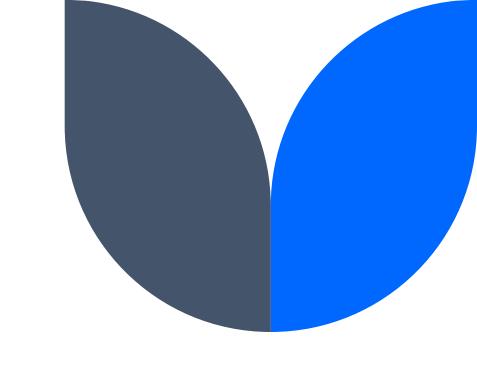
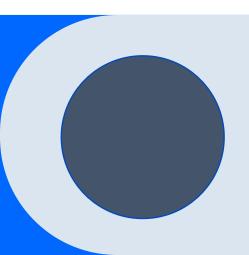


HFD





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The full team



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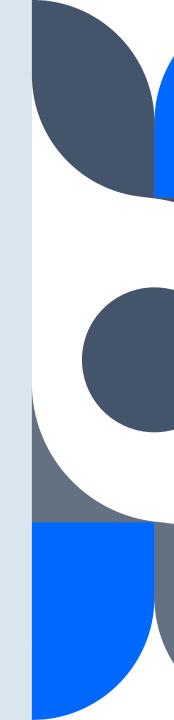
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Mahmoud Gomaa



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Problem

Our project is about a database of a Hotel For Disabled guests.

HFD DB



Hotels are for all.



Primary goal of the hotel

exceptional guest experience

Introduction

Welcome to the comprehensive HFD database which is tailored to meet the unique needs of a hotel catering to individuals with disabilities. This introduction outlines the essential features and information in our HFD database necessary to ensure an inclusive and accessible environment, enhancing the overall guest experience for individuals with diverse abilities. This comprehensive HFD database seamlessly manages various facets of hotel operations, including employee details across specialized departments such as medical, ensuring regular recording of guest health conditions; Additionally, Guests can provide valuable feedback to enhance overall service quality and satisfaction, and the database efficiently tracks dependents information, offers rooms with accessibility features enhancements, and organizes entertaining trips. Caregivers are integrated to assist guests; there's training for staff development; legal affairs for incident resolution; cleanliness and safety measures for a secure and pristine environment. The database also encompasses restaurant, stock, purchase management, and appointment scheduling for hiring, with a keen focus on maintenance, insurance coverage for employees and transportation logistics, offering an all-encompassing solution for an exceptional guest experience,

Guest & room

At the first I will talk about the guest. The guest has a first name, middle name and last name, SSN, gender, birthdate, phone number (many numbers), and we assign him an ID (PK) in the database. Because the guests are special, the hotel tracks their disability type so it can get him in the right room.

As I said in previous, every room has accessibility features enhancements for an exceptional guest experience. The hotel ensures that every single guest stays in the right room depending on his disability type. We also keep track of the availability of every room and the capacity. It also has an ID (PK). We also record the check-in, check-out date and the total price he will pay according to the duration he stayed. One guest stay (who makes the check-in) in one room.

Guest & dependent

Every guest may have many dependents, we record the dependent name, SSN (PK), gender, birthdate, phone number (maybe many numbers) and the relationship between them. Some guests may not have any dependent because the hotel provides an inclusive service, I will talk about it later.

Project 2024-2023

Entertainment trips

The hotel organizes entertainment trips for guests. Many guests can go on many trips on a specific date. Every trip has a place, type, duration, and id (PK).

To ensure an inclusive and accessible environment the other facilities and enhanced features do not stand alone without employees, departments, and others.

Departments

HFD database manages various facets of hotel operations, including employee details across specialized departments. HFD records the employees' first name, middle name, last name, SSN, gender, birthdate, phone number, address, id (PK), job type, working hours and salary. Many employees work for departments. Every department is managed by one employee. This employee heads many employees. Every department has a name and ID (PK).

Some departments have classified information, not just those who work in them. Such as medical, caregivers, cleanliness, and a lot. Some other departments have only those who work in them like security, reception, and Finance Department.

Medical

Medical has Doctors examine every guest in the hotel. HFD has regular recording of guest health conditions, medications he takes, the date of the examination and ID (PK) of that record. Every guest has many medical records, and every medical record has one guest.

