Executive Summary:

- ⊕Data Extraction and Preparation
- **Data Source**: CSV files loaded into Power Query Editor in Excel.
- Data Cleaning Steps:
- **Date Format Standardization**: Fixed data format from dd/mm/yy to a standardized format.
- **Sandling Null Balues**: Identified that 1% of the data was null, equating to 12,234 records with 137 empty item_id values. These null values were deleted.
- **Data Enrichment**: Merged queries to add prices to order details from the menu table based on item_id.
- **All ditional Columns**: Added columns for month name, weekday, weekend, and hours.
- Data Modification: Adjusted and cleaned the data for accurate analysis.

Data Analysis Insights

Prood Orders and Sales Trends:

Popularity of Usian Food: Asian food received the highest number of orders but Italian food led in sales.

QDan-wise Order Distribution:

₽Peaf Dans: Monday saw the maximum number of orders, followed by Saturday.

⊕Busiest Sours: The highest volume of orders occurred at 12 PM, with significant activity between 12-2 PM and 4-7 PM.

QTop Wood Stems: The top 5 ordered items were

- 1.Hamburger
- 2.Edamame
- 3.Korean Beef Bowl
- 4.Cheese Burger
- 5.French Fries

Palentine's Day Trends: On Valentine's Day, there was a noticeable spike in orders during the evening, with a preference for Italian and Mexican cuisines.

Business Solutions and Recommendations

- \$\Pricing \text{Strategy}: Increase the price of Asian food by 5% to capitalize on its high demand.
- ABromotional Strategies for Italian Food: Introduce offers to boost the sales of Italian food.
- QWeefend Sales Boost: Implement promotions and special offers during weekends to drive higher sales.

Interactive Dashboard Features

To support the above analysis and provide dynamic insights, the interactive dashboard includes:

- **Date Range Selector**: Allows users to filter data by specific dates.
- Prood Category Filter: Enables the analysis of different food categories.
- QDrder Trends Bisnalization Displays trends in orders by day and time.
- QTop Items Chart: Highlights the most ordered food items.
- **©Sales Comparison**: Compares sales of different cuisines.
- ABalentine's Day Special: A dedicated section showing trends and preferences on Valentine's Day.

By implementing this interactive dashboard, stakeholders can gain actionable insights to make datadriven decisions, optimize pricing strategies, and enhance promotional activities to maximize sales and customer satisfaction.