

2. Connect to Your Data

1. On the **start screen**, under **Connect**, choose the file type:
 - **Microsoft Excel** if your data is in .xlsx
 - **Text file** if it's a .csv
 2. In the file chooser, navigate to and select your Retail file (e.g. retail.csv).
 3. Tableau opens the **Data Source** tab:
 - You'll see your columns: InvoiceNo, StockCode, Description, Quantity, InvoiceDate, UnitPrice, CustomerID, Country.
 - Check that each field has the correct data type icon:
 - Calendar icon for **InvoiceDate** (Date or Date & Time)
 - ABC for **Description, InvoiceNo, StockCode, CustomerID, Country**
 - **(decimal)** for **Quantity, UnitPrice**
 - If anything's wrong, click its data-type icon and choose the correct type.
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3. Create the "Sales" Calculated Field

We need a measure that multiplies Quantity × UnitPrice.

1. In the left pane under **Data**, hover over your data source name.
2. Click the down-arrow ► and choose **Create Calculated Field...**
3. In the dialog:
 - **Name:** Sales
 - **Formula:**

css

Copy code

```
[Quantity] * [UnitPrice]
```

4. Click **OK**.
5. You'll now see **Sales** under Measures.

4. Build Your Six Sheets

Tip: At the bottom, click the “New Worksheet” icon (sheet with “+”) to create each sheet.

a. Sheet 1: Top 10 Products by Total Sales

1. **Rename** the sheet tab (double-click) to “Top 10 Products”.
2. On the left:
 - Double-click **Description** → appears on Rows.
 - Double-click **Sales** → appears on Columns as SUM(Sales).
3. To filter to Top 10:
 - On Rows, click the ▼ on **Description** → **Filter....**
 - In the Filter dialog, go to the **Top** tab.
 - Select **By Field** → Top → **10** by **Sum(Sales)** → **OK**.
4. **Sort** bars descending:
 - Click the SORT icon on the toolbar (or click the Sort icon next to Description on Rows).
5. **Show labels:**
 - On the Marks card, click **Label** → check **Show mark labels**.
6. **Title:** double-click the default title and type “Top 10 Products by Sales”.

b. Sheet 2: Product Contribution to Total Sales

1. Create a new sheet, name it “Product % of Total”.
2. Double-click **Description** (Rows) and **Sales** (Columns).
3. On the Marks card, change type to **Pie**.
4. Drag **Sales** from Measures onto both **Angle** and **Label** on Marks.
5. On the **Sales** pill on Label:
 - Click its drop-arrow → **Quick Table Calculation** → **Percent of Total**.

6. (Optional) Filter to Top N:

- Use the same Top filter on Description as in Sheet 1, and check **Include Other**.

7. Edit Label:

- Click **Label** → in text box type:

scss

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<Description>

<SUM(Sales)> (<Percent of Total:Percent>)

8. Title it “Product Contribution to Total Sales”.

c. Sheet 3: Month-Wise Sales in 2010

1. New sheet, rename to “2010 Month Sales”.
 2. Double-click **InvoiceDate** → Tableau defaults to YEAR(InvoiceDate) on Columns.
 3. Click the **InvoiceDate** pill on Columns:
 - Choose **Month** (Discrete) instead of Year.
 4. Drag **Sales** to Rows.
 5. Filter to 2010:
 - Click the ▼ on **InvoiceDate** on Columns → **Filter...** → **Years** → check only **2010** → **OK**.
 6. Sort months by sales descending:
 - Click the SORT icon next to InvoiceDate (Months).
 7. Show labels: on Marks → Label → check **Show mark labels**.
 8. Title: “2010 Month-Wise Sales (Descending)”.
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d. Sheet 4: Most Loyal Customers

1. New sheet, rename to “Loyal Customers”.

2. Double-click **CustomerID** on Rows.
 3. Drag **InvoiceNo** to Columns; click the drop-arrow on that pill → **Measure** → **Count (Distinct)**.
 4. Filter to Top N customers:
 - Click ▼ on **CustomerID** → **Filter...** → **Top** → By Field → Top 10 by **COUNTD(InvoiceNo)** → OK.
 5. Sort descending by order count.
 6. Show labels: Marks → Label → Show mark labels.
 7. Title: “Top 10 Loyal Customers (by Number of Orders)”.
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e. Sheet 5: Yearly Sales Comparison

1. New sheet, rename “Yearly Trend”.
 2. Double-click **InvoiceDate** → switch pill to **Year** (Discrete) on Columns.
 3. Drag **Sales** to Rows.
 4. On the Marks card, choose **Line**.
 5. (Optional) Drag **InvoiceDate (Year)** to Color for different-year lines.
 6. Show labels (if desired): Marks → Label → Show mark labels.
 7. Title: “Yearly Sales Comparison”.
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f. Sheet 6: Country-Wise Sales Map

1. New sheet, rename “Sales by Country”.
 2. Double-click **Country**. Tableau should generate a map.
 3. Drag **Sales** to **Color** on Marks (for a filled-map).
 4. Adjust color legend: click the legend → **Edit Colors...** → choose a sequential palette.
 5. Title: “Country-Wise Total Sales”.
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5. Create a Dashboard

1. Click the **New Dashboard** icon next to the sheet tabs.
2. On left, under **Sheets**, drag each of your six sheets into the dashboard canvas.
3. Arrange in a grid:
 - Top row: “Top 10 Products” & “Product % of Total”
 - Middle row: “2010 Month Sales” & “Yearly Trend”
 - Bottom row: “Loyal Customers” & “Sales by Country”
4. **Add a Title:** double-click the top of the dashboard and type “Retail Sales Analysis”.
5. **Size:** set Dashboard Size (top-right) to a preset like **Desktop Browser (1400×900)**.
6. **Global Filters** (optional):
 - Drag, for example, the Year filter from one sheet to the Filters shelf, then click the drop-arrow on that filter in the dashboard and choose **Apply to Worksheets → All Using This Data Source**.