Caregiver

Caregivers is the inclusive service. When guests do not have any dependent no problem the hotel offers caregivers. Every guest has one care giver who assists him. The caregiver has a unique id (PK), many skills such as (empathy, patience, communication, medical background, etc.).

Rating

Rating is a customer service has employees work in. Through rating the guests can provide valuable feedback and evaluation to enhance overall service quality and satisfaction. So HFD database records the evaluation of the guests and feedback if there any comment or any problem happened, and every record also has an ID and date of making the rate. every guest makes a rating. Every rating record has a guest who made it. It is not necessary that every guest makes the rating.

Cleanliness

For an exceptional guest's experience, the hotel always provides this service before the guest check-in the room and after the check-out and the time when the guests stay in the room it has a regular cleaning. This cleaning dates are recorded and has an ID in the database. Every room has many cleaning records, and every record has one room.

Training

The hotel provides training for staff development. Every training has name (PK), date (PK), type, duration, location. Many employees get many trainings. It is not a must that every employee takes training. To know how the training was beneficial for the employees they can rate the training they took.

Transportation department

Because the hotel provides trips the hotel has different Means of transport (buses, cars, private planes, etc.). HFD records this means plate number (PK), model, type, and capacity of it. HFD also records the employees who work in transportation.

Safety

For a secure and pristine environment from any incident for the special guests the hotel has safety measurements. In safety we track the incident records, date, location, and it has ID (PK), and we track the employees in this department.

Insurance

According to the labor law the hotel insures the workers with social insurance upon their appointment. The hotel also insures transportation against accidents. Every insurance has an id (PK), date, duration. Every employee has insurance, and every insurance has an employee (it is a must). The same applies with the transportation, every one means of transportation has one insurance (it is a must).

Restaurant

The hotel has many restaurants ,and also has many guests, so to organize them, HFD records every restaurant's capacity, location (on the beach, on the roof, etc.) and id (PK).

Legal affairs

The hotel has legal issues with third parties such as government agencies for example when insuring (workers or transportation, etc.) but it is not in the scope of HFD. Our scope is the employees who work in this department and lawsuit if exists. So, the hotel records the lawsuits between employees and guests for incident resolution. We record the id (PK), date, type of every lawsuit. Many employees and guests can make a lawsuit against each other. Of course, it's not a must.

Maintenance

The hotel has a keen focus on maintenance so that the hotel remains at the same level. We track the employees who work in this department and the maintenance record which has id (PK), date, type. The maintenance fixes rooms and transportation. One room has many records of maintenance. Every maintenance record has one room. The transportation is the same. Every transportation has many maintenance records, and every record has one transportation.

Appointment

As the hotel grows up the hotel is scheduling a schema for hiring employees. The appointment has the date (PK) when the hotel will appoint the employees and the job type of them, and the number of employees will be needed.

Purchase

The hotel always needs to buy many facilities. HFD records the name of the product is bought, id (PK) for this record, date of purchase, type, quantity, quality, price, supplier. For each purchase record there is a productive quality officer working in the quality department of the hotel who checks the products and states whether they are valid to use or not valid and if that then it will be returned. One employee who checks many products. The checking must be done. When the products are validated then they are stored in storage records. Every validated purchase record has a single storing record, and every storing record has a single purchase record. Notice that not all the purchases are stored because some are returned.

