**Walmart Data Analysis Documentation**

**Overview**

This document provides a comprehensive overview of the analysis conducted using the Walmart dataset, named **Walmart\_data**. The analysis was performed using Python and presented in a Jupyter notebook titled **walmart-case-study.ipynb.** Additionally, a PDF version of the notebook is available as **walmart-case-study.pdf.** All relevant documents, including the dataset and analysis outputs, are hosted on GitHub.

**Dataset**

* **Dataset Name**: Walmart\_data
* **Description**: The dataset contains various sales-related metrics for Walmart stores, including sales figures, store Perfomance, product category wise sales.

**Analysis Tools**

* **Primary Analysis Tool**: Python (Jupyter Notebook)
* **Visualization Tool**: Power BI

**Notebook Details**

* **Notebook Name**: **walmart-case-study.ipynb**
* **PDF Export**: **walmart-case-study.pdf**

**Key Analyses Conducted**

1. **Data Cleaning and Preparation**
   * Handling missing values
   * Data type conversions
   * Feature engineering (e.g., creating new columns for analysis)
2. **Descriptive Statistics**
   * Summary statistics (mean, median, mode, etc.)
   * Distribution analysis of sales across different categories.
3. **Comparative Analysis**
   * Analysis of sales by product category
4. **Visualization**
   * Charts and graphs generated using libraries like Matplotlib and Seaborn to visualize sales trends, distributions, and comparisons.

**Power BI Dashboard**

A Power BI dashboard has been created to provide interactive visualizations of the Walmart data analysis. This dashboard includes:

* Distribution of sales by category
* Store performance comparisons
* Interactive filters for deeper insights

**GitHub Repository**

All necessary documents, including the dataset, Jupyter notebook, PDF, and Power BI dashboard, can be accessed in the GitHub repository:

GitHub Link *(https://github.com/abinash25/Walmart\_CaseStudy)*

**Conclusion**

The analysis of the Walmart dataset provides valuable insights into sales patterns, store performance, and product category trends. The results can inform business strategies and decision-making processes. For further details, refer to the notebook and Power BI dashboard.