Email Conversation

Subject: Data Quality Observations and Insights from Recent Analysis

Hi [Team/Product/Business Leader],

I've completed an initial analysis of the provided datasets (Products, Transactions, and Users). Below is a summary of the findings, insights, and a few questions that need clarification to proceed effectively:

Key Data Quality Issues

1. Incomplete Date Coverage:

- o All transactions in the PURCHASE_DATE column are from 2024. There is no data from prior or subsequent years, which prevents us from calculating year-over-year (YoY) growth.
- Outstanding Question: Does Fetch have data for other years, or was this a limitation of the dataset provided?

2. Missing or Null Data:

- o Some columns, like FINAL_SALE in transactions, contain null or invalid entries that could impact the accuracy of revenue calculations.
- Outstanding Question: Can we confirm if these null values are expected or if data needs to be cleaned further?

Interesting Trend in the Data

• Leading Brand in Dips & Salsa:

o The analysis reveals that *Marketside* is the top-selling brand in the "Dips & Salsa" category, with over \$165,000 in sales. This indicates strong customer preference for this brand in this category, which could guide future partnership or promotion strategies.

Request for Action

To continue with deeper analysis and provide more actionable insights:

1. Additional Data Needed:

- O Could we get datasets spanning multiple years for transactions to better analyze Fetch's growth over time?
- O Clarification on null values in the FINAL_SALE column. Should there be excluded or imputed with average values?

2. Clarification on Business Goals:

o Are there specific categories, brands, or customer segments you'd like us to focus on for future insights?

Please let me know how you'd like to proceed or if a follow-up meeting would be helpful to discuss these findings in detail.

Best regards, Ranganayaki Chennuri