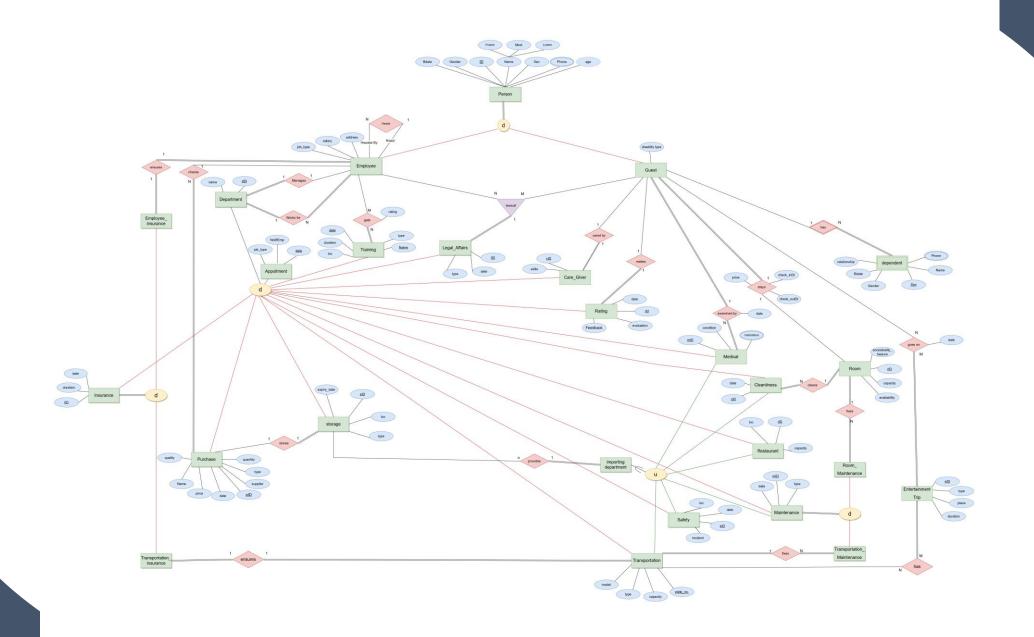
Storage

When the product is stored, it has a storing record in this record we track the id (PK) of it, expiring date, type of product, location the products are stored

