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CS 328
25 Feb 2025
Database Business Rules

Cozy Duck Inn

Scenario:

The Cozy Duck Inn is a beautiful hotel located in an idyllic suburban area. It is on the outskirts of a city, and balances comfort and amenities with price. The Cozy Duck takes in travelers from all over the world, who stay in one of the many rooms in the hotel. The heart of the hotel is the duck pond located on property, with several cute ducks, geese, and swans that are cared for by the staff.

Business Rules:

- Due to municipal fire codes, each room has an occupancy limit that varies by room type.
 There is a general "two heads to a bed" occupancy rule, but pull-out couches and room size may allow for additional guests. Guests who exceed the occupancy limit must rent additional rooms to fit the number of occupants.
 - a. Standard one-bed bedrooms are limited to two guests.
 - b. One-bed suite and resort bedrooms are limited to three guests.
 - c. Standard and suite two-bed bedrooms are limited to four guests.
 - d. Two-bed resort bedrooms are limited to five guests.
 - e. Three-bed standard and suite bedrooms are limited to six guests.
 - f. Three-bed resort bedrooms are limited to 7 guests.
 - g. Four-bed resort bedrooms are limited to 8 guests.
- 2. No smoking and no pets are allowed in the hotel or duck pond area.
- 3. A reservation may only be associated with one guest account, but one guest account may book multiple reservations.
- 4. Multiple employees may be logged on working on multiple tasks.
- 5. A task may be defined as a work order, room service, waterfowl care, or other (such as laundry or breakfast).
- 6. Multiple employees may manage one reservation.
- Work orders may be outsourced to contractors or repair businesses, this must be recorded in the work order.

- 8. One reservation may have multiple transactions associated with it, but a transaction can only be associated with one reservation. Transactions may pay for some or all of a reservation's stay cost.
- 9. Guest accounts must have an email and phone number associated with them.
- 10. A guest account cannot exist in the system without a reservation (reservation status doesn't matter), and a reservation *must* have a guest account associated with it.
- 11. One room cannot be booked by multiple reservations at the same time, but a room may be associated with multiple reservations over time.