A

Project Report

On

"Hotel Management System"

BY

Muhammad Faizan Khan (BScsF20-10)

Institute

"Qarshi University"

Submitted

To

"Sir Asad Rehman"

Acknowledgement

First and foremost, I would like to thank our Data Base Teacher Sir Asad Rehman who guided us in doing these projects. He provided us with invaluable advice and helped us in difficult periods. His motivation and help contributed tremendously to the successful completion of the project.

Hotel Management System

My topic is the Hotel management system database project so now it is more clear that here I am talking about managing the database of a hotel. It can be customer record, employee record, transactions record, check-in, check-out, customer booking and so many things which are related to the database.

Tables

Tables which I added in Hotel Management System Database project.

Customer Record Table

In the customer record table, the first column comes with the customer id that is a unique id, by making these types of id's recognizing the customer becomes very easy to like just enter the customer id and you will get all the history of the customer.In this table, all the details of the customer like Name, gender, contact number, address, and other important information.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	cus_ID 🔑	int(11)			No	None		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
2	Gender	varchar(11)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
3	cus_Fname	varchar(25)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
4	cus_Lname	varchar(25)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
5	Address	varchar(255)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
6	Contact_Number	int(50)			No	None			🖉 Change	⊖ Drop	More
7	EmailAddress	varchar(20)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More

Rooms Record/Detail Table

Room Record table will store the record of rooms like room Id, Room No., the category of the room that can be Deluxe/Normal or any other category which you can add, you can add price and description of the rooms, like if the room is Deluxe then which type of facility you are giving.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Room_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Class_ID 🔑	int(30)			No	None			Change	Drop	More
3	Price	int(30)			No	None			Change	Drop	More
4	Discription	text	utf8mb4_general_ci		No	None			Change	Drop	More
5	Status	varchar(11)	utf8mb4_general_ci		No	None			Change	Drop	More

Customer Reservation

Customer reservations store the information contains Reservation_ID, Customer_ID, Room_ID, Resrvation_Date, Date_In and Date_Out, Days Range and status.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Reservation_ID 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	Customer_ID 🔑	int(11)			No	None			Change	Drop	More
3	Room_ID 🔑	int(11)			No	None			Change	Drop	More
4	Reservation_Date	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change	Drop	More
5	Date_in	datetime			No	None			Change	Drop	More
6	Date_out	datetime			No	None			Change	Drop	More
7	Days_Range	text	utf8mb4_general_ci		No	None			Change	Drop	More
8	Status	varchar(11)	utf8mb4_general_ci		No	None			Change	Drop	More

Employee Table

Employee table contain Employee_ID, First_name, Last_name, Gender, Job_Department, EmpType, Address, contact_no,username, Password, Status.

| #	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Employee_ID 🔑	int(11)			No	None		AUTO_INCREMENT	✏ Change	⊖ Drop	More
2	First_name	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
3	Last_name	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
4	Gender	varchar(11)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
5	Job_Department	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
6	EmplType	varchar(11)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
7	Address	text	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
8	Contact_No	int(30)			No	None			✏ Change	⊖ Drop	More
9	Username	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
10	Password	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
11	Status	varchar(11)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More

Items Table

Items table contain Item_ID, Item_Name, Item_Cost, Status

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	Item_ID 🔑	int(11)			No	None		AUTO_INCREMENT	✏ Change	⊖ Drop	More
2	Item_Name	varchar(30)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
3	Item_Cost	text	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
4	Status	varchar(20)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More

Order Table

Order table contain Order_ID, Item_ID, Order_Date, Quantity, Cost, Status

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Order_ID 🔑	int(11)			No	None		AUTO_INCREMENT	✎ Change	⊖ Drop	More
☐	2	Item_ID 🔑	int(11)			No	None			✎ Change	⊖ Drop	More
☐	3	Order_Date	datetime			No	None			✎ Change	⊖ Drop	More
☐	4	Quantity	text	utf8mb4_general_ci		No	None			✎ Change	⊖ Drop	More
☐	5	Cost	double			No	None			✎ Change	⊖ Drop	More
☐	6	Status	varchar(11)	utf8mb4_general_ci		No	None			✎ Change	⊖ Drop	More

Payment Table

Payment table contain Payment_ID, Customer_ID, Type, TotalAmunt, Payment_Date, Status

|	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Payment_ID 🔑	int(11)			No	None		AUTO_INCREMENT	✎ Change	⊖ Drop	More
☐	2	Customer_ID 🔑	int(11)			No	None			✎ Change	⊖ Drop	More
☐	3	Type	varchar(55)	utf8mb4_general_ci		No	None			✎ Change	⊖ Drop	More
☐	4	TotalAmunt	float			No	None			✎ Change	⊖ Drop	More
☐	5	Payment_Date	datetime			No	None			✎ Change	⊖ Drop	More
☐	6	Status	varchar(11)	utf8mb4_general_ci		No	None			✎ Change	⊖ Drop	More

Report Table

Repoot table contain Report_ID, Transaction_ID, Name, Type, Status

|	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Report_ID 🔑	int(12)			No	None		AUTO_INCREMENT	✏ Change	⊖ Drop	More
☐	2	Transaction_ID 🔑	int(12)			No	None			✏ Change	⊖ Drop	More
☐	3	Name	varchar(60)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
☐	4	Type	varchar(60)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
☐	5	Status	varchar(11)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More

Room Table

Room_ID, Class_ID, Price, Discription, Status

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Room_ID 🔑	int(11)			No	None		AUTO_INCREMENT	✏ Change	⊖ Drop	More
☐	2	Class_ID 🔑	int(30)			No	None			✏ Change	⊖ Drop	More
☐	3	Price	int(30)			No	None			✏ Change	⊖ Drop	More
☐	4	Discription	text	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More
☐	5	Status	varchar(11)	utf8mb4_general_ci		No	None			✏ Change	⊖ Drop	More

Room Class Table

Room class table contain Class_ID, Name, Price, Status, Description

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Class_ID 🔑	int(11)			No	None		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
☐	2	Name	varchar(50)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	3	Price	text	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	4	Status	varchar(11)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	5	Description	varchar(200)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More

Transaction ID Table

Transaction ID table contain Transaction_ID, Transaction_Name, Customer_ID, Reservation_ID, Transaction_Date, Status

|	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action		
☐	1	Transaction_ID 🔑	int(11)			No	None		AUTO_INCREMENT	🖉 Change	⊖ Drop	More
☐	2	Transaction_Name	varchar(30)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More
☐	3	Customer_ID 🔑	int(11)			No	None			🖉 Change	⊖ Drop	More
☐	4	Reservation_ID 🔑	int(11)			No	None			🖉 Change	⊖ Drop	More
☐	5	Transaction_Date	datetime			No	None			🖉 Change	⊖ Drop	More
☐	6	Status	varchar(11)	utf8mb4_general_ci		No	None			🖉 Change	⊖ Drop	More

Conclusion

We have made a data base of a hotel management system in which we store information about the customers, employees working in the hotel, items details, order details, payment details, room availability and room class, check in and check out, transactions and reports generated after payment.