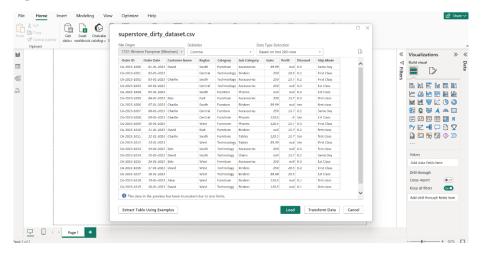
Perform the Extraction Transformation and Loading (ETL) process to construct the database in the SQL server / Power BI.

STEP 1: EXTRACT - Load the Dataset into Power BI

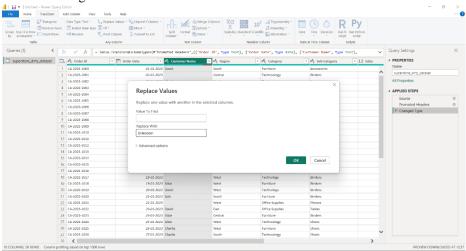
- 1. Open Power BI Desktop.
- 2. Click on Home \rightarrow Get Data \rightarrow Text/CSV.
- 3. Select the file: superstore dirty dataset.csv.
- 4. In the preview window, click Load.



STEP 2: TRANSFORM – Clean the Data in Power Query Editor

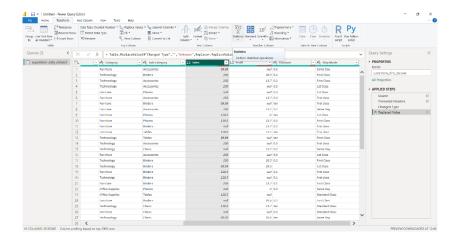
Click Transform Data (from Home tab) to enter the Power Query Editor.

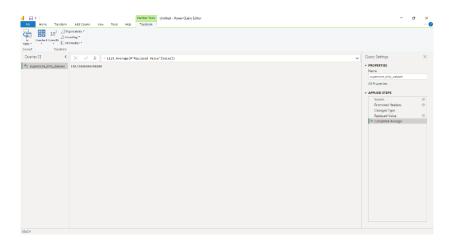
A. Handle missing values:

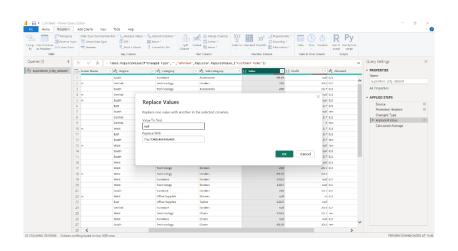


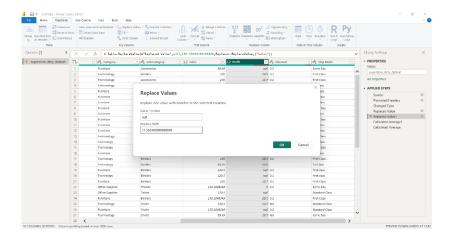
B. Handle Null values:

- Replace null with **mean** of the column.
- Go to tannsfrom → Under Statistics tab select **average.** The mean of that colum will be calculated.
- Select column \rightarrow Transform tab \rightarrow Replace Values \rightarrow Replace null with the calculated mean.





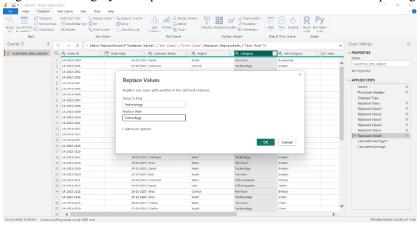




C. Fix Text Errors and Inconsistencies:

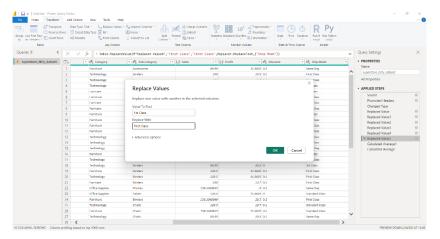
1. Category Column (fix typos like "Technoology", "Furnture"):

- Replace "Technology" → "Technology"
- Replace "Furnture" → "Furniture"
- Method:
- Right-click Category → Replace Values → Enter incorrect & correct spelling



2. Ship Mode Column:

- Standardize formats:
- Replace "1st Class" and "first class" → "First Class"
- Right-click → Replace Values (repeat for each inconsistency)



D. Fix Data Types

- 1. Discount Column:
 - Some values like "ten" or null are not numeric.
 - Step 1: Replace "ten" with 0.1 or your desired value.
 - Step 2: Change column type to Decimal Number
 - Click on the column \rightarrow Data Type \rightarrow Decimal Number

