Hotel Billing Dashboard — Overview

Features

- Menu with South Indian dishes, prices, and categories
- Quantity input per item (simulated via numeric field)
- Checkbox-style filters for categories (e.g., Dosa, Idli, Vada)
- Dynamic billing table: shows selected items, quantity, total price

Visual Insights

- Pie chart of category-wise sales
- Bar chart of top-selling items
- KPI cards: Total Items, Total Amount, Average Price

Required Columns (Google Sheet)

Item	Category	Price	Quantity

You can expand to 20-30 items for a richer dashboard.

Step 1 — Connect Tableau Public to Google Sheets

1. Go to Tableau Public → Sign In
2. Click Create → Web Authoring
3. Connect → Google Sheets → select your sheet

Data loaded in Tableau Public Web.

Step 2 — Calculated Fields

Total Price per Item

Create Calculated Field → Total Price

```
[Price] * [Quantity]
```

KPIs

- Total Items Sold → `SUM([Quantity])`
- Total Billing Amount → `SUM([Total Price])`
- Average Item Price → `AVG([Price])`

Sheet 1 — Billing Table (Interactive)

Concept: Show selected items and totals.

1. Drag Item → Rows
2. Drag Category → Rows (or Columns if you want grouped by category)
3. Drag Price → Columns
4. Drag Quantity → Columns
5. Drag Total Price → Columns → Show as label
6. Optional: Sort by Category or Price

Enable Filters:

- Drag Category → Filters → show filter as checkboxes
- User can tick Dosa, Idli, Vada, etc.

This sheet works like an interactive billing table.

Sheet 2 — Category-wise Pie Chart

Concept: Visual breakdown of sales by category

1. Drag Category → Columns
2. Drag Total Price → Rows
3. Marks → Pie
4. Drag Total Price → Size and Label
5. Optional: Color by Category

Shows percentage contribution of each category to total billing.

Sheet 3 — Top-Selling Items (Bar Chart)

1. Drag Item → Rows
2. Drag Quantity → Columns
3. Sort descending

4. Drag Category → Color
5. Show data labels → Quantity

Highlights best-selling dishes.

Sheet 4 — KPIs (Cards)

Create 3 separate sheets:

- Total Items Sold → `SUM([Quantity])` → Marks → Text
- Total Billing Amount → `SUM([Total Price])` → Text
- Average Price → `AVG([Price])` → Text

Format with big numbers, bold titles.

These are your dashboard KPIs.

Sheet 5 — Quantity Slider Input Simulation

Tableau Public doesn't allow direct editable input fields, but we can simulate quantity selection using parameters.

1. Create Parameter → Quantity Selection
    - Data Type: Integer
    - Range 0-20 (or max quantity)
    - Current Value: 0
2. Create Calculated Field → Item Quantity

    `[Quantity] + [Quantity Selection]`
3. Use Item Quantity in the billing table instead of Quantity

Users can select quantity via slider, and Total Price updates dynamically.

Step 6 — Build the Dashboard

1. Click New Dashboard (+)
2. Drag Sheets 1-5 into dashboard

Add Filters to dashboard:

- Category filter → apply to all relevant sheets
- Add Parameter control slider → applies to Quantity in billing table
- Optional: format colors, labels, and borders for clarity

Step 7 — Interactivity

- Checkboxes → Filter table, pie chart, and bar chart by category
- Slider → Simulate quantity entry, updates total price
- Hover → Shows price, quantity, and total per item
- Dynamic totals → KPIs update automatically when filters or quantity change

Notes & Tableau Public Limitations

- Direct editable numeric input per row isn't available in Public Web; sliders/parameters simulate this
- Real "live billing" is limited, but this setup provides fully interactive, scalable dashboard
- Can expand to more dishes, categories, combo offers, and visualizations like stacked bars, treemaps, or donut charts

Key Plots Included

Sheet	Plot Type	Purpose
1	Table	Billing table with quantities and totals
2	Pie Chart	Category-wise sales distribution
3	Bar Chart	Top-selling items by quantity
4	Text Cards	KPIs: total items, total amount, average price
5	Parameter Slider	Simulate quantity input

This is neat, scalable, interactive, and works fully in Tableau Public Web.