

## Record to Report Iteration #6

This is the sixth iteration of documenting a record to report process. The objective is to flow information from the journal entries of an accounting system into a financial report. There are two approaches to achieving this objective. The first approach involves adding needed information completely external to the accounting system. The second approach involves adding needed information into the accounting system.

The first thing necessary is a chart of accounts which drives the accounting system and transaction information. Here is a typical chart of accounts of a traditional accounting system<sup>1</sup>:

| FullAccount | AccountDescription                      | Balance | Type      | Type2       |
|-------------|---|---------|-----------|-------------|
| 000-1100-00 | Wells Fargo General Checking Account    | Debit   | Real      | Assets      |
| 000-1200-00 | Trade Accounts Receivable               | Debit   | Real      | Assets      |
| 000-1300-00 | Inventories                             | Debit   | Real      | Assets      |
| 000-1500-00 | Equipment                               | Debit   | Real      | Assets      |
| 000-2150-00 | Trade Accounts Payable                  | Credit  | Real      | Liabilities |
| 000-2160-00 | Accrued interest and taxes              | Credit  | Real      | Liabilities |
| 000-2300-00 | Long Term Debt - Net of Current Portion | Credit  | Real      | Liabilities |
| 000-3100-00 | Paid in capital                         | Credit  | Real      | Equity      |
| 000-3200-00 | Retained Earnings                       | Credit  | Real      | Equity      |
| 000-4100-00 | Revenues                                | Credit  | Temporary | Revenue     |
| 000-5100-00 | Cost of Sales                           | Debit   | Temporary | Expense     |
| 000-5200-00 | Depreciation and Amortization           | Debit   | Temporary | Expense     |
| 000-5400-00 | Interest expense                        | Debit   | Temporary | Expense     |
| 000-5500-00 | Nonoperating income (expenses)          | Credit  | Temporary | Expense     |
| 000-6100-00 | Income Tax Expense (Benefit)            | Debit   | Temporary | Expense     |

Here is that same traditional chart of accounts with two pieces of additional information added to supplement the information provided by the traditional chart of accounts:

| FullAccount | AccountDescription                      | XBRLConcept (LinItem)            | Balance | Type      | Type2       | Type3                                    |
|-------------|---|----------------------------------|---------|-----------|-------------|--|
| 000-1100-00 | Wells Fargo General Checking Account    | mini:CashAndCashEquivalents      | Debit   | Real      | Assets      | CurrentAssets                            |
| 000-1200-00 | Trade Accounts Receivable               | mini:Receivables                 | Debit   | Real      | Assets      | CurrentAssets                            |
| 000-1300-00 | Inventories                             | mini:Inventories                 | Debit   | Real      | Assets      | CurrentAssets                            |
| 000-1500-00 | Equipment                               | mini:PropertyPlantAndEquipment   | Debit   | Real      | Assets      | NoncurrentAssets                         |
| 000-2150-00 | Trade Accounts Payable                  | mini:AccountsPayable             | Credit  | Real      | Liabilities | CurrentLiabilities                       |
| 000-2160-00 | Accrued interest and taxes              | mini:AccruedExpenses             | Credit  | Real      | Liabilities | CurrentLiabilities                       |
| 000-2300-00 | Long Term Debt - Net of Current Portion | mini:LongtermDebt                | Credit  | Real      | Liabilities | NoncurrentLiabilities                    |
| 000-3100-00 | Paid in capital                         | mini:PaidInCapital               | Credit  | Real      | Equity      | EquityAttributableToControllingInterests |
| 000-3200-00 | Retained Earnings                       | mini:RetainedEarnings            | Credit  | Real      | Equity      | EquityAttributableToControllingInterests |
| 000-4100-00 | Revenues                                | mini:Sales                       | Credit  | Temporary | Revenue     | Revenues                                 |
| 000-5100-00 | Cost of Sales                           | mini:CostsOfSales                | Debit   | Temporary | Expense     | OperatingExpenses                        |
| 000-5200-00 | Depreciation and Amortization           | mini:DepreciationAndAmortization | Debit   | Temporary | Expense     | OperatingExpenses                        |
| 000-5400-00 | Interest expense                        | mini:InterestExpense             | Debit   | Temporary | Expense     | NonoperatingExpenses                     |
| 000-5500-00 | Nonoperating income (expenses)          | mini:NonoperatingIncomeExpenses  | Credit  | Temporary | Expense     | NonoperatingExpenses                     |
| 000-6100-00 | Income Tax Expense (Benefit)            | mini:IncomeTaxExpenseBenefit     | Debit   | Temporary | Expense     | NonoperatingExpenses                     |

<sup>1</sup> ZIP archive containing Excel file with spreadsheets of screen shots that are easier to read, <http://xbrlsite.azurewebsites.net/2024/prototypes/lemonade-stand/MetadataSummary.zip>

The first supplemental piece of information is the XBRL concept or line item which would contain the account within a financial report. The second is the “branch” or “subtotal” within which the report line item would be included.

