# Recomart Data Quality Report

Generated: 2026-01-21 09:45:06

## Executive Summary

| Dataset | Rows | Missing (Total) | Duplicates | GE Status |
|---|---|---|---|---|
| product_catalog | 1010 | 30 | 0 | Disabled |
| raw_customers | 40 | 20 | 0 | Disabled |
| raw_products | 1000 | 0 | 0 | Disabled |
| external_metadata | 549 | 0 | N/A | Disabled |
| transactions | 538 | 0 | 175 | Disabled |
| clickstream | 1260 | 355 | N/A | Disabled |

## Dataset Details: product_catalog

### Schema & Missing Values

| Check | Result |
|---|---|
| Column: product_name | Missing Count: 10 |
| Column: category | Missing Count: 10 |
| Column: base_price | Missing Count: 10 |

### Data Quality Rules Violations

| Column | Issue Type | Details |
|---|---|---|
| base_price | range | issues: [] |
| discount_percent | range | issues: [] |
| avg_rating | range | issues: [] |
| return_rate_percent | range | issues: [] |
| profit_margin_percent | range | issues: [] |
| shelf_life_days | range | issues: [] |
| is_perishable | categorical | invalid_count: 0, examples: [] |
| launch_date | date_format | bad_count: 0, bad_indices: [] |

## Dataset Details: raw_customers

### Schema & Missing Values

| Check | Result |
|---|---|
| Column: age | Missing Count: 10 |
| Column: gender | Missing Count: 10 |

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## Data Quality Rules Violations

| Column | Issue Type | Details |
|---|---|---|
| age | range | issues: [] |
| gender | categorical | invalid_count: 0, examples: [] |

## Dataset Details: raw_products

### Schema & Missing Values

| Check | Result |
|---|---|
| Missing Values | None detected |

## Dataset Details: external_metadata

### Schema & Missing Values

| Check | Result |
|---|---|
| Missing Values | None detected |

### Data Quality Rules Violations

| Column | Issue Type | Details |
|---|---|---|
| sentiment_score | range | issues: [] |
| popularity_index | range | issues: [] |
| last_updated | date_format | bad_count: 0, bad_indices: [] |

## Dataset Details: transactions

### Schema & Missing Values

| Check | Result |
|---|---|
| Missing Values | None detected |

### Data Quality Rules Violations

| Column | Issue Type | Details |
|---|---|---|
| quantity | range | issues: [] |
| txn_date | date_format | bad_count: 0, bad_indices: [] |

## Dataset Details: clickstream

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## Schema & Missing Values

| Check | Result |
|---|---|
| Schema Warning | Extra columns: season, day_of_week, hour_of_day, is_trending, dwell_time |
| Column: dwell_time | Missing Count: 355 |

## Data Quality Rules Violations

| Column | Issue Type | Details |
|---|---|---|
| event_strength | range | issues: [] |
| event_type | categorical | invalid_count: 0, examples: [] |
| device | categorical | invalid_count: 0, examples: [] |

## Cross-Dataset Integrity

| Relationship Check | Status | Details |
|---|---|---|
| txn_customer_fk | PASS | All references valid |
| txn_product_fk_catalog | PASS | All references valid |
| meta_product_fk | PASS | All references valid |