6. DashBoard:

Let's design a dashboard for college food services that brings together student preferences, meal popularity, and food waste data. Below is a ready-to-build dashboard layout and what it can include, along with options to build it in Excel, Power BI, or Python.

Tashboard Objective:

To help dining services staff and administrators:

Understand student dietary trends

Track popular and unpopular meals

Reduce food waste

Monitor feedback and satisfaction

DASHBOARD LAYOUT (Sections)

1. Top-Level KPIs (Key Performance Indicators)

Show these at the top:

Metric Example

Total Meals Served (This Week) 4,200

** % Plant-Based Meals 42%

Total Food Waste (kg) 123 kg

Average Student Rating 4.2 / 5

2. Meal Popularity (Bar Chart)

Title: Top 10 Meals by Sales

X-axis: Meal names

Y-axis: Times served

Tooltip: Avg rating

Data: Join menu_items + transactions + feedback

3. Waste Trends (Heatmap or Line Chart)

Title: Daily Waste by Meal Type

X-axis: Date

Y-axis: Meal Category or Name

Color: Waste % or waste weight

Data: inventory_waste.csv
4. Student Feedback (Ratings & Word Cloud)
Box Plot or Bar Chart: Ratings by category
Word Cloud: From comment text (optional with Python or Power BI custom visual)
5. Dietary Preference Breakdown (Pie or Donut Chart)
Vegan / Vegetarian / Omnivore / Allergies
🛱 Data: students.
(Line Chart)
Title: Meal Transactions per Day/Hour
Helps plan for peak dining times
🛱 Data: transactions.
Build Options (Pick One)
Option 1: Excel Dashboard
Use pivot tables for data aggregation
Insert bar/pie/line charts using built-in chart tools

Easy to customize for basic use 🔽 I can generate a working .xlsx template for you
Option 2: Power BI Dashboard
Drag and drop interactive visuals
Slicers for date ranges, dorms, diet types
Can connect to live Google Sheets or databases 🗹 I can help design the Power BI layout with sample data
Option 3: Python Dashboard (Plotly Dash / Streamlit)
Ideal for web apps or custom logic
Use Python for full control, analytics, and visuals 🗹 I can provide a starter Python script with interactive charts
Please choose:
Tool (Excel / Power BI / Python)
Do you want mock data files included?
© Do you want a downloadable template or code?