

## Team 10 Restaurant Database

### Introduction:

This repository contains the contents of a Project that contains a database that is supposed to hold a chain of restaurants. It will have tables that include the payments for orders, frequent customers as well as the locations for restaurants. Criteria from prompt A chain of Asian restaurants, diverse food/beverage items. Consider payment info, package meals, tax, tips, restaurant location. Customers with/without loyalty (membership) card. Ability to pay with card or cash.

Project Overview Key files included:

### File organization:

- index.js: Main server file that runs the website as well as carrying some API calls
- customerRoutes.js: API calls to get customers
- menuRoutes.js: API calls to get menu items
- .env: Configuration for database connection
- public/: Contains our website files (some have scripts within the .html files that use API calls)
- Restraunt\_V16.sql: The .sql dump to import the postgresql database into local computer

### Notable SQL queries:

1) Menu Items with Pricing Query:

```
SELECT mi.menu_item_id, mi.item_name, mi.type_of_menu_item,  
       mi.quantity, p.price  
FROM menu_item mi  
JOIN pricing p ON mi.menu_item_id = p.menu_item_id  
ORDER BY mi.type_of_menu_item, mi.item_name
```

2) Transaction History Query:

```
SELECT t.transaction_id, t.payment_id, t.cash, t.amount, t.order_id, t.cust_id,  
       t.created_at, c.username, c.email FROM transactions t JOIN customer c ON c.user_id =  
       t.cust_id ORDER BY t.created_at DESC
```

3) Orders with Location Information:

```
SELECT o.id as order_id, o.order_date, o.total_amount, o.status, f."City" as  
franchise_city, f."State" as franchise_state FROM orders o JOIN franchise f ON  
o."Franchise_id" = f.id ORDER BY o.order_date DESC
```

### Key Tables:

- Customer: Stores user profiles and membership status

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- Menu\_Item: Manages food items and inventory
- order\_items: has composite key of order\_id and menu item
- Orders: contains the order\_id and status
- Franchise: Manages restaurant locations
- Transactions: Records payment information
- Pricing: Handles menu item pricing

**Core Features:**

1. Customer Management
  - Membership tracking
  - Profile management
  - Order history
2. Menu System
  - Categorized items (Appetizers, Main Dishes, etc.)
  - Price management
  - Inventory tracking
3. Order Processing
  - Real-time status updates
  - Multiple payment methods
  - Transaction recording
4. Location Management
  - Multiple franchise support
  - Location-specific ordering
  - Regional management

Reference of websites:

<https://www.pizzahut.com/>

<https://www.pandaexpress.com/>

Link to video:

<https://drive.google.com/file/d/14oMcyAqsr8N1SZQ5Yyo02Lu3cX048oNz/view?usp=sharing>

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ER Diagram:

