

Hospital Database

The designed and implemented database should cover the data storage needs of a hospital for its following functions:

- Keeping records of its patients.
- Tracking and managing appointments.
- Maintaining staff records.
- Tracking treatments done for patients.
- Managing laboratory test results.
- Tracking medications prescribed.
- Billing and insurance claims.

Dormitory Database

The designed and implemented database should cover the requirements of a dormitory for the following functions:

- Maintaining records of students residing in the dormitory.
- Managing room assignments for students.
- Keeping track of dormitory staff.
- Tracking visitors.
- Scheduling and logging maintenance and cleaning tasks.
- Tracking and managing dormitory supplies.
- Managing dining hall operations.
- Handling billing and payments.

Car Rental System Database

The designed and implemented database should cover the requirements of a car rental company for the following requirements:

- Maintain records of customers, including customer rental history.
- Store customer payment information securely.
- Manage a fleet of vehicles and their maintenance.
- Handle the rental process, generate rental agreements or contracts for each rental, record rental return dates.

- Maintain records of company staff, track staff schedules, work hours, and payroll information.
- Allow customers to make vehicle reservations, ensure that reserved vehicles are held for customers as per their reservation.
- Calculate rental charges, handle payment methods.

Hotel Management Database

The designed and implemented database should cover the data storage needs of a hotel. Please provide the following requirements:

- Maintain records of guests.
- Keep records of rooms and track room availability.
- Manage reservations and ensure that rooms are not double booked during overlapping reservation periods.
- Maintain staff records.
- Manage guest payments and bills.
- Track hotel supplies, such as toiletries and linens.
- Record guest dining reservations and orders.

Bus Reservation Database

The designed and implemented database should cover the data storage needs of a bus reservation company. Please provide the following requirements:

- Keep records of customers, including a history of reservations and travel.
- Manage a fleet of buses and their maintenance.
- Store information about bus routes.
- Handle scheduling of bus departures and arrivals for each route.
- Allow customers to make reservations, ensure seat availability, and prevent double bookings.
- Manage billing and payment records.
- Maintain employee records.