

**Experiment 2:** To analyse sales performance data and build a sales funnel using any open source BI tool (**Tableau Public**)

**Title:**

To analyse sales performance data and build a sales funnel using Tableau Public.

**Objective:**

- To analyse sales performance using Tableau Public.
- To build a sales funnel visualization for tracking customer conversion stages.
- To interpret insights from sales data for decision-making.

**Software/Tools Required:**

- Tool: Tableau Public
- Dataset: Sample Superstore Dataset (CSV)
- System: Windows/Linux/Mac with internet access

**Theory Overview:**

**Business Intelligence (BI):**

Business Intelligence is a technology-driven process that helps organizations collect, analyze, and present business information to support decision-making. BI tools transform raw transactional data into meaningful insights through reports, dashboards, and interactive visualizations. These insights help businesses identify trends, monitor performance, and make data-driven decisions.

**Sales Performance Analysis:**

Sales performance analysis is the process of examining sales data to evaluate the effectiveness of strategies, sales teams, and customer engagement activities. It includes:

- Measuring key performance indicators (KPIs) like revenue, profit, conversion rates, and customer acquisition costs.
- Identifying top-performing products, regions, or sales representatives.
- Detecting bottlenecks in the sales process that reduce efficiency.
- Comparing actual sales with targets to evaluate goal achievement.

**Sales Funnel in Business:**

A sales funnel is a visual representation of the stages customers go through before making a purchase. It typically includes stages such as:

- **Leads/Prospects:** Initial potential customers showing interest.
- **Qualified Leads:** Prospects evaluated and filtered based on buying intent.
- **Opportunities:** Customers who are actively considering a purchase.
- **Closed Deals/Conversions:** Customers who complete the purchase.

This funnel allows businesses to understand where most prospects drop off, enabling them to refine their marketing and sales strategies.

**Tableau Public for Sales Funnel Visualization:**

Tableau Public is an open-source BI tool that provides:

- **Easy connectivity to datasets:** CSV, Excel, Google Sheets, or databases.
- **Drag-and-drop interface:** Enables quick visualization creation.
- **Calculated fields:** Allow creation of custom KPIs such as conversion rates.
- **Interactive dashboards:** Combine multiple charts (bar, line, pie, funnel) for comprehensive insights.

When applied to sales performance analysis, Tableau Public helps:

1. Visualize **regional and product-wise sales** using bar charts.
2. Track **sales trends over time** using line charts.
3. Show **profit distribution** across categories with pie charts.
4. Build a **sales funnel chart** that reflects customer conversion at each stage.

Thus, BI tools like Tableau Public make sales analysis highly visual, interactive, and actionable, empowering decision-makers to optimize strategies for growth.

### Procedure (Using Tableau Public):

#### 1. Install Tableau Public

- Download from <https://public.tableau.com>.
- Install and sign in with an email ID.

#### 2. Download Sample Dataset

- Use the “Sample Superstore” dataset.
- Download link: Sample Superstore CSV.

#### 3. Connect Data

- Open Tableau Public → Click on “Text File” → Select SampleSuperstore.csv.

#### 4. Data Understanding

- Tableau displays dataset preview.
- Important fields: Customer ID, Order Date, Sales, Profit, Category, Region, etc.

#### 5. Build Sales Funnel Visualization

- Create a calculated field for defining funnel stages (e.g., Leads, Qualified, Opportunities, Closed Deals).
- Drag **Funnel Stage** to Rows and **Sales** to Columns.
- Change visualization type to **Funnel Chart** (using bar chart → quick table calculation → percent of total).
- Add filters (Region, Segment, Category) for deeper analysis.

## 6. Additional Analysis

- Bar Chart → Sales by Category.
- Line Chart → Sales Trend over Time.
- Pie Chart → Profit by Region.

### Result/Observation:

- Sales data was successfully analysed in Tableau Public.
- A sales funnel was created to visualize the conversion journey of customers.
- Trends in category-wise sales, profit, and regional distribution were observed.

### Conclusion:

Students learned to use Tableau Public for analysing sales performance data and creating a sales funnel visualization. This provided insights into customer conversion rates and sales strategies.

### Viva Questions:

1. What is Tableau Public, and how is it different from Tableau Desktop?
2. What is a sales funnel, and why is it important?
3. Which steps are involved in creating a funnel chart in Tableau?
4. Explain the difference between dimension and measure in Tableau.

### CO & PO Mapping:

- COs: L2, L3, L4
- POs: 1, 2, 5, 9

### Faculty In-charge:

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