**DATABASE SYSTEM**

HOTEL BOOKING SYSTEM

**INTERPRETATION:**

 A hotel reservation system is software application that allows guests to book directly with hotel online, with no intermediate necessary. It enables guests to schedule dates and length of stay, room selection, extras and, payment all in one place.

**ENTITIES:**

(1)Customer (2) Admin/Employee (3) Room

(4)Room Type (5) Booking (6) Hotel

(7) Invoice

**ATTRIBUTES:**

* Customer (Customer ID, Cus. Name, Phone No, Address, City, Country)
* Admin/Employee (Employee ID, Employee Name, Address, Salary)
* Room (Room Type, Room No, Hotel Code)
* Room Type (Room Type, Room Price)
* Hotel (Hotel Code, Hotel Name, Hotel Address, City, No of Rooms, Phone No)
* Booking (Booking ID, Arrival Date, Departure Date, Room No, Guest ID)
* Invoice (Invoice No, Booking ID, Customer ID, Room Charges, Room Service, Payment Date)

**RELATIONSHIPS:**

* Each Entity contains Primary Key and Foreign Key.
* A Hotel is managed by many admins/employees. Therefore, cardinality is 1:M.
* A Room is of different types. Therefore, cardinality is 1:M.
* A Customer may reserves room many times. Therefore, cardinality is 1:M.
* A Room is reserved many times. Therefore, cardinality is 1:M.
* Many Invoices may be generated for one reservation. Therefore, cardinality is M:1.
* A Hotel contains many rooms. Therefore, cardinality is 1:M.

**ENTITY RELATIONSHIP DIAGRAM:**

