

DBMS Lab Assignment

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19BCS052

TOPIC: - ER Diagram of Hotel Database

GROUP: - 2

1)Customer Information

	Column Name	Data Type	Allow Nulls
🔑	Name	nchar(10)	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	[Phone Number]	int	<input type="checkbox"/>
	City	nchar(10)	<input type="checkbox"/>
	State	nchar(10)	<input type="checkbox"/>
	[Zip Code]	nchar(10)	<input type="checkbox"/>
	[Reservation Number (if any)]	int	<input type="checkbox"/>
	Email	nvarchar(50)	<input type="checkbox"/>

2)Services available

	Column Name	Data Type	Allow Nulls
🔑	ServiceID	int	<input type="checkbox"/>
	[Service Name]	nchar(10)	<input type="checkbox"/>
	[Service Charge]	int	<input type="checkbox"/>
	[Reservation Number]	int	<input type="checkbox"/>

3)Room details

	Column Name	Data Type	Allow Nulls
🔑	[Room Number]	int	<input type="checkbox"/>
	[Room Type]	varchar(50)	<input type="checkbox"/>
	[Number of beds]	int	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
▶	[Extra Matress]	varchar(50)	<input type="checkbox"/>

4)Customer Address

	Column Name	Data Type	Allow Nulls
🔑	CustomerID	int	<input type="checkbox"/>
	[House Number]	nvarchar(50)	<input type="checkbox"/>
	Street	nvarchar(50)	<input type="checkbox"/>
	City	nchar(10)	<input type="checkbox"/>
	State	nchar(10)	<input type="checkbox"/>
	[Zip-Code]	int	<input type="checkbox"/>

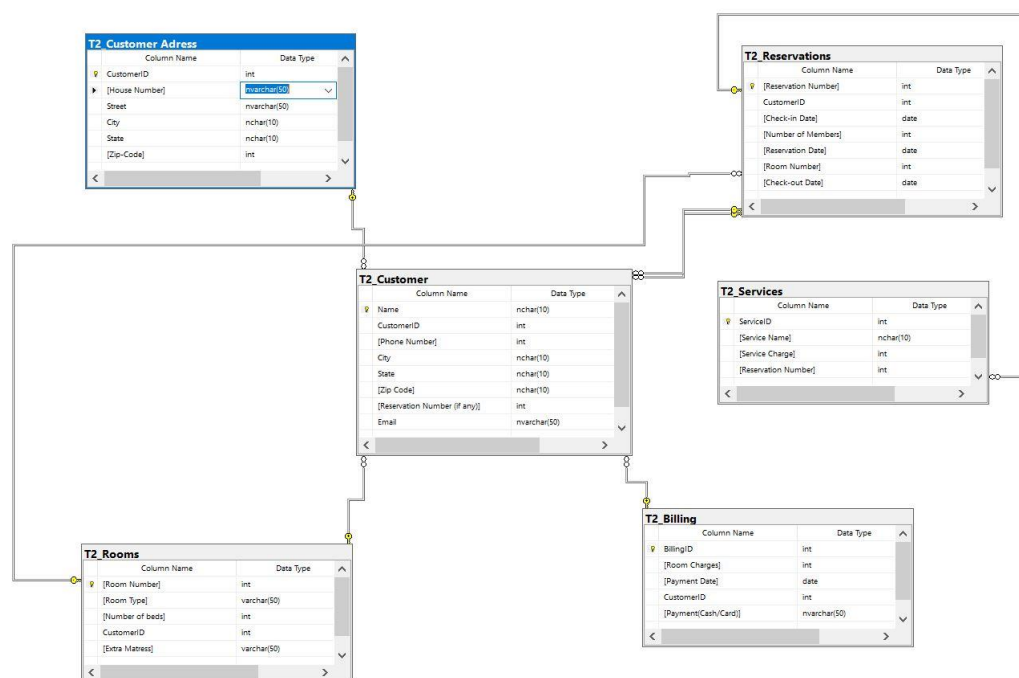
5)Billing Details

	Column Name	Data Type	Allow Nulls
🔑	BillingID	int	<input type="checkbox"/>
	[Room Charges]	int	<input type="checkbox"/>
	[Payment Date]	date	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	[Payment(Cash/Card)]	nvarchar(50)	<input type="checkbox"/>

6)Reservations (if any)

	Column Name	Data Type	Allow Nulls
🔑	[Reservation Number]	int	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
	[Check-in Date]	date	<input type="checkbox"/>
	[Number of Members]	int	<input type="checkbox"/>
	[Reservation Date]	date	<input type="checkbox"/>
	[Room Number]	int	<input type="checkbox"/>
	[Check-out Date]	date	<input type="checkbox"/>

ER Diagram of Hotel Database



- In the ER diagram, the Customer Address is a weak entity because it can't be uniquely identified with its own attributes.

- There is no separate primary key for the Customer Address entity. The CustomerID key acts as primary key and foreign key for the Customer Address entity.
- So, the entity Customer Address is the weak entity and the relation it shares with the Customer entity is the weak rela

Table Name	Primary key	Foreign key
T2_Rooms	Room number	Customer ID
T2_Customer	Customer ID	Reservation number
T2_Reservation	Reservation number	Room number, Customer ID
T2_Services	Service ID	Reservation number
T2_Billing	Billing #	Customer ID
T2_Customer Address	Customer ID	Customer ID