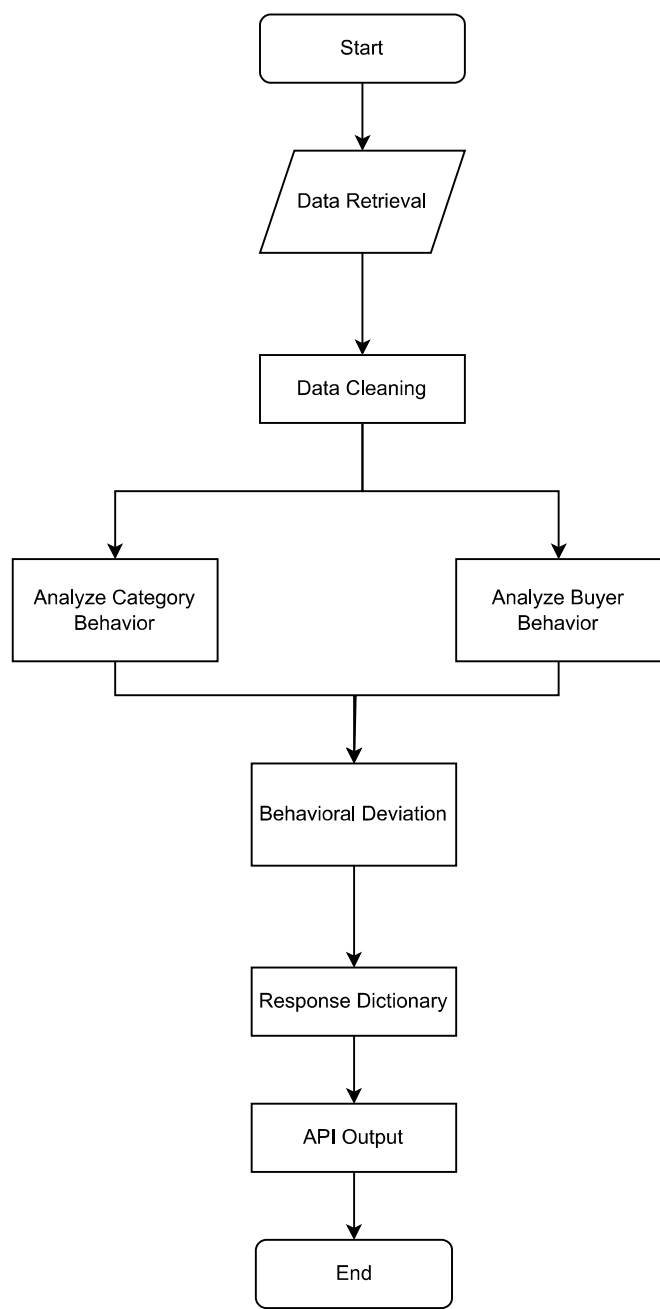
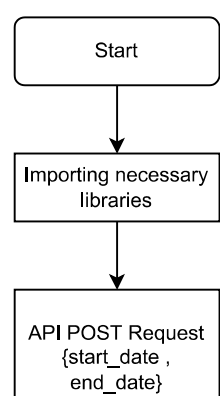


