Database Detail Document

Overview:

This document provides a comprehensive overview of the databases utilized in the Power BI project for AtliQ Hardware. The project aims to provide insights into finance, sales, marketing, and supply chain management by leveraging data from multiple sources.

Databases Used:

1. **gdb041**
2. **gdb056**

Database Tables:

gdb041:

1. **dim_customer**:
    - Markets: 27 distinct markets (e.g., India, USA, Spain)
    - Customers: 75 distinct customers across markets
    - Platforms: Brick & Mortar, E-commerce
    - Channels: Retailer, Direct Distributors
2. **dim_market**:
    - Markets: 27 distinct markets
    - Sub-zones: 7 sub-zones
    - Regions: APAC, EU, North America, LATAM
3. **dim_product**:
    - Divisions: P & A, PC, N & S
    - Categories: 14 different categories (e.g., Internal HDD, Keyboard)
    - Variants: Different variants available for each product
4. **fact_forecast_monthly**:
    - Used for forecasting customer needs in advance
    - Denormalized for analytical work
    - Contains forecasted quantities needed by customers
5. **fact_sales_monthly**:
    - Similar to fact_forecast_monthly but with sold quantity data instead of forecasted values

gdb056:

1. **freight_cost**:
    - Details of travel costs and other expenses for each market with fiscal year information
2. **gross_price**:
    - Contains gross prices with product codes
3. **manufacturing_cost**:
    - Details of manufacturing costs with product codes and years
4. **Pre_invoice_deductions**:
    - Pre-invoice deductions percentage for each customer with year details
5. **Post_invoice_deductions**:
    - Contains post-invoice deductions and other deduction details

Utilization in Power BI Project:

- These databases and tables serve as the foundation for generating actionable insights in Power BI.
- Data from multiple sources is integrated within Power BI to create a unified view of the business.
- The insights derived from these databases enable informed decision-making across various departments at AtliQ Hardware.

Future Enhancements:

- Potential future enhancements may include expanding the database schema to incorporate additional data sources or refining existing data models for improved analytics capabilities.