Traditional accounting systems cannot generate a complete set of financial statements. They can generate a balance sheet and an income statement; but not a proper statement of cash flows or statement of changes in equity.

In order to generate all four statements, a traditional accounting system needs to be supplemented to include what I call “roll forward grouping codes” or business event codes. This information (a) helps you understand the roll forwards of real accounts and (b) provide the necessary information that enables an accounting system to generated a statement of cash flows and a statement of changes in equity.

| RollForwardGroupingCode                                 | RollForwardGroupingCodeLabel                        | Description   |
|---|---|---|
| mini:ProceedsFromCollectionOfReceivables                | Collection of accounts receivable                   | Cash is received, posted to check register as a deposit.  |
| mini:PaymentOfAccountsPayable                           | Payment of accounts payable                         | A check is written to pay an accounts payable invoice.  |
| mini:ProceedsFromAdditionalLongtermBorrowings           | Additional long term borrowings                     | A loan agreement is signed with the bank.   |
| mini:PaymentForReductionOfLongtermBorrowings            | Repayment of long term borrowings                   | A check is written to make a payment on long-term debt.   |
| mini:PaymentForCapitalAdditionsOfPropertyPlantEquipment | Capital purchases of property, plant, and equipment | Property, plant, and equipment is purchased.  |
| mini:IncreaseInReceivablesFromSalesOnAccount            | Sales   | A sales receipt is issued and recorded in the point of sale system.                                     |
| mini:CollectionOfReceivables                            | Collection of accounts receivable                   | Cash is received, posted to check register as a deposit.  |
| mini:AdditionsToAllowanceForBadDebts                    | Additions to allowance for bad debts                | An entry is made in the Excel spreadsheet that computes the allowance for bad debts.                    |
| mini:BadDebtsWrittenOff                                 | Bad debts written off                               | An accounts receivable balance is written off.  |
| mini:PurchasesInventoryForSaleOnAccount                 | Purchases of inventory for sale                     | Inventory is purchased per a PURCHASE ORDER and has been received per a bill of lading.                 |
| mini:DecreaseInInventoriesFromSales                     | Cost of sales                                       | The direct cost of an inventory item is expensed per sale of that item and issuance of a sales receipt. |
| mini:InventoryWrittenOff                                | Inventory written off                               | An inventory item is written off per physical inventory count.  |
| mini:CapitalAdditionsPropertyPlantAndEquipment          | Capital purchases of property, plant, and equipment | Property, plant, and equipment is purchased.  |
| mini:DecreaseFromDepreciationAndAmortization            | Depreciation and amortization expense               | Depreciation expense is recorded for an asset in the fixed assets ledger.                               |
| mini:PropertyPlantAndEquipmentWrittenOff                | Property, plant, and equipment written off          | An item from the fixed assets ledger is removed and written off.  |
| mini:PurchasesInventoryForSaleOnAccount                 | Purchases of inventory for sale                     | Inventory is purchased per a PURCHASE ORDER and has been received per a bill of lading.                 |
| mini:DecreaseFromPaymentAccountsPayable                 | Payment of accounts payable                         | A check is written to pay an accounts payable invoice.  |
| mini:AdditionalLongtermBorrowings                       | Additional long term borrowings                     | A loan agreement is signed with the bank.   |
| mini:RepaymentLongtermBorrowings                        | Repayment of long term borrowings                   | A check is written to make a payment on long-term debt.   |
| mini:NetIncomeLoss                                      | Net income (loss)                                   | Net income (loss) is closed to retained earnings.   |

