**KP Foods - SQL Project Documentation**

KP Foods is a food delivery management system designed using SQL. It manages restaurants, menus, customers, delivery partners, orders, and deliveries. This project demonstrates database creation, table relationships, and SQL queries from simple to advanced.

# Database Schema

The KP Foods database consists of the following tables:

1. KP\_Restaurants - Stores restaurant details.
2. KP\_Menu - Contains menu items with prices.
3. KP\_Customers - Holds customer information.
4. KP\_DeliveryPartners - Information about delivery partners.
5. KP\_Orders - Tracks orders placed by customers.
6. KP\_Deliveries - Tracks delivery status and times.

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| **Table** | **Description** |
| KP\_Restaurants | Restaurant details such as name, location, rating |
| KP\_Menu | Menu items and prices linked to restaurants |
| KP\_Customers | Customer details including name, phone, and address |
| KP\_DeliveryPartners | Delivery partner details and ratings |
| KP\_Orders | Order details including customer, restaurant, and total amount |
| KP\_Deliveries | Delivery details including partner and status |

# Sample Queries

The project demonstrates SQL queries across different levels:

* Simple Queries: Listing all customers, finding restaurants by location, filtering menu items by price.
* Update/Delete Queries: Updating order status, deleting a menu item.
* Aggregate Functions: Total revenue, average restaurant rating, most expensive dish.
* Joins: Orders with customer and restaurant details, delivery times per partner, revenue per restaurant.
* Advanced Queries: Most popular restaurant, most popular dish, customers with high-value orders.

# Conclusion

KP Foods demonstrates how SQL can be used to design and manage a food delivery application. It covers database design, relationships, and practical queries used in real-world platforms. This project can be extended into a full application by integrating with a frontend and backend system.