

# DATASET ASSESSMENT DOCUMENT (DAD)

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## Dataset Overview

Item	Details
Dataset Title	Sales & Warranty Transaction Dataset
Domain / Theme	Retail Sales Analytics
Source	Internal transactional sales system
File Type	CSV
No. of Rows	~1,000,000+
No. of Columns	~15

## Data Structure Summary

Column Name	Data Type	Dimension / Measure	Description
Sale ID	Integer	Dimension	Unique identifier for each sales order
Sale Date	Date	Dimension	Date of transaction
Product Name	String	Dimension	Name of the product sold
Category Name	String	Dimension	Product category
Quantity	Integer	Measure	Units sold per transaction
Price	Decimal	Measure	Unit price of product
Total Revenue	Decimal	Measure	Calculated revenue (Quantity × Price)
Country / Region	String	Dimension	Sales geography
Customer ID	Integer	Dimension	Unique customer identifier
Warranty Status	String	Dimension	Claimed / Not Claimed
Claim ID	Integer	Dimension	Warranty claim reference
Claim Date	Date	Dimension	Date when claim was raised
Claim Reason	String	Dimension	Reason for warranty claim

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## Data Quality Assessment

ASPECT CHECKED	OBSERVATIONS	ACTION NEEDED
MISSING DATA	Some records missing claim details for non-claimed sales	Acceptable (expected behavior)
DUPLICATES	No duplicate Sale IDs found	No action required
OUTLIERS	High revenue values for premium products	Valid business scenario
INCORRECT DATA TYPES	Date fields correctly stored as Date	No action required
CONSISTENCY ISSUES	Category naming standardized	No action required

## Key Metrics & KPIs Identified (Initial)

KPI	Why It Matters
Total Revenue	Measures overall business performance
Total Orders	Indicates sales volume
Total Quantity Sold	Tracks demand
Average Order Value (AOV)	Evaluates order quality
Average Selling Price (ASP)	Pricing effectiveness
Warranty Claim Rate	Measures product quality issues
Total Warranty Claims	Operational risk indicator

## Assumptions / Risks

- Warranty claims are linked to valid Sale IDs
- Revenue values are pre-tax and exclude discounts
- Dataset represents historical data only (no real-time updates)
- Warranty claim rate may vary by time period and product mix