🍽 International Cuisine Restaurant Analysis

Overview

This project explores data from a fictional international cuisine restaurant, analyzing a quarter's worth of orders to uncover actionable insights. The project combines **SQL Server Management Studio (SSMS)** for **Exploratory Data Analysis (EDA)** and **Power BI** for creating interactive visualizations.

🎯 Objectives

The key objectives of this project are:

1. **Exploratory Data Analysis (EDA):** Conducted using SSMS to uncover vital business insights.

2. **Visualization and Insights:** Developed in Power BI to present data interactively and effectively.

🛠 EDA Process in SSMS

Detailed analysis was conducted on the restaurant's operational data using SQL queries. This step-by-step approach provided critical insights, such as:

- 📋 **Total Items on the Menu**

- 💰 **Most and Least Expensive Item on the Menu**

- 🍴 **Total Number of Dishes by Each Category**

- 📦 **Total Orders and Their Breakdown by Items**

- ⭐ **Top and Least Ordered Items**

- 🏆 **Top 5 Orders by Money Spent**

📊 Visualization and Insights in Power BI

Power BI played a crucial role in transforming the data into meaningful insights through interactive visualizations. The key visualizations included:

- 📈 **Average Price by Category**

- 🍽 **Number of Dishes by Category**

- 💹 **Total Sales and Orders Overview**

- 📅 **Monthly Sales Trends**

- 🔝 **Top and Least Sold Items by Category**

- 📊 **Item-wise Total Orders by Category**

📑 DAX Measures

Custom DAX measures were crafted to enhance the analysis. Key measures included:

- 💲 **Total Sales**

- 🛒 **Total Orders**

- 🧾 **Order Count**

📌 Conclusion

This project showcases the power of combining **SQL** for detailed data exploration and **Power BI** for impactful storytelling. By analyzing and visualizing the restaurant's performance, this analysis provides valuable insights to drive informed decision-making and optimize operations.