

Ksr Datavizon

Business Rules for Data Cleaning

Customer Master Dataset

1. Remove Duplicates:

o Drop exact duplicate rows based on all columns.

2. Handle Missing Values:

- Drop rows with missing cust_id, name, or address if essential.
- o Impute missing city, state, and zipcode using mode or external reference.

3. Zipcode Normalization:

- Ensure all zipcodes are 5 digits (U.S. format).
- Remove or correct zipcodes with 4 or 6 digits.

4. Text Cleanup:

- Strip extra spaces in name, address, city, and state.
- o Title case or proper case the text fields.

Sales Dataset

1. Remove Duplicates:

o Drop duplicate sales entries.

2. Fix Missing Dates:

- If viewed_datetime is missing, drop the row.
- o If cart_added_datetime or purchased_datetime is missing, impute using average time gap from viewed_datetime.

3. Fix Negative Values:

- Remove or replace negative quantity or unit_price.
- Replace with median/mean or flag for further analysis.

4. Category & Item Cleanup:

- · Remove rows with null item or category.
- Standardize spelling or naming conventions.

5. Datetime Validation:

• Ensure the sequence: viewed_datetime < cart_added_datetime < purchased_datetime.