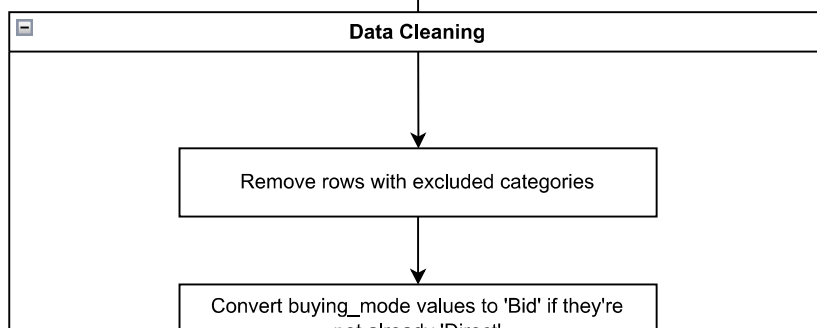
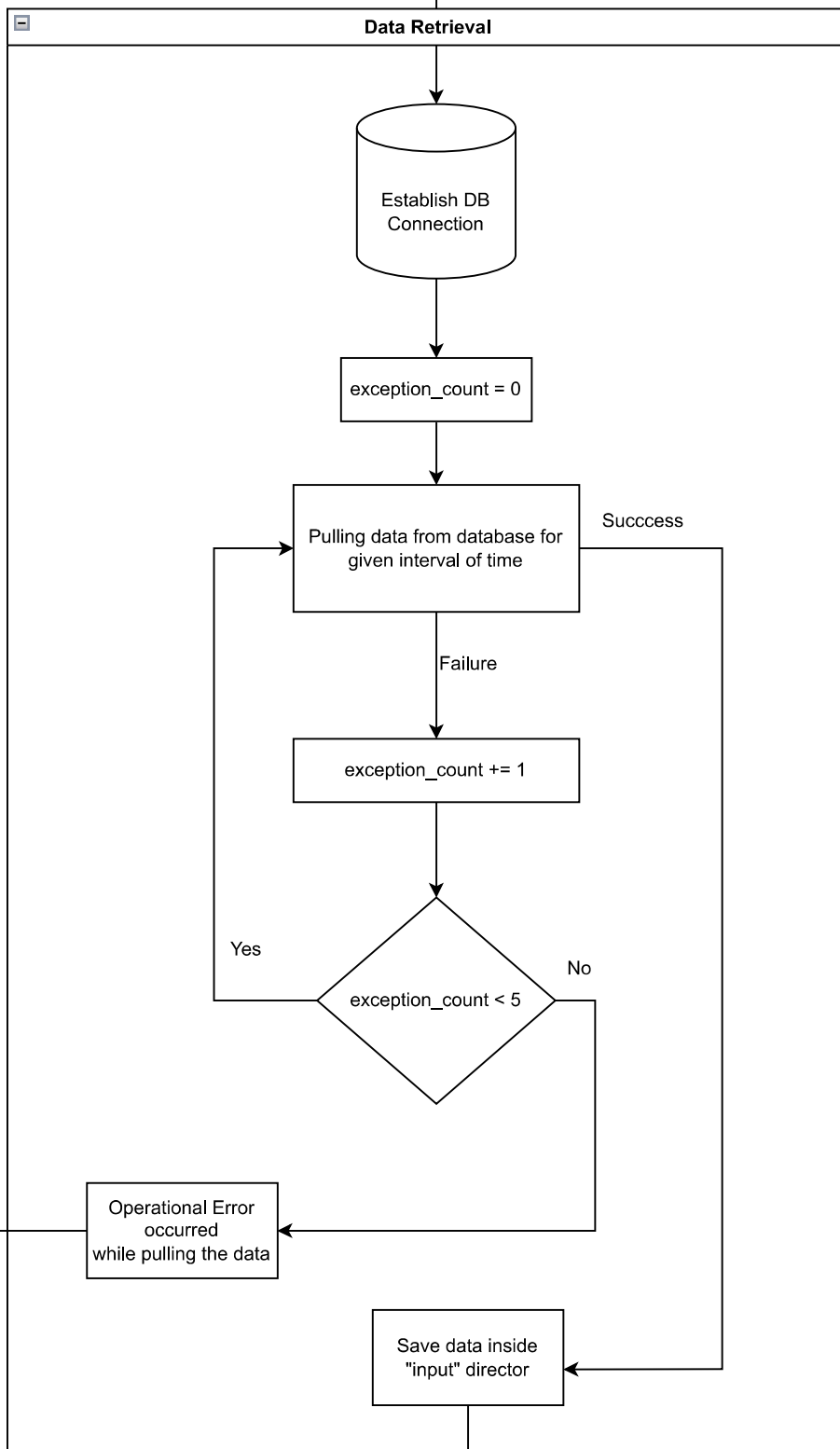


AoA\_FD



AoA\_Detailed\_FD





Return the cleaned data

data

### Analyze Buyer Behavior

DataFrame "data" is grouped by three columns: buyer\_id, category\_id, and buying\_mode, and several aggregation functions are applied to the order\_id, order\_amount, consignee\_id, and seller\_id columns using the agg method.

The resulting DataFrame is then reset so that the grouping columns become regular columns

A new DataFrame is created by pivoting the previous DataFrame on the buyer\_id and category\_id columns, and with buying\_mode as the columns to pivot on.

The resulting pivoted DataFrame is then filled with 0s for missing values, and the column names are modified to have more descriptive names.

A new column is created by summing the #orders\_bid and #orders\_DP columns, and a new column is created by calculating the percentage of orders that were made in DP mode.

Finally, a subset of the pivoted DataFrame is returned, containing the buyer\_id, category\_id, and several other columns related to DP mode orders.

buyer\_behaviour

### Analyze Category Behavior

The input DataFrame is grouped by three columns: category\_id, and buying\_mode, and aggregation function is applied to the order\_id using the agg method.

The resulting DataFrame is then reset so that the grouping columns become regular columns

A new DataFrame is created by pivoting the previous DataFrame on the category\_id column, and with buying\_mode as the columns to pivot on.

The resulting pivoted DataFrame is then filled with 0s for missing values, and the column names are modified to have more descriptive names.

A new column is created by summing the #orders\_bid and #orders\_DP columns, and a new column is created by calculating the percentage of orders that were made in DP mode.

Finally, a subset of the pivoted DataFrame is returned, containing the category\_id, and other column related to DP mode orders.

category\_behaviour

### Behavioral Deviation

Merge two dataframe by inner join based on category id

A new column is created by subtracting the %\_DP\_cat and %\_DP\_buyer columns

A new flag column is created and labeled as -1 if #orders\_DP and diff are below the specified threshold else labeled as 0.

return subset of data