

Night Gaming Café Web Application Online Booking Database

Mission Statement

The purpose of the Online Booking database is to gather information from the members of the café that makes a reservation for a room or lounge seating online from the web application on a daily basis as well as to make the reservation information available to the staff of the café so they can provide an appropriate live service according to the reservation day.

Mission Objective

Provide a list of reservations for VIP room.
Provide a list of reservations for lounge gaming.
Match VIP room with reservation number.
Match lounge seating with reservation number.
Members can request for a reservation.
Members can view their current membership card balance.

Entity Relationship Model

Entity Types:

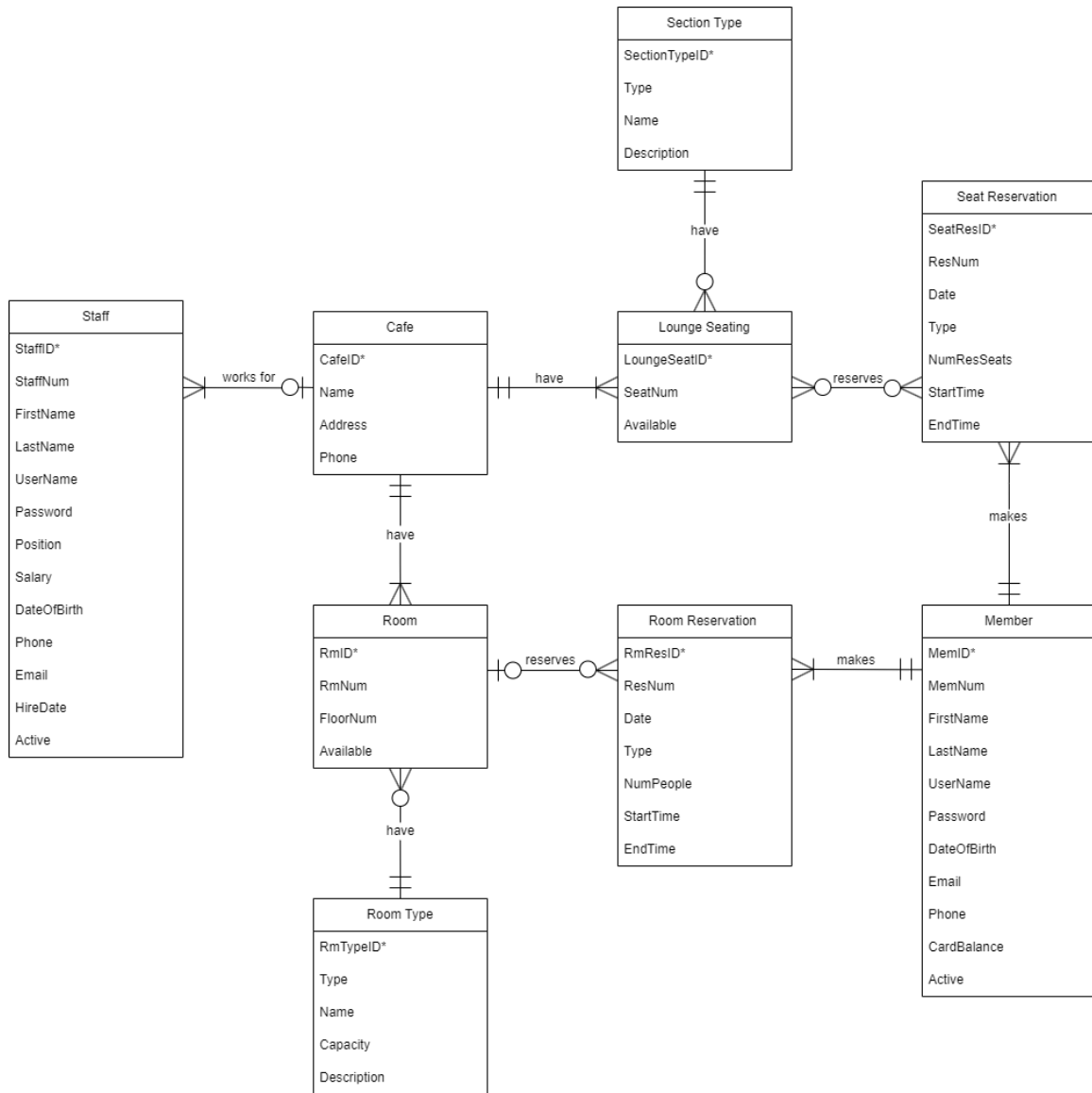
- Member
- Room Reservation
- Room
- Room Type
- Seat Reservation
- Lounge Seating
- Section Type
- Cafe
- Staff

Relationship between entities:

- A **member** must make one or more **room reservations**; A **room reservation** must have one and only one **member**.
- A **member** must make one or more **seat reservations**; A **seat reservation** must have one and only one **member**.
- A **room reservation** may reserve one and only one **rooms**; A **room** may be reserved by one or more **room reservations**.
- A **seat reservation** may reserve one or more **lounge seating**; A **lounge seating** may be reserved by one or more **seat reservations**.
- A **room** must have one and only one **room types**; A **room type** may belong to one or more **rooms**.

- A **lounge seating** must have one and only one **section types**; A **section type** may belong to one or more **lounge seating**.
- A **café** must have one or more **rooms**; A **room** must belongs to one and only one café.
- A **café** must have one or more **lounge seating**; A **lounge seating** must belongs to one and only one café.
- A **staff** may works for one and only one **café**; A **café** must have one or more **staffs**.

Entity Relationship Diagram



Relational Model

- Member (MemID, MemNum, FirstName, LastName, UserName, Password, DateOfBirth, Email, Phone, CardBalance, Active)
- Room Reservation (RmResID, ResNum, Date, Type, NumPeople, StartTime, EndTime, MemID(fk), RmID(fk))
- Room (RmID, RmNum, FloorNum, Available, RmTypeID(fk), CafeID(fk))
- Room Type (RmTypeID, Type, Name, Capacity, Description)
- Seat Reservation (SeatResID, ResNum, Date, Type, NumResSeats, StartTime, EndTime, MemID(fk), LoungeSeatID(fk))
- Lounge Seating (LoungeSeatID, SeatNum, Available, SectionTypeID(fk), CafeID(fk))
- Section Type (SectionTypeID, Type, Name, Description)
- Café (CafeID, Name, Address, Phone)
- Staff (StaffID, StaffNum, FirstName, LastName, UserName, Password, Position, Salary, DateOfBirth, Phone, Email, HireDate, Active, CafeID(fk))