Functional Requirement Document (FRD)

Project Name: Adidas Sales Performance Dashboard

1. Dashboard Sections

The Power BI dashboard consists of the following key sections:

- Sales Overview: Displays total sales, profit, and margin trends over time.
- Regional Analysis: Compares sales and profitability across regions, states, and cities.
- **Product Performance:** Highlights top/least-performing products and categories.
- Retailer Analysis: Shows contribution of different retailers to total sales and profit.

3. Data Requirements

The dashboard uses the following dataset columns from the Excel file (Adidas US Sales Datasets.xlsx):

Calender (dimention): Date, Day, Month name, Month Number, Quarter, Year

Products: Products Name

Retailer: City, Region, state, Retailer ID, Retailer

State: Invoice date, products, units sold, total sales, operating profit, operating margin, sales

method, retailer id

4. Filters / Slicers

The dashboard includes interactive filters and slicers for:

• Sales overview: Products, year

• Product Performance : Region , Date

• Retailer Analysis : Date

• Region Analysis : Date , Sales Method

5. Visuals / Charts

Each section of the dashboard uses the following visualizations:

• Sales Overview:

- o KPI Cards Total Sales, Profit, Margin %
- Line Chart Sales Trend over Time
- o Dounght Chart Total Sales by Sales Method (Online/Offline/Wholesale).
- o Column Chart profit by product

Regional Analysis:

- Map Visualization Sales by Region
- Bar Chart State-wise Sales and Profit
- KPI Card region having high sales

• Product Performance:

- Bar Chart Top Products by Sales
- Pie/Donut Chart Total sales By Profit
- o KPI Card Least/high selling Product
- o Metrix/Table products,total sales,profit,unit sold,profit per unit

• Retailer Analysis:

- o Column Chart Sales by Retailer
- o KPI Comparison Retailer Producing Most Profir
- o Pie chart retailer by proft margin
- Guage Total units sold by retailer

6. Interactivity

The Power BI dashboard provides the following interactive features:

- Cross-filtering between visuals for dynamic insights.
- Drill-down functionality from Region → State → City → Product.
- Hierarchical date navigation (Year → Quarter → Month → Day).
- Tooltip details on hover for all visuals.

7. Calculations / Measures

```
Key DAX measures used in Power BI include:
Calculate Table (Created using dax):-
   Calender =
 VAR MinDate =
   CALCULATE(MIN(Sales[Invoice Date]), ALL(Sales))
 VAR MaxDate =
   CALCULATE(MAX(Sales[Invoice Date]),ALL(Sales))
 RETURN
 ADDCOLUMNS(
    CALENDAR(MinDate, MaxDate),
    "Year", YEAR([Date]),
    "Month Number", MONTH([Date]),
    "Month Name", FORMAT([Date], "MMMM"),
    "Quarter","Q" & FORMAT([Date],"Q"),
    "Day", DAY(DAY([Date])
))
Sale Table:-
    • Total Sales = SUM('Data'[Total Sales])

    Total Profit = SUM('Data'[Operating Profit])

       Profit Margin (%) = DIVIDE([Total Profit], [Total Sales])

    Average Price per Unit = AVERAGE('Data'[Price per Unit])

    • Total Units Sold = SUM('Data'[Units Sold])

    Profit per unit = DIVIDE(SUM(Sales[Operating Profits]),SUM(Sales[Units Sold]))

Retailer Table =

    Profit By Region = CALCULATE([Total Profit], VALUES(Retailer[Region]))

           Region Margin = DIVIDE([Profit By Region],[Sales By Region])
           Sales By Region = CALCULATE([Total Sales], VALUES(Retailer[Region]))
```

8. Export / Reporting Needs

- Export dashboard visuals to **PDF** and **Excel** for management reports.
- Scheduled refresh of Power BI dataset (daily or weekly).
- Share live dashboard link via **Power BI Service** for executive access.
- Automated email subscription reports to stakeholders.

9. Notes / Special Instructions

- Ensure date format (YYYY-MM-DD) is consistent in the dataset before Power BI import.
- Validate **relationships** between tables if future data sources are added.
- Maintain uniform naming conventions for **regions**, **products**, **and retailers**.
- Dashboard should maintain **responsive layout** across desktop and Power BI web view.
- Apply data privacy and role-based access controls when shared via Power BI Service.