



#### Supplementary Notes:

-It is assumed that a room can be unoccupied.

-It is assumed that a guest doesn't have to have a room currently reserved to have their information in the system.

-It is assumed that display names are unique for reviews.

-Rooms are uniquely identified by the hotel they belong to and their room number.

-RoomStatus holds information regarding the condition of the room. For example, if the status is "Cleaning Needed", that means that the room is unoccupied but needs to be cleaned before the next guests arrive.

-It is assumed that a booking can be made by one and only one guest (no co-bookings between guests).

-It is assumed an employee's roles can overlap. For example, an employee could work as maintenance one day and a cleaner the next.

-It is assumed that an employee must work at at least 1 hotel to be considered an employee, but that they can work at many different hotels.

-It is assumed that a hotel must have at least one employee working at it.

-It is assumed that a guest doesn't have to participate in the reward program.

-A guest's ID type is the kind of government identification used and IDNum is the government number assigned with that identification.

-Room has GuestID for the paying member of the room while current occupant name is anyone else staying in the room with the guest.

-Former occupant name keeps track of all occupants of the room in the past, could set limit to how far back you keep this record.

-The bill contains the current tab of the guest during a stay while the guest's billing history is all of their previous tabs combined which is derived from the bil.

-Guests can have multiple discount categories like military and government though the most beneficial discount might be the only one used.

-RewardsProgram is added for our product as an incentive for guests to continue booking.

-A room may only be reserved by one guest at a time.

-A hotel may belong to a hotel chain, but a hotel chain must have at least one hotel belonging to it to be considered a chain.

-Room service for a hotel is uniquely identified by its phone number, which is separate from the hotel's number.

-Room service must be fulfilled/completed by an employee