**Hotel Booking Management**

**Database purpose**

The purpose of this database is to maintain the data used to generate and support hotel booking management.

**Business Rules**

Each city may have zero or many hotels.

Each hotel must have one or many rooms.

Each hotel can have zero or many amenities.

Each customer can have zero or many bookings.

Only one coupon can be applied during hotel booking.

Each room may have different prices based on different categories.

Room prices may vary based on the season.

A hotel can have one or many ratings given by the customers.

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| **Entity Name** | **Why Entity Included** | **How Entity is related to other Entities** |
| List\_of\_cities | One of the primary purpose of the database is to collect the data regarding the hotel in each city. Here each city hotel is listed, and this entity helps in further booking process. This entity has the details of the city like the state and country in which it is located. | This entity is related to the List\_Of\_Hotels with one or many relationships. The City\_ID is used as foreign key in List\_Of\_Hotels. |
| List\_Of\_Hotels | The primary purpose of this entity is to store the details of the hotel such as name, Address and other information. | This has one to one relationship with List\_Of\_Cities as this table has the details of the city in which the hotel is located and it has zero or many relationship with Hotel\_Amenities to store the list of amenities of hotels, like wise it has one or many relationship with Hotel\_Rooms and same relationship with Hotel\_Rating. |
| Hotel\_Amenities | This table stores the details of amenities available in hotels. | It has one to one relationship with list\_Of\_Hotels and Amenities tables as it stores the details of amenities of each hotel. |
| Amenities | This table stores the list of amenities available | It has zero or many relationship with Hotel\_Amenities table as it stores the details of amenities available in hotels. |
| Hotel\_Rooms | This table stores the details of the rooms available in different hotels. | It has one and only one relationship with List\_Of\_Hotels to show which hotel does the room belongs to. |
| Room\_Selection | This table stores the details of the room type which is selected and the no of rooms selected. | It has one to one relationship with Hotel\_Booking table as the booking needs the number of rooms selected etc. and it has one or many relationship with Room\_Types w |