Sales Insights - AtliQ Hardware Project Report

Name: Sumaiya Mohammed Hanif

Company: AtliQ Hardware (fictional company by Codebasics)

Tools Used: MySQL, Power BI

Skills Applied: SQL querying, data cleaning, data modeling, dashboard building,

business analysis

Project Goal (Problem Statement)

AtliQ Hardware is experiencing declining sales and poor visibility into their product and regional performance. Senior executives lack a centralized system to monitor **revenue trends**, **top-performing products**, and **market segments**.

Goal: Build an automated, interactive **Sales Insights Dashboard** that helps management track KPIs and make data-driven decisions.

Data Collection & Sources

- The data is belonging to an imaginary hardware company named AtliQ
 Hardware, managed by the "falcons team.
- Data is provided in SQL dump format from the Codebasics YouTube channel.
- Contains multiple tables: markets, products, dates, customers transactions.
- Data mimics real-world business operations of a fictional company: AtliQ
 Hardware.
- Source: Codebasics

Workflow steps followed:

- 1. Imported SQL dump into MySQL Workbench under the sales database
- 2. Performed SQL analysis: wrote queries
- 3. Connected Power BI to MySQL via ODBC DSN
- 4. Performed ETL in Power Query: Filter out rows, Removed unwanted data, Added column
- 5. Modeled relationships between tables and built DAX measures (e.g. Revenue LY, Contribution %)

6. Designed dashboard visuals across three pages: Key Insights, Profit Analysis, Performance Insights

Dashboard Design & KPIs

The Metrics implemented:

- 1. Page: Key Insights
 - o Total Revenue (₹985M)
 - Sales Quantity (2 M units)
 - o Revenue by Market
 - Sales Quantity by Market
 - o Revenue Trend over time
 - o Top Customers (Brick & Mortar vs E-Commerce)
 - o Top Products by revenue
 - Year-over-Year Growth %
 - o Sales by Region, Segment, and Manufacturer
- 2. Page: Profit Analysis
 - Profit Margin %
 - Profit Margin Contribution % by market
 - o Revenue Contribution % by market
 - o Profit % by Market
 - o Table of customer-wise Revenue, Contribution %, Profit Margin
- 3. Page: Performance Insights
 - Profit Target slider & deviation (Target Diff)
 - Combined chart: Revenue, Revenue LY, Profit Margin %
 - Profit target vs actual by date/region
 - o Performance labels by region

Features:

Dynamic filters by Year, Region, Product Category

- Interactive visuals: Bar, Line, KPIs
- Clean, corporate design layout

Key Insights & Findings

- Region A and Product X consistently drive the highest revenue
- Certain markets show declining YoY growth need targeted promotions
- Manufacturer Y has low sales but high production needs reevaluation
- Sales peak in Q4 seasonal marketing might be effective
- One segment had 0% YoY growth, signaling a red flag
- Top Regions: Delhi NCR and Mumbai generate bulk of revenue
- - North Bengaluru market shows -20.8% profit deviation → targeting needed
- Focus on high-margin customers and top-performing products
- Seasonal quarterly trends suggest promotional planning in Q4
- Recommend deeper review of underperforming markets & customer segmentation

Recommendations

- Focus marketing efforts on high-performing products and regions
- Investigate underperforming segments and manufacturers
- Develop quarterly campaigns to boost off-season sales
- Expand into growing markets showing positive trends

Conclusion (STAR Format Summary)

- S (Situation): AtliQ Hardware lacked a centralized view of their sales data
- **T (Task):** Build a data-driven, interactive dashboard to analyze present and track key sales trends
- A (Action): Used MySQL to import/query data into a sales Database→ Connected to Power BI → Clean Data Perform ETL → Created measures and Built a dynamic dashboard to visualize insights

• **R (Result):** Enabled executives to make data-driven decisions with real-time insights into sales performance and drive revenue growth.

Executives can now see:

- 1. Top performing regions and customers
- 2. Markets with declining growth (e.g. North Bengaluru –20.8%)
- 3. Profit vs target trends and deviations