Computer Science Department

Database Management Systems - Comp333

Phase No.1

Restaurants and Hotels Management System

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Project idea:

Our project focuses on Al-Jebrini Dairy Company in Hebron, with branches in Ramallah, Nablus, and Gaza. Initially, the company used a "cash van" system for supermarkets, where sales reps would restock missing items from their vans. Restaurants and hotels employed a "Pre-order" system, taking orders by phone a day earlier. These methods were inefficient for restaurants and hotels due to restricted kitchen access. We're introducing a city-specific database detailing product availability, allowing these establishments to efficiently order based on their local inventory.

To be more specific:

- Branches have these attributes (Branch-ID, Location), where each branch represents the city's main store.
- Delegate has an (SSN, Name, date of birth, phone number, Gmail, address, salary, and Civil status, available), each delegate has a personal store (The Van) and the store has (product ID, store ID, product name, quantity, Unit (Can, packet, kilogram …etc.), price, Barcode, group name, group ID, LAP (Least amount of product), location).
- Customers have (customer ID, name, wanted-products, Type (Hotel or restaurant), phone number, location, returned products)
- Each branch has multiple stores, but the store must only deal with one branch, the city's one or the nearest.
- Each delegate has only one van (Store), and the van has only one delegate.
- A Delegate will handle many customers depending on availability, on the other hand, the customers will deal with many Delegates.