PROJECT REPORT ON

ON

HOTEL MANAGEMENT SYSTEM

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OBJECTIVE

A Hotel Management system fulfils all the requirements of maintaining a hotel chain's data with multiple hotels.

The main objective of the entire project is to maintain the records of the hotels under a hotel chain, rooms, customers, employees and bookings done by customers in such a way that relationships between all the tables in maintained and the data is normalized to 3rd normal form.

In Addition to that, it should be able to provide answers to the basic queries such as number of rooms available on a given time, booking details of the customers, location of the hotel and service provided by them and details of the employees.

The following tables have been included to serve the purpose:

1. Hotel_Chain
2. Hotels
3. Rooms
4. Hotel_Services
5. Room_Discounts
6. Customers
7. Employees
8. Booking

DETAILS OF THE TABLES

The following are the tables included in the project. Each table is explained briefly with the relationships it has with the other tables in the database.

1. Hotel_Chain

Field Name	Datatype
Hotel_Chain_ID	Integer
Hotel_Chain_Name	Varchar
No_Of_Properties	Integer
Rank	Integer
Office	Varchar
Year_Established	Integer

2. Hotel

Field Name	Datatype
Hotel__ID	Integer
Hotel_Chain_Name	Varchar
Hotel_Name	Integer
Contact_Number	Integer
Address	Varchar
City	Integer
State	Varchar
Zip_Code	Integer
Country	Varchar
URL	Varchar
No_Of_Rooms	Integer
No_OF_Employees	Integer
Type	Varchar

3. Rooms

Field Name	Datatype
Room_ID	Integer
Hotel_ID	Integer
Room_No	Integer
Type	Varchar
Room_Available	Varchar
Room_Price	Integer
Date	DateTime

4.Rooms_Discount

Field Name	Datatype
Room_Discount_ID	Integer
Room_ID	Integer
Room_Disc_Jan_May	Integer
Room_Disc_June_Sept	Integer
Room_Disc_Oct_Dec	Integer

4. Employees

Field Name	Datatype
Employee_ID	Integer
Hotel_ID	Varchar
Name	Varchar
Address	Varchar
Service_ID	Integer
Contact_Number	Integer

5. Booking Detail

Field Name	Datatype
Reservation_ID	Integer
Hotel_ID	Integer
Customer_ID	Integer
Room_ID	Integer
Check_In	DateTime
Check_Out	DateTime
Varchar	

6. Customers

Field Name	Datatype
Customer_ID	Integer
Customer_Address	Varchar
Customer_Name	Varchar
City	Varchar
State	Varchar
Pincode	Varchar

7. Hotel_Services

Field Name	Datatype
Hotel_Chain_ID	Integer
Hotel_Chain_Name	Varchar
No_Of_Properties	Integer
Rank	Integer
Office	Varchar
Year_Established	Integer

ENTITY RELATIONSHIP DIAGRAM

An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.

The following is the ERD Diagram for the Hotel Management System.
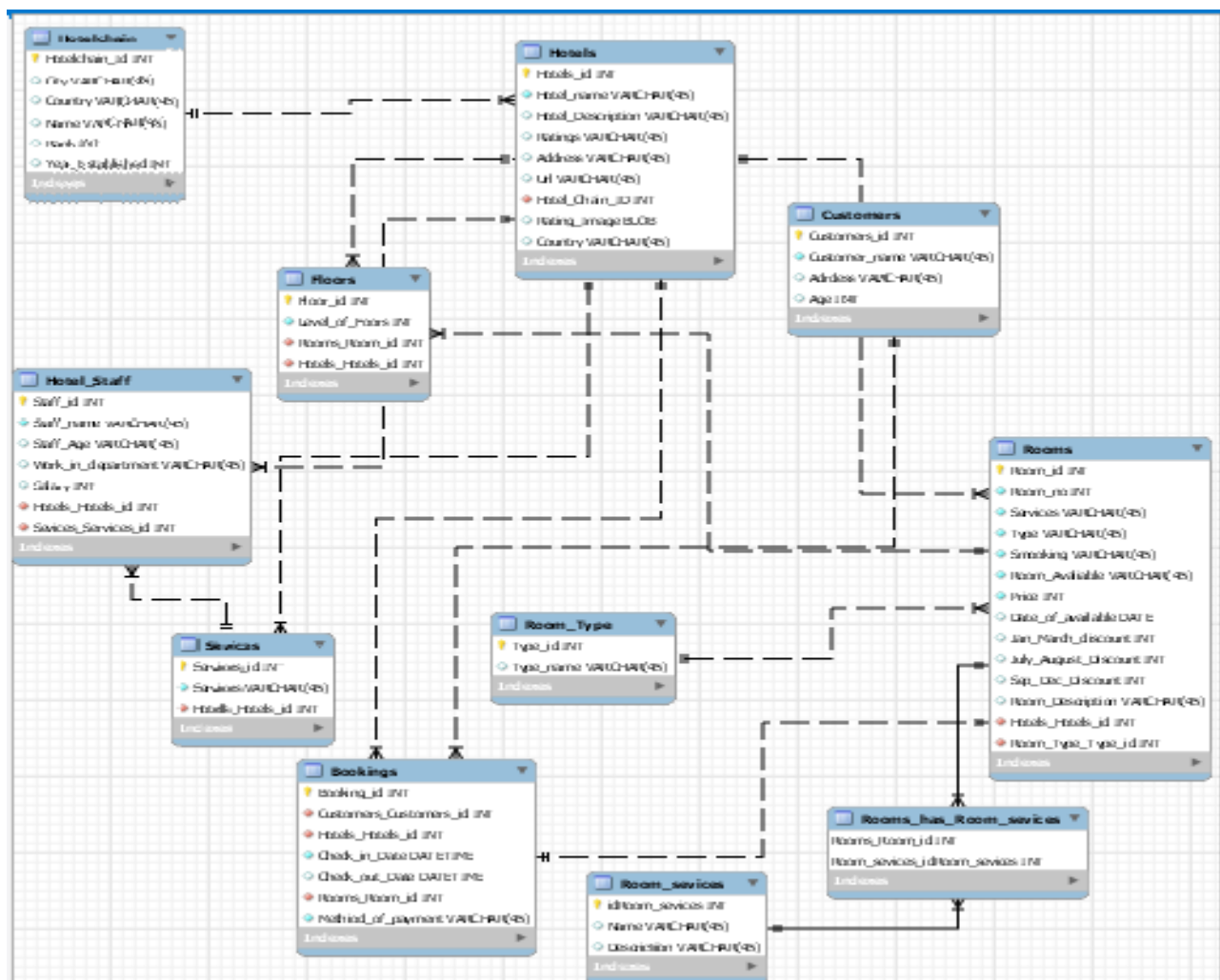
SCOPE OF IMPROVEMENT

We can improve the hotel management system by adding tables to manage other information about hotel such as extending the employees tables based on their position providing more specific information about the services provided by the employees. Also, we can manage quality and material management data of hotel.