTO_INCREMENT
room_number	VARCHAR(10)	UNIQUE, NOT NULL
room_type	VARCHAR(50)	NOT NULL
status	VARCHAR(20)	NOT NULL
rate_per_night	DECIMAL(10, 2)	NOT NULL
maintenance_schedule	TEXT	
description	TEXT	

Billing Table

Column Name	Data Type	Constraints
billing_id	INT	PRIMARY KEY, AUTO_INCREMENT
reservation_id	INT	FOREIGN KEY (Reservations)
invoice_number	VARCHAR(50)	UNIQUE, NOT NULL
billing_date	DATE	NOT NULL
amount	DECIMAL(10, 2)	NOT NULL
payment_method	VARCHAR(20)	NOT NULL
payment_status	VARCHAR(20)	NOT NULL

Inventory Table

Column Name	Data Type	Constraints
inventory_id	INT	PRIMARY KEY, AUTO_INCREMENT
item_name	VARCHAR(100)	NOT NULL
quantity	INT	NOT NULL
reorder_level	INT	NOT NULL
supplier	VARCHAR(100)	NOT NULL
last_order_date	DATE	
cost_per_unit	DECIMAL(10, 2)	NOT NULL

Housekeeping Table

Column Name	Data Type	Constraints
housekeeping_id	INT	PRIMARY KEY, AUTO_INCREMENT
room_id	INT	FOREIGN KEY (Rooms)
task_description	TEXT	NOT NULL
task_date	DATE	NOT NULL
status	VARCHAR(20)	NOT NULL
housekeeping_staff_id	INT	FOREIGN KEY (Staff)

Staff Table

Column Name	Data Type	Constraints
staff_id	INT	PRIMARY KEY, AUTO_INCREMENT
first_name	VARCHAR(50)	NOT NULL
last_name	VARCHAR(50)	NOT NULL
role	VARCHAR(50)	NOT NULL
email	VARCHAR(100)	UNIQUE, NOT NULL
password	VARCHAR(50)	NOT NULL
Profile picture	VARCHAR(255)	
phone_number	VARCHAR(15)	NOT NULL
address	TEXT	
date_of_birth	DATE	
salary	DECIMAL(10, 2)	NOT NULL

Maintenance Table

Column Name	Data Type	Constraints
maintenance_id	INT	PRIMARY KEY, AUTO_INCREMENT
room_id	INT	FOREIGN KEY (Rooms)
maintenance_issue	TEXT	NOT NULL
reported_date	DATE	NOT NULL
resolution_date	DATE	
status	VARCHAR(20)	NOT NULL
maintenance_staff_id	INT	FOREIGN KEY (Staff)

LeaveApplication Table

Column Name	Data Type	Constraints
leave_id	INT	PRIMARY KEY, AUTO_INCREMENT
staff_id	INT	FOREIGN KEY (Staff)
leaveType	VARCHAR(20)	NOT NULL
startDate	DATE	NOT NULL
endDate	DATE	NOT NULL
reason	VARCHAR(255)	
appliedon	DATE	NOT NULL
approvedon	DATE	NOT NULL
status	VARCHAR(20)	NOT NULL