

DATABASE MANAGEMENT SYSTEM

ASSIGNMENT -II

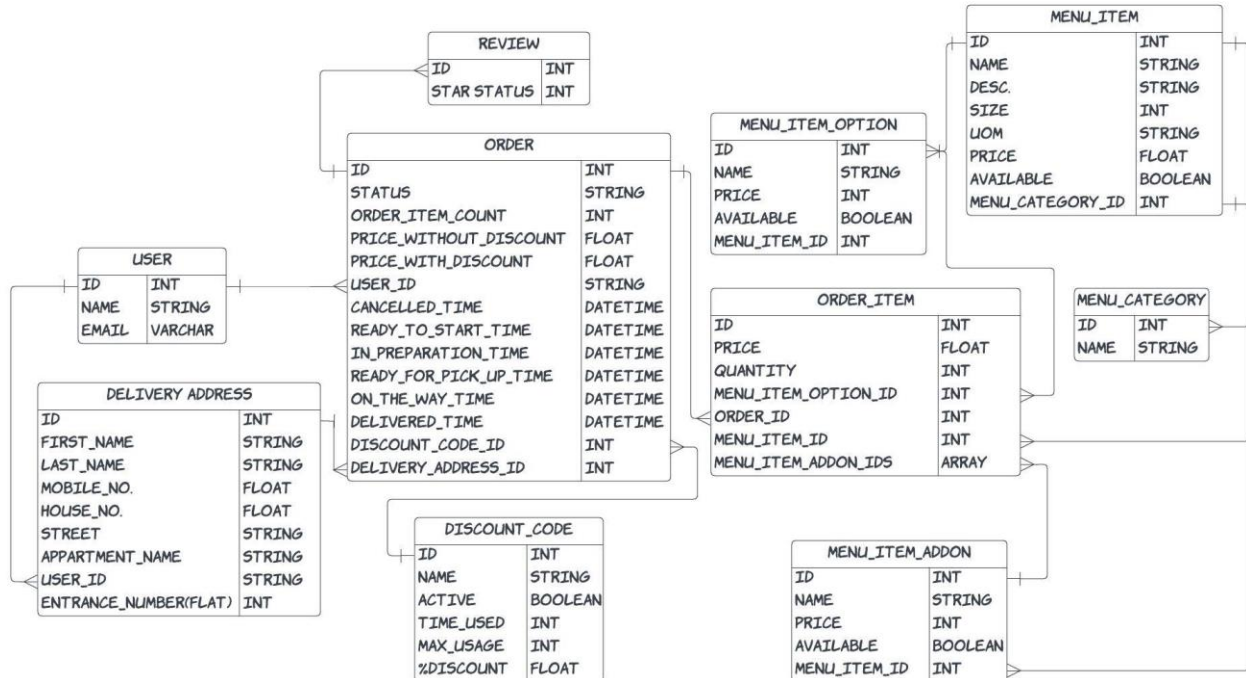
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ENTITY RELATIONSHIP DIAGRAM



HOW IT WORKS:

- 1) A user places one or more orders with certain intervals.
- 2) An order can contain one or more food Items from the same or different restaurant.
- 3) An item belongs to one restaurant can be placed from their menu option (available for each respective restaurants).
- 4) The user can apply discount coupon, if available.
- 5) From specific restaurant if the user order items from menu and also, they will be presented with option of including add-ons to the food placed for order.
- 6) Finally, the order will be placed for one or more food items with or without discount applied.

DESCRIPTION:

In this ER Diagram, we have 9 entities:

- User,
- Delivery address,
- Order,
- Order item quantity,
- Discount code,
- Review,
- Menu item,
- Menu item option,
- Menu category,
- Menu item add-on.

ATTRIBUTES:

- **User Entity:**

- 01)Id,
 - 02)Name,
 - 03)Email.

- **Delivery_address Entity:**

- 01)Id,
 - 02)First_Name,
 - 03)Last_Name,
 - 04)Mobile_No,
 - 05)House_No,
 - 06)Street,
 - 07)Appartment_Name,
 - 08)User_id,
 - 09)Entrance_No.

- **Order Entity:**

- 01)Id,
 - 02)Status,
 - 03)Order_item_count,
 - 04)Price_without_discount,
 - 05)Price_with_discount,
 - 06)User_id,
 - 07)Cancelled_time,
 - 08)Ready_to_start_time,

09)In_preparation_time,
10)Ready_for_pick_up_time,
11)On_the_way_time,
12)Delivered_time,
13)Discount_code_id,
14)Delivery_address_id.

- **Order_item_quantity Entity:**

01)Id,
02)Price,
03)Quantity,
04)Menu_item_option_id,
05)Order_id,
06)Menu_item_id,
07)Menu_item_addon_ids.

- **Discount_code Entity:**

01)Id,
02)Name,
03)Active,
04)Time_used,
05)Max_usage,
06)%Discount.

- **Review:**

01)Id,
02)Star Status.

- **Menu_item Entity:**

- 01)Id,
 - 02)Name,
 - 03)Description,
 - 04)Size,
 - 05)UOM, #Unit_of_measure
 - 06)Price,
 - 07)Available,
 - 08)Menu_category_id

- **Menu_item_option Entity:**

- 01)Id,
 - 02)Name,
 - 03)Price,
 - 04)Available,
 - 05)Menu_item_id.

- **Menu_category Entity:**

- 01)Id,
 - 02)Name.

- **Menu_item_addon Entity:**

- 01)Id,
 - 02)Name,
 - 03)Price,
 - 04)Available,
 - 05)Menu_item_id.

UNDERSTANDING MAPPING CARDINALITIES:

(ONE-TO-ONE RELATIONSHIP)

In this ER Diagram, the entity **ORDER ITEM** is associated with the entity named **MENU ITEM**.

(ONE-TO-MANY RELATIONSHIP)

In this ER Diagram, the entity **USER** is associated with the entities **DELIVERY ADDRESS** and **ORDER**.

Similarly, the entity **ORDER** is associated with the entities **DISCOUNT CODE**, **REVIEW** and **ORDER ITEMS**.

In the similar accounts, **MENU ITEM** is associated with the entities with **MENU ITEM OPTION** and **MENU ITEM ADDON**.

(MANY-TO-ONE RELATIONSHIP)

In this ER Diagram, the entity **MENU ITEM** is associated with the entity named **MENU CATEGORY**.

Same as above, the entity **ORDER ITEM** addon is associated with the entity named **MENU ITEM ADDON**.