**Database Structure for ZaiEats (Online Food Delivery System)**

**Users**

*Stores user account and profile info.*

* **UserId**: Primary key, unique ID for the user
* **FullName**: Full name of the user
* **Email**: Unique email address
* **Password**: Encrypted password string
* **PhoneNumber**: Optional contact number
* **Address**: Default delivery address
* **CreatedAt**: Timestamp when the user account was created

**Restaurants**

*The 4 Restaurants.*

* **RestaurantId**: Primary key
* **Name**: Name of the restaurant
* **Description**: Short description of the restaurant
* **ImageUrl**: Logo or display image URL

**MenuItems**

*Menu items listed per restaurant*.

* **MenuItemId**: Primary key
* **RestaurantId**: Foreign key to Restaurants
* **CategoryId**: Foreign key to MenuCategories
* **Name**: Name of the menu item
* **Description**: Description of the food item
* **Price**: Cost of the item
* **ImageUrl**: Image of the food item
* **IsAvailable**: Boolean indicating if the item is currently orderable

**MenuCategories**

*Food categories per restaurant (eg. Burgers, Drinks etc)*

* **CategoryId**: Primary key
* **RestaurantId**: Foreign key to Restaurants
* **Name**: Category name (e.g, “Drinks”, “Desserts”)
* **Description**: Optional Description of the category

**CartItems**

*Items added to cart (not yet ordered).*

* **CartItemId**: Primary key
* **UserId**: Foreign key to Users
* **MenuItemId**: Foreign key to MenuItems
* **Quantity**: Number of items added
* **CreatedAt**: Timestamp when the item was added to the cart

**Orders**

*Submitted orders by users.*

* **OrderId**: Primary key
* **UserId**: Foreign key to Users
* **RestaurantId**: Foreign key to Restaurants
* **TotalAmount**: Total cost of the order
* **OrderStatus**: Current status (e.g., Pending, Delivered)
* **CreatedAt**: When the order was placed
* **PaymentId**: Foreign key to Payments
* **DeliveryStatusId**: Foreign key to DeliveryStatuses

**OrderItems**

*Details of each item in an order.*

* **OrderItemId**: Primary key
* **OrderId**: Foreign key to Orders
* **MenuItemId**: Foreign key to MenuItems
* **Quantity**: How many of this item were ordered
* **PriceAtTime**: Price of the item at time of order

**Payments**

*Tracks payment for each order.*

* **PaymentId**: Primary key
* **OrderId**: Foreign key to Orders
* **UserId**: Foreign key to Users
* **Amount**: Total amount paid
* **PaymentMethod**: e.g., Card, Cash, Wallet
* **PaymentStatus**: Paid, Failed, or Pending
* **TransactionRef**: Reference from payment provider (if applicable)
* **CreatedAt**: When payment was made

**Ratings**

*User feedback on menu items or restaurants.*

* **RatingId**: Primary key
* **UserId**: Foreign key to Users
* **RestaurantId**: Foreign key to Restaurants (nullable)
* **MenuItemId**: Foreign key to MenuItems (nullable)
* **Score**: Rating value (e.g., 1 to 5 stars)
* **Comment**: Optional user review
* **CreatedAt**: When the rating was submitted

🔸 Either RestaurantId or MenuItemId must be filled, not both.

**DeliveryStatuses**

*Tracks real-time delivery updates per order.*

* **DeliveryStatusId**: Primary key
* **OrderId**: Foreign key to Orders
* **Status**: e.g., Dispatched, Out for Delivery, Delivered
* **UpdatedAt**: When the status was last updated
* **Remarks**: Optional message or delivery note