Hotel Management System

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<https://github.com/vmothe/Project.git>

March 28, 2022

**Project Part 2:**

**Relational Database Design**

Here are the hotel management system features which will be basis for creation of the database tables in the database.

**Admin management**

Admin will be responsible for adding, updating and deleting data.

**Customer management**

The records of customers including reservation timeline, reservation data and rooms and its types for example, deluxe, supreme etc. will be stored in this management system.

**Manager management**

The manager will be responsible for handling all the services related to hotel including customer guidance, staff management and hotel management. the data related to manager will be stored in the database.

**Reservation management**

The data related to reservation along with time and charges will be stored in the database.

**Receptionist management**

The receptionist will be responsible for handling customers, so the data of receptionist including name, address, contact will be stored.

After analyzing the data, I came to conclusion that my business will have following five entities.

1. Admin - it will store data related to admin like ID, name, gender, address, contact number and joining date.
2. Customer – it will store data related to customer who is reserving room in hotel. The table will store customer ID, name, gender, address, contact number.
3. Manager - it will store data related to manager like ID, name, gender, address, contact number and joining date.
4. Reservation – it will store information related to reservation. It will include reservation ID, customer ID which will be foreign key from customer table, room id from room table, reservation date, date\_in, date\_out.
5. Room – it will record information related to room being reserved by customer. It will store information about price of room and description of room. It will store information about class level that whether it is deluxe or supreme level. Also, floor of room will also be stored.
6. Receptionist - it will store data related to receptionist like ID, name, gender, address, contact number, salary and joining date.

**Entities and data types**

**Admin**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Admin\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Joining\_date | date |

**Customer**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Customer\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Contact\_no | Integer |

**Manager**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Manager\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Joining\_date | date |

**Room**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Room\_id | Integer |
| Price | Float |
| Description | varChar[255] |
| Class\_level | varChar[50] |
| Floor\_no | Integer |

**Reservation**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Reservation\_id | Integer |
| Customer\_id | Integer |
| Room\_id | Integer |
| Reservation\_date | date |
| Date\_in | date |
| Date\_out | date |

**Receptionist**

|  |  |
| --- | --- |
| **Fields** | **Data types** |
| Receptionist\_id | Integer |
| Name | varChar[20] |
| Gender | varChar[20] |
| Address | varChar[50] |
| Joining\_date | date |