**Product Requirements Document (PRD)**

**Title:** Monthly Summary Report Generator in Excel VBA

**Purpose:** The purpose of this macro is to generate a monthly financial summary report based on a primary dataset (“Sheet1”) and several auxiliary mapping and exclusion sheets. The macro reads transaction-level financial data and outputs a formatted, sorted, and filtered monthly summary with various mappings applied.

**Sheets Involved:**

1. **Sheet1 (Source Data)** - Contains raw transaction data with columns: | Column | Header | Description | |——–|——————|—————————————–| | A | Fiscal Year | Fiscal year of the transaction | | B | Date | Date of the transaction (used for month)| | C | Parent Code | Original parent code | | D | Description | Description of the line item | | E | Account Code | Account number | | G | Amount | Monetary value | | I | Fund Code | Financial fund identifier |
2. **MappingAccount** - Maps (Fund, Account) pair to SCO Account (Adjusted Parent Code) | Fund | Account | SCO Account | |——|———|————-| | 0044 | 12345 | 600 |
3. **MappingFund** - Maps original Fund to mapped Fund (no header) | Fund | Mapped Fund | |——|————-| | 0044 | 1200 |
4. **ExcludeFund** - List of funds to be excluded (no header) | Fund | |——| | 3001 |
5. **ExcludeAccounts** - List of accounts to be excluded (no header) | Account | |———| | 5555 |
6. **Order** - Custom order for funds (no header). Funds listed here will appear in order in the final report, others will appear after. | Fund | |——| | 1200 | | 1300 |

**Report Format (Output):** - The report is generated in “Sheet2” with the following columns (dynamic based on available months): | Fund | Description | Parent Code | Adjusted Parent | Jan | Feb | … | Dec | Total | FY | - The month columns will appear only if those months exist in the source data. - Amount columns (months and Total) will be formatted as numbers with two decimal places and comma separators. - Rows where total is negative will be highlighted in light red (RGB(255,199,206)).

**Transformation Logic:**

1. **Fund and Account Mapping:**
   * First, check MappingAccount for a match on (Fund, Account) and use SCO Account as Adjusted Parent if found.
   * Then check MappingFund to override the fund value if applicable.

* **Example:** Source: | Fund | Account | Parent | |——|———|——–| | 0044 | 12345 | 81141 |
* MappingAccount: | 0044 | 12345 | 600 |
* MappingFund: | 0044 | 1200 |
* Result: | Fund | Adjusted Parent | |——|——————| | 1200 | 600 |

1. **Exclusion:**
   * Skip any row where the Fund (after mapping) is in ExcludeFund.
   * Skip any row where the Account is in ExcludeAccounts.
2. **Monthly Aggregation:**
   * Group data by: Mapped Fund, Description, Parent Code, Fiscal Year.
   * Sum values per month based on the Date field (column B).
   * Add a Total column to hold the row sum.
3. **Sorting:**
   * Sort first by the fund order as defined in the Order sheet.
   * Then by Fund alphabetically, and then by Parent Code numerically.
   * Funds not in Order will appear at the bottom of the report.

**Additional Notes:** - If Sheet2 does not exist, it will be created. - If Sheet2 exists, it will be cleared before writing the new report. - Number formatting is applied only to columns starting from the first month to the Total column. - The header row is bold. - All columns are auto-fit at the end of the macro.

**Macro Trigger:** - The macro is to be manually run via the GenerateMonthlySummaryOrdered subroutine.

**Future Enhancements (Not yet implemented):** - Generating a new workbook with the filename CL\_REV\_MMDDYYYY.xlsx (currently this writes to Sheet2 only). - Making exclusion/mapping dynamic via user prompt.

This PRD captures the complete logic of your macro and should enable accurate reproduction or expansion of the functionality by other teams or automated agents.