E-commerce Sales Analysis Dashboard

Overview

Welcome to the E-

commerce Sales Analysis Dashboard project. This comprehensive project showcases the power of data visualization using Power BI, focusing on e-

commerce sales data. It provides insightful analyses and interactive visualizations to help underst and sales performance, customer behavior, and product trends.

Project Learnings

- **Interactive Dashboard Creation**: Developed an engaging dashboard to track and analyz e e-commerce sales data.
- Advanced Visualizations: Utilized various types of visualizations like bar charts, pie charts, scatter plots, and more for effective data representation.
- Complex Parameters and Filters: Created dynamic parameters and customized filters to enable in-depth data exploration.
- **Data Manipulation**: Performed calculations and data manipulations to provide actionable insights.

Key Metrics

• Sum of Amount: 438K

• **Sum of Profit**: 37K

• Sum of Quantity: 5615

• Sum of AOV (Average Order Value): 121K

Insights

State-

wise Amounts: Maharashtra leads with 102K, followed by Madhya Pradesh, Uttar Prade sh, and Delhi.

Category-

wise Quantity: Clothing accounts for 63%, followed by Electronics and Furniture.

- Monthly Profit Trends: Peaks in January and November with a significant drop in June.
- Top Customers by Amount: Harivansh, Madhav, Madan Mohan, and Shiva.
- **Payment Mode Distribution**: COD leads at 44%, followed by UPI, Debit, Credit Card, a nd EMI.
- Sub-

Category Profit Leaders: Printers and Bookcases are the top profit contributors, followe d by Sarees, Accessories, and Tables.

Database Schema

The database schema consists of two main tables, Orders and Details, connected by a one-to-many relationship based on the Order ID.

Orders Table:

• order_id: INT, Primary Key

• date: DATE, Not Null

• **time**: TIME, Not Null

• customer_name: TEXT

• state: TEXT

• city: TEXT

Details Table:

• order_details_id: INT, Primary Key

• **order_id**: INT, Foreign Key references orders(order_id)

• pizza id: VARCHAR(50), Foreign Key references pizzas(pizza id)

• quantity: BIGINT

• amount: DOUBLE

• aov: DOUBLE

category: TEXT

• payment_mode: TEXT

• **profit**: DOUBLE