

SCHOOL OF COMPUTER SCIENCES UNIVERSITI SAINS MALAYSIA

CMT221/CMM222: Database Organization and Design

Semester 1, Academic Session: 2021/2022

System Design

G16

Case Study 26: Delish Enterprise Canteen Management Database System

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1.0 Business Rules

Module 1: Canteen and Stalls

- Each canteen manages many stalls. One stall can only be in one canteen.
- Each stall has many menu items. Many menu items are available in one stall.
- Each menu item can have many ingredients. Many ingredients can be found in many menu items.

Module 2: Stocks

- Each canteen manages many storerooms. One storeroom is managed by one canteen.
- One storeroom keeps a lot of stocks. One stock is kept in only one storeroom.
- A supplier supplies many stock items. One stock item is supplied by only one supplier.
- A stock item is stored in multiple shelves. One shelf stores only one stock item.

Module 3: Employees

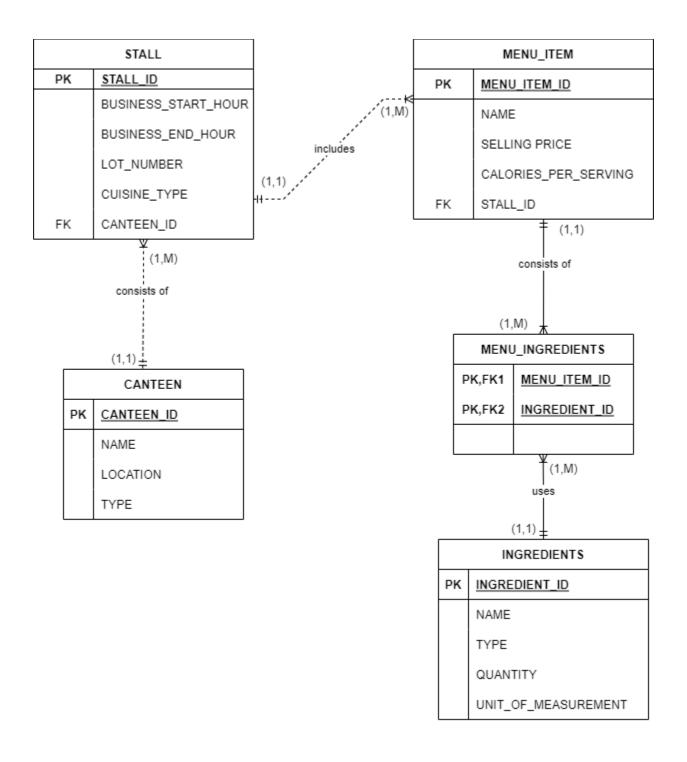
- Each staff has appointed one job. One job is appointed to one staff.
- Each job has one job position. One job position has been provided to one job.
- One staff has many work records. One work record is given to one staff.
- A canteen managed by many staff. One staff manages one canteen.

Module 4: Customers

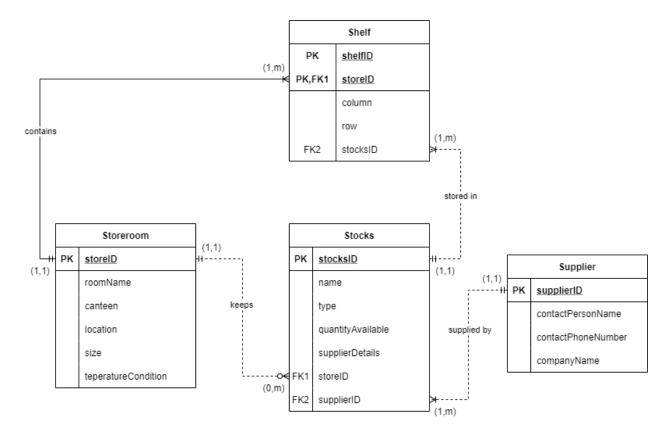
- A customer account can be used in both canteens. A canteen can be used by many customer accounts
- A customer registers for one customer account. A customer account is registered by one customer.
- An employee registers for one customer account. A customer account is registered by one employee.
- A customer account can add many top-up credits. A top-up credit can be added to one customer account.
- A customer account can be used to pay many orders. An order can be paid by one customer account.
- An order can consist of many items. An item can be on many orders.
- An item can be in one menu item. A menu item can be in one item.

2.0 Partial ERD

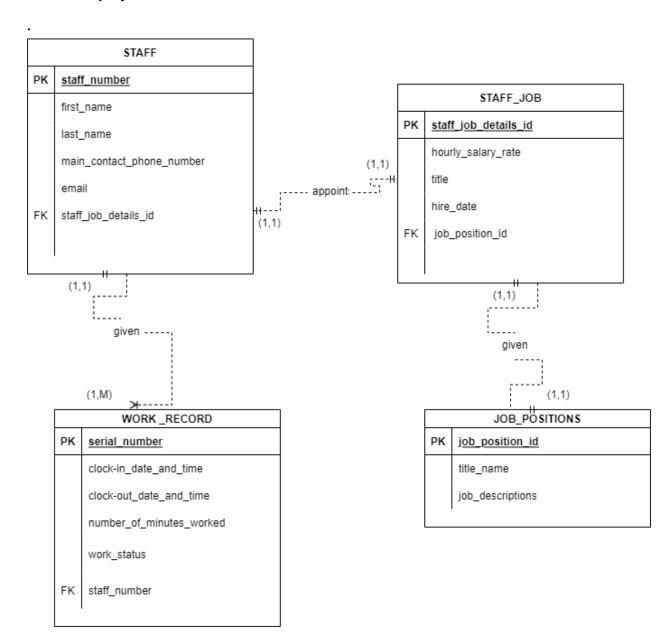
Module 1: Canteen and Stalls



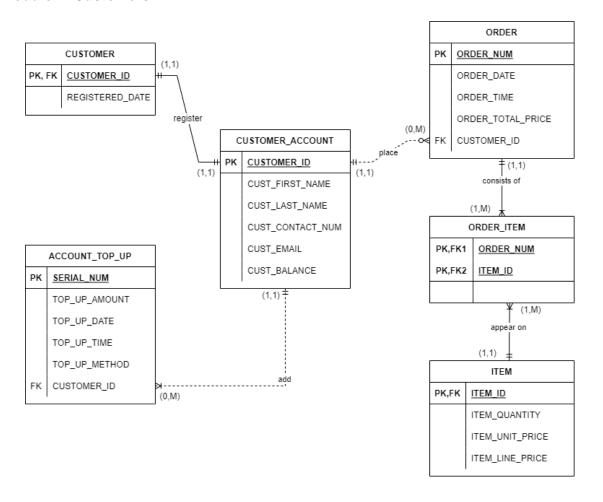
Module 2: Stocks



Module 3: Employees



Module 4: Customers



3.0 Overall ERD

