



Data Collection and Preprocessing Phase

Date	17 March 2025
Team ID	LTVIP2025TMI26722
Project Title	Toy Craft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	10 Marks

Data Exploration and Preprocessing

Section	Description
Data Overview	The dataset consists of sales data, customer demographics, and market research reports from various sources, including CSV files, Excel spreadsheets, and JSON files.
Data Cleaning	 -Impute missing values using mean, median, or mode. - Remove duplicate records based on unique identifiers. - Correct data entry errors and inconsistencies.
Data Transformation	Filtering: Filter out irrelevant data, such as cancelled orders or test data. - Sorting: Sort data by date, customer ID, or product category. - Pivoting: Pivot data to create summary tables for analysis. - Calculated fields: Create calculated fields for metrics such as total sales, average order value, and customer lifetime value.
Data Type Conversion	Convert date fields to date time format Convert numeric fields to integer or float format Convert categorical fields to string format.
Column Splitting and Merging	-Split customer name column into first name and last name columns Merge address columns into a single address column.
Data Modeling	 Define relationships between sales, customer, and product tables. Create a star schema for data warehousing.





Save Processed Data	 Save cleaned and processed data to a CSV file or database. Document data processing steps and transformations for future reference.