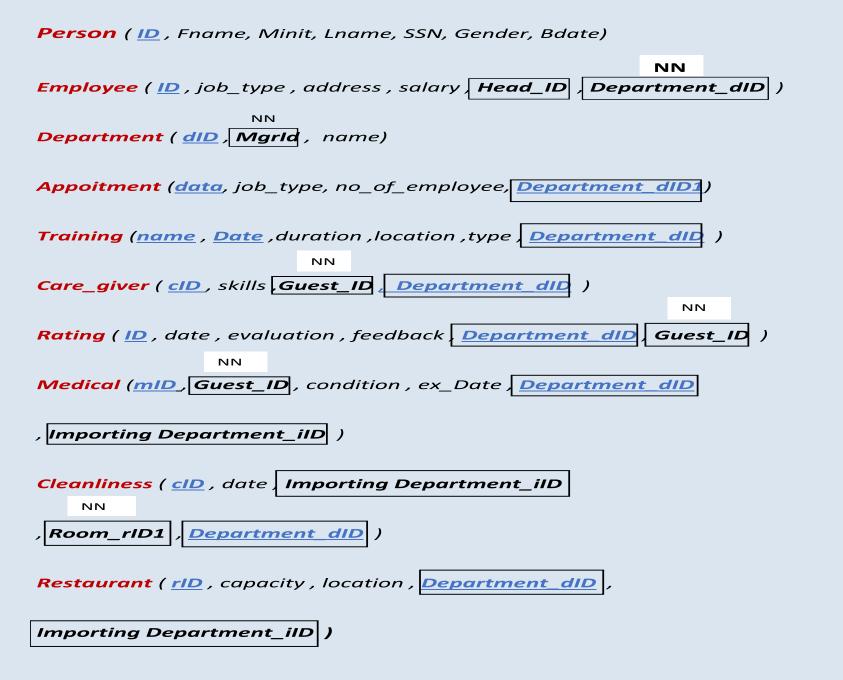
Importing departments

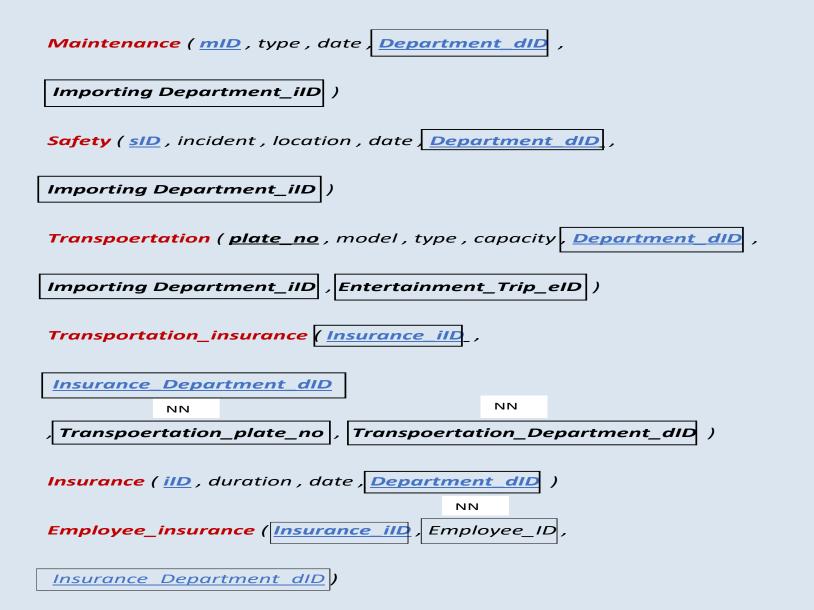
Some departments called (importing departments) import the products which are stored. They import many products, and the one product is provided to a one department. These departments are medical, cleanliness, restaurant, safety, and transportation.

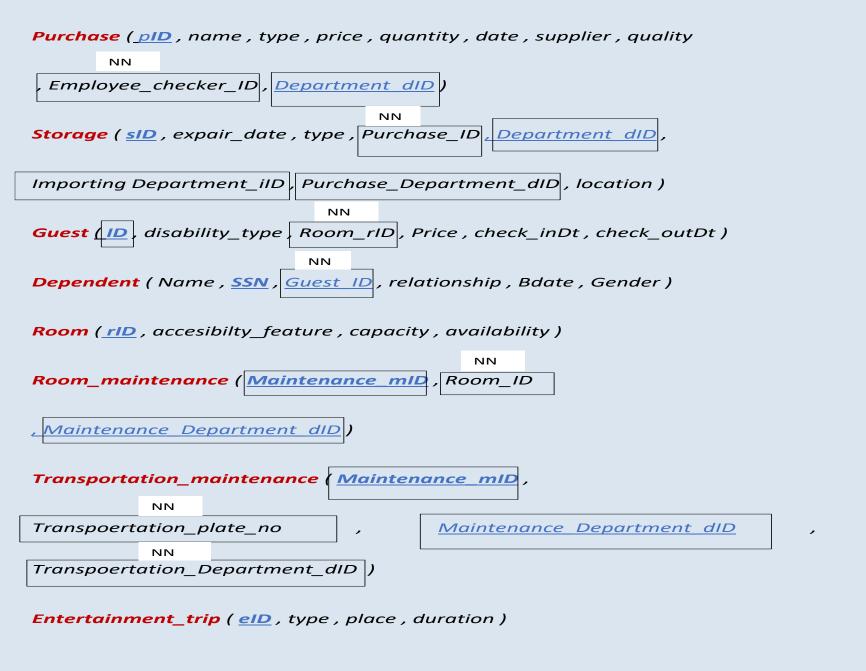
EER model

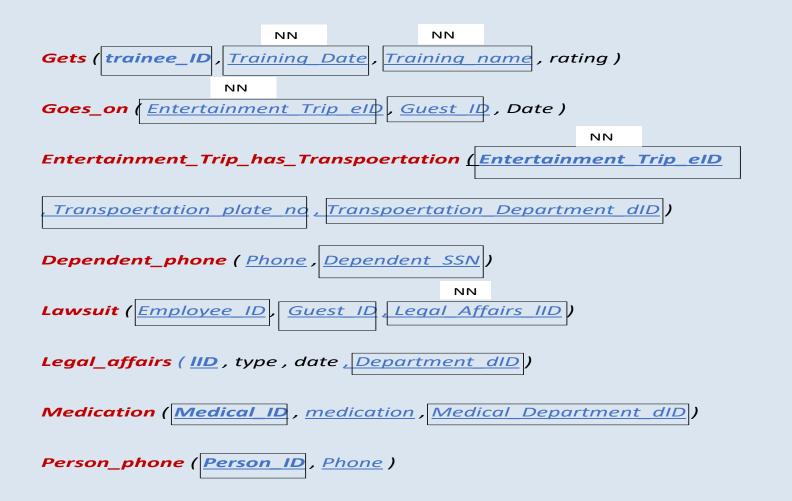


Relational model









Thank you