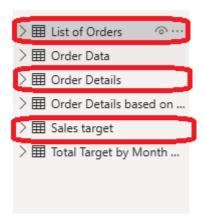
Power BI Assignment 1 - Data Transformation & Data Modeling

Import Data:

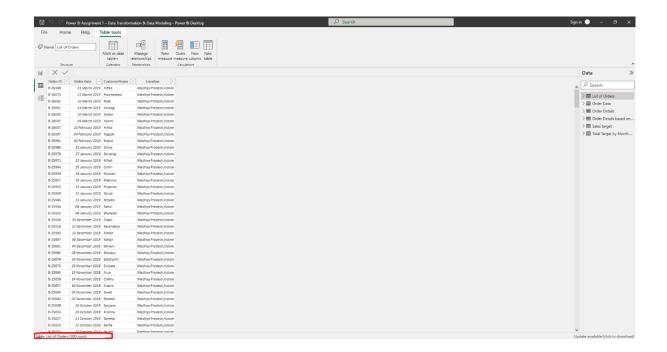


Restrict the "List of Orders" table to only the first 500 rows.

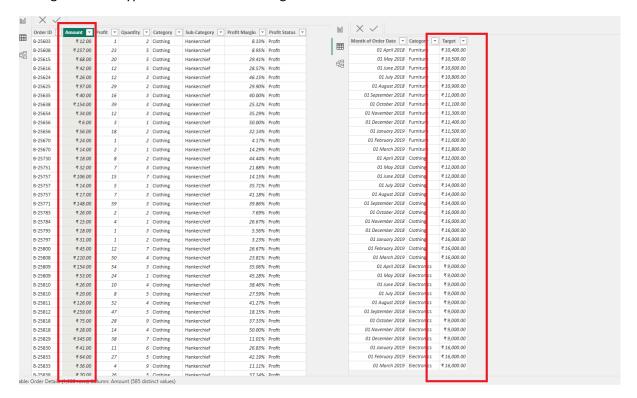
Ensure the "Order Date" column in the "List of Orders" table is set to data type 'Date'.

Format the "CustomerName" column into proper case, ensuring consistent capitalization for each word.

Merge the "State" and "City" columns to create a new column named "Location" in the format 'City, State'.

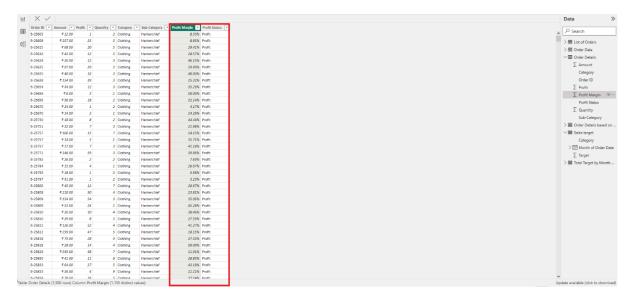


Change the data type of "Amount" and "Target" columns to 'Fixed Decimal Number'.

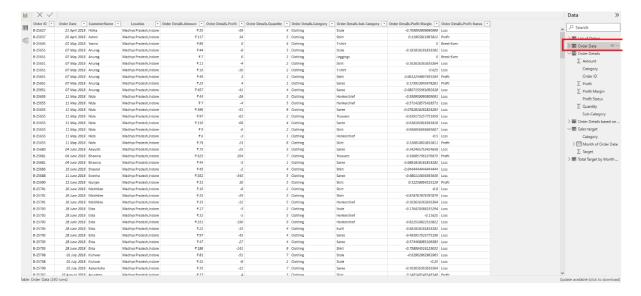


Create a new custom column named "Profit Margin" as the percentage of "Profit" divided by "Amount".

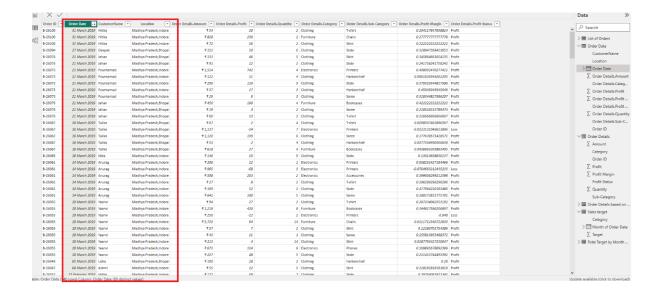
Add a new conditional column named "Profit Status" based on the values in the "Profit" column. The conditions are as follows: if the profit is less than 0, the label should be "Loss"; if the profit equals 0, the label should be "Break-Even"; and if the profit is greater than 0, the label should be "Profit".



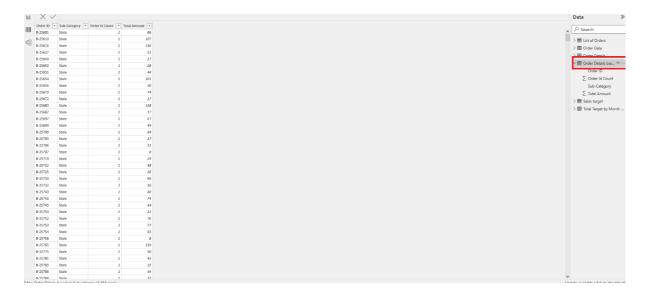
Merge the "List of Orders" and "Order Details" tables into a new single table named "Orders Data" based on the "Order ID" relationship.



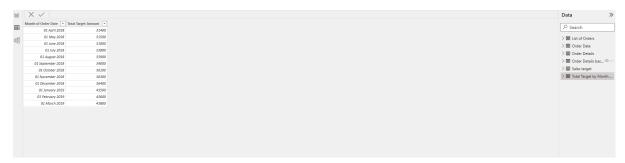
- ◆ Sort the orders by Order Date in descending order to analyze recent trends.
- ◆ Filter the orders to focus only on a specific state (e.g., Tamil Nadu) for regional analysis.



Duplicate the "Order Details" table and calculate the count of each Order ID, average profit by Category or total amount by Sub-Category.



• Duplicate the "Sales Target" table and aggregate the total target amount by Month of Order Date.



- Establish a relationship between the "List of Orders" and "Order Details" tables using the 'Order ID' column.
- Build a relationship between the "Order Details" and "Sales Target" tables based on the 'Category' column. Click "Manage relationships" and ensure this relationship is active.