To help use the roll forward grouping codes, the following matrix is helpful. This matrix associates a financial report line item to a set of roll forward grouping codes for that specific report line item:

| SortOrder | GeneralLedgerAccountCode                   | RollForwardGroupingCode                                 | Balance | AuditRisk | Comment                           |
|-----------|--|---|---------|-----------|-----------------------------------|
| 1         | mini:CashAndCashEquivalents                | mini:ProceedsFromCollectionOfReceivables                | Debit   | Medium    | Ties to cash receipts journal.    |
| 2         | mini:CashAndCashEquivalents                | mini:PaymentOfAccountsPayable                           | Credit  | Medium    | Ties to check register.           |
| 3         | mini:CashAndCashEquivalents                | mini:ProceedsFromAdditionalLongtermBorrowings           | Debit   | Medium    | Ties to bank statement.           |
| 4         | mini:CashAndCashEquivalents                | mini:PaymentForReductionOfLongtermBorrowings            | Credit  | Medium    | Ties to bank statement.           |
| 5         | mini:CashAndCashEquivalents                | mini:PaymentForCapitalAdditionsOfPropertyPlantEquipment | Credit  | Medium    | Ties to fixed assets ledger.      |
| 11        | mini:Receivables                           | mini:IncreaseInReceivablesFromSalesOnAccount            | Debit   | Medium    | Ties to sales journal.            |
| 12        | mini:Receivables                           | mini:CollectionOfReceivables                            | Credit  | Medium    | Ties to cash receipts journal.    |
| 13        | mini:Receivables                           | mini:AdditionsToAllowanceForBadDebts                    | Credit  | High      | Ties to supporting spreadsheet.   |
| 14        | mini:Receivables                           | mini:BadDebtsWrittenOff                                 | Credit  | High      | Ties to supporting spreadsheet.   |
| 21        | mini:Inventories                           | mini:PurchasesOfInventoryForSale                        | Debit   | Medium    | Ties to inventory ledger.         |
| 22        | mini:Inventories                           | mini:DecreaseInInventoriesFromSales                     | Credit  | Medium    | Ties to sales ledger.             |
| 23        | mini:Inventories                           | mini:InventoryWrittenOff                                | Credit  | High      | Ties to supporting spreadsheet.   |
| 31        | mini:PropertyPlantAndEquipment             | mini:CapitalAdditionsPropertyPlantAndEquipment          | Debit   | Medium    | Ties to fixed assets ledger.      |
| 32        | mini:PropertyPlantAndEquipment             | mini:DecreaseFromDepreciationAndAmortization            | Credit  | Medium    | Ties to fixed assets ledger.      |
| 33        | mini:PropertyPlantAndEquipment             | mini:PropertyPlantAndEquipmentWrittenOff                | Credit  | High      | Ties to supporting spreadsheet.   |
| 41        | mini:AccountsPayable                       | mini:PurchasesInventoryForSaleOnAccount                 | Credit  | Low       | Ties to purchase order system.    |
| 42        | mini:AccountsPayable                       | mini:DecreaseFromPaymentAccountsPayable                 | Debit   | Low       | Ties to check register.           |
| 43        | mini:AccruedInterest                       | mini:InterestAccrued                                    | Credit  | Medium    | Ties to account working papers.   |
| 44        | mini:AccruedInterest                       | mini:DecreaseFromPaymentOfInterest                      | Debit   | Medium    | Ties to account working papers.   |
| 51        | mini:LongtermDebt                          | mini:AdditionalLongtermBorrowings                       | Credit  | Medium    | Ties to bank statement.           |
| 52        | mini:LongtermDebt                          | mini:RepaymentLongtermBorrowings                        | Debit   | Medium    | Ties to bank statement.           |
| 71        | mini:PaidInCapital                         | mini:InvestmentsByOwner                                 | Credit  | Medium    | Ties to ledger of paid in capital |
| 72        | mini:PaidInCapital                         | mini:DistributionsToOwner                               | Debit   | Medium    | Ties to ledger of paid in capital |
| 81        | mini:RetainedEarnings                      | mini:NetIncomeLoss                                      | Credit  | Medium    | Ties to income statement          |
| 91        | mini:Sales                                 | mini:NetIncomeLoss                                      | Credit  | Medium    | Ties to sales journal.            |
| 92        | mini:CostsOfSales                          | mini:NetIncomeLoss                                      | Debit   | Medium    | Ties to sales journal.            |
| 93        | mini:DepreciationAndAmortization           | mini:NetIncomeLoss                                      | Debit   | Medium    | Ties to fixed assets ledger       |
| 94        | mini:SalesGeneralAndAdministrativeExpenses | mini:NetIncomeLoss                                      | Debit   | Medium    | Ties to check register.           |
| 95        | mini:InterestExpense                       | mini:NetIncomeLoss                                      | Debit   | Medium    | Ties to check register.           |
| 96        | mini:GainLossOnSalePropertyPlantEquipment  | mini:NetIncomeLoss                                      | Credit  | Medium    | Ties to fixed assets ledger.      |
| 97        | mini:NonoperatingIncomeExpenses            | mini:NetIncomeLoss                                      | Credit  | Medium    | Ties to check register.           |
| 98        | mini:IncomeTaxExpenseBenefit               | mini:NetIncomeLoss                                      | Debit   | Medium    | Ties to tax provision.            |

