Data Collection and Preprocessing Phase

Date	13 Feb 2026
Team ID	LTVIP2026TMIDS61400
Project Title	Cosmetic Insights: Navigating Cosmetics Trends and Consumer Insights with Tableau
Maximum Marks	3 Marks

Data Quality Report Template:

Data Source	Data Quality Issue	Severity	Resolution Plan
Cosmetics datasets	Inconsistent Data Types	Moderate	• **Price:** Should ideally be numeric (e.g., float or integer). While it appears to be numeric, it's worth confirming that there are no non-numeric characters present. • **Rank:** Should be numeric (float or decimal) to represent rating values. Verify that all values are within a reasonable range (e.g., 1-5 or 0-5). • **Combination, Dry, Normal, Oily, Sensitive:** These are likely intended to be boolean (True/False or 1/0). The data appears consistent with 1/0, but it should be explicitly verified.
Cosmetics datasets	Missing Values and Incomplete Data	Low	• **Ingredients:** The "Ingredients" column is truncated in many entries (e.g., "Algae (Sea...", "Galactomy...", "Water, Dic..."). This makes it difficult to fully understand the product's composition. • **Brand Names:** Some brand names are abbreviated (e.g., "DRUNK EL" instead of "Drunk Elephant"). Consistency is needed.
Cosmetics datasets	Data Inconsistency and Typos	High	• **Inconsistent Capitalization:** Brand and product names show inconsistent capitalization (e.g., "LA MER" vs. "la mer" or "Truth Seru" vs. "Truth Serum").

Cosmetics datasets	Data Validation	High	• **Verify Rank Values:** Ensure all ranks are within the expected range. • **Confirm Data Types:** Explicitly define the data types for each column (numeric, boolean, string).
Cosmetics datasets	Data Cleaning	High	• **Standardize Brand and Product Names:** Ensure consistent capitalization and full names. • **Correct Typos:** Fix errors like "Bι" and ensure consistent spelling. • **Complete Ingredient Lists:** If possible, obtain the full ingredient lists for each product. • **Remove Special Characters:** Replace or remove special characters as needed.