



Retail Analytics Dashboard – Student Instructions

Dataset Structure:

- **Stores:** Store_ID, Store_Name, Region
 - **Products:** Product_ID, Product_Name, Category, Unit_Price
 - **Sales:** Transaction_ID, Date, Store_ID, Product_ID, Units_Sold, Unit_Price, Total_Sale_Amount
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Business Context:

RetailHub is reviewing its performance across stores and products over the last two years. Leadership wants a Power BI dashboard that provides data-driven insights into **sales trends**, **product demand**, and **regional growth opportunities**.



Objectives for Students:

Create a multi-page Power BI report with the following components:



Page 1: Executive Summary Dashboard

Visuals to Include:

- Total Sales (Card)
 - Total Units Sold (Card)
 - Avg Sale Value (Card)
 - Sales by Region (Map or Donut Chart)
 - Sales by Store (Bar Chart)
 - Slicers: Region, Store, Date
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Page 2: Product Performance Analysis

Visuals to Include:

- Sales by Product Category (Bar Chart)
- Top 10 Products by Revenue (Bar Chart)
- Units Sold vs Revenue by Category (Stacked Column)
- Matrix Table: Product-wise sales, price, units sold

Page 3: Time Series & Trend Analysis

Visuals to Include:

- Monthly Sales Trend (Line Chart)
 - Revenue per Store Over Time (Line or Area Chart)
 - Seasonal Sales Patterns (Line/Column with Year-Month breakdown)
 - Filters: Year, Month
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Optional Page: Drill-down/Details

- Create a table with:
 - Date, Region, Store, Product, Category, Units Sold, Sale Amount
 - Add slicers for user-driven deep dive
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KPIs & Measures to Create:

- Total Revenue = `SUM(Sales[Total_Sale_Amount])`
 - Avg Revenue per Transaction = `AVERAGE(Sales[Total_Sale_Amount])`
 - Total Units Sold = `SUM(Sales[Units_Sold])`
 - Transactions Count = `COUNT(Sales[Transaction_ID])`
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Student Deliverables:

1. A .pbix Power BI file with all visualizations
2. A 5-point insights summary answering:
 - Which region/store/product performed best?
 - Any seasonal or monthly sales trends?
 - What categories are most profitable?

Link for the dataset: [Retail_analytics dataset](#)