DBMS ER DIAGRAM

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Attributes, Entity and Relations:

- Menu:
 - Menu_id (Primary Key)
 - Item_id (Foreign Key referencing Item)
- User:
 - User_id (Primary Key)
 - Name
 - Contact_number
 - Address
- Bill:
 - Bill_id (Primary Key)
 - Amount
 - Date
 - Payment_method
 - User_id (Foreign Key referencing User)
- Item:
 - Item_id (Primary Key)
 - Item_name
 - Contents
 - Price
- Order:
 - Order_id (Primary Key)
 - Item_id (Foreign Key referencing Item)
 - Quantity
 - User id (Foreign Key referencing User)
- Admin:
 - Admin_id (Primary Key)
 - Name
- Staff:
 - Staff_id (Primary Key)
 - Name

Relationships:

For the canteen management system, we can define the following relationships:

- User-Order Relationship:
 - One user can place multiple orders.
 - Each order is associated with one user.
 - One-to-Many Relationship.
- User-Bill Relationship:
 - One user can have multiple bills.
 - Each bill is associated with one user.
 - One-to-Many Relationship.
- Item-Order Relationship:
 - One item can be included in multiple orders.
 - Each order includes multiple items.
 - Many-to-Many Relationship.
- Staff-Order Relationship:
 - One staff member can handle multiple orders.
 - Each order is handled by one staff member.
 - One-to-Many Relationship.
- Admin-Staff Relationship:
 - One admin can manage multiple staff members.
 - Each staff member is managed by one admin.
 - One-to-Many Relationship.
- Admin-Item Relationship:
 - One admin can manage the items available in the canteen.
 - Each item is managed by one admin.
 - One-to-Many Relationship.
- Menu-Item Relationship:
 - One menu can have multiple items.
 - Each item belongs to one menu.
 - One-to-Many Relationship.
- Bill-Order Relationship:
 - One bill can contain multiple orders.
 - Each order is associated with one bill.
 - One-to-Many Relationship.
- User-Order Relationship:
 - One user can place multiple orders.
 - Each order is associated with one user.
 - One-to-Many Relationship.
- Staff-Item Relationship:
 - One staff member can manage multiple items.
 - Each item can be managed by one staff member.
 - One-to-Many Relationship.

ER Diagram-