To understand what the XBRL concept for the report line item and the roll forward grouping code do; it is helpful to look at a set of journal entries which do not contain that information. Below is such a set of traditional journal entries and common information for those entries.

| EntryID | Sequence | TransactionPeriod | Account     | Amount | Balance | EffectiveValue | TransactionDescription  |
|---------|----------|-------------------|-------------|--------|---------|----------------|---|
| JE-201  | 1        | 2024-01-01        | 000-1100-00 | 10000  | D       | 10000          | Investment by owner to open a lemonade stand.                   |
| JE-201  | 2        | 2024-01-01        | 000-3100-00 | 10000  | C       | -10000         | Investment by owner to open a lemonade stand.                   |
| JE-202  | 1        | 2024-01-02        | 000-1100-00 | 2000   | D       | 2000           | Long term borrowing to purchase refrigerator.                   |
| JE-202  | 2        | 2024-01-02        | 000-2300-00 | 2000   | C       | -2000          | Long term borrowing to purchase refrigerator.                   |
| JE-203  | 1        | 2024-01-05        | 000-1500-00 | 1000   | D       | 1000           | Purchase of refrigerator using cash from additional borrowings. |
| JE-203  | 2        | 2024-01-05        | 000-1100-00 | 1000   | C       | -1000          | Purchase of refrigerator using cash from additional borrowings. |
| JE-204  | 1        | 2024-01-10        | 000-1300-00 | 5000   | D       | 5000           | Purchase of lemons to put into inventory on account.            |
| JE-204  | 2        | 2024-01-10        | 000-2150-00 | 5000   | C       | -5000          | Purchase of lemons to put into inventory on account.            |
| JE-205  | 1        | 2024-01-15        | 000-5100-00 | 3000   | D       | 3000           | Payment for contractor to work the lemonade stand.              |
| JE-205  | 2        | 2024-01-15        | 000-2150-00 | 3000   | C       | -3000          | Payment for contractor to work the lemonade stand.              |
| JE-206  | 1        | 2024-01-16        | 000-1200-00 | 8000   | D       | 8000           | Sales on account.   |
| JE-206  | 2        | 2024-01-16        | 000-4100-00 | 8000   | C       | -8000          | Sales on account.   |
| JE-206  | 3        | 2024-01-16        | 000-5100-00 | 2000   | D       | 2000           | Costs related to sales on account.                              |
| JE-206  | 4        | 2024-01-16        | 000-1300-00 | 2000   | C       | -2000          | Costs related to sales on account.                              |
| JE-207  | 1        | 2024-01-20        | 000-1100-00 | 8000   | D       | 8000           | Collection of accounts receivable.                              |
| JE-207  | 2        | 2024-01-20        | 000-1200-00 | 8000   | C       | -8000          | Collection of accounts receivable.                              |
| JE-208  | 1        | 2024-01-21        | 000-2150-00 | 7000   | D       | 7000           | Payment of accounts payable.                                    |
| JE-208  | 2        | 2024-01-21        | 000-1100-00 | 7000   | C       | -7000          | Payment of accounts payable.                                    |
| JE-209  | 1        | 2024-01-25        | 000-2300-00 | 1000   | D       | 1000           | Payment of long term debt including accrued interest.           |
| JE-209  | 2        | 2024-01-25        | 000-1100-00 | 1000   | C       | -1000          | Payment of long term debt including accrued interest.           |
| JE-209  | 3        | 2024-01-25        | 000-1100-00 | 150    | C       | -150           | Payment of long term debt including accrued interest.           |
| JE-209  | 4        | 2024-01-25        | 000-2160-00 | 150    | D       | 150            | Payment of long term debt including accrued interest.           |
| JE-210  | 1        | 2024-01-24        | 000-5400-00 | 150    | D       | 150            | Accrual of interest on debt.                                    |
| JE-210  | 2        | 2024-01-24        | 000-2160-00 | 150    | C       | -150           | Accrual of interest on debt.                                    |
| JE-223  | 1        | 2024-01-28        | 000-5100-00 | 300    | D       | 300            | Closing entry. Inventory write offs, adjust to physical.        |
| JE-223  | 2        | 2024-01-28        | 000-1300-00 | 300    | C       | -300           | Closing entry. Inventory write offs, adjust to physical.        |
| JE-224  | 1        | 2024-01-28        | 000-4100-00 | 100    | D       | 100            | Closing entry. Depreciation and amortization expensed.          |
| JE-224  | 2        | 2024-01-28        | 000-1500-00 | 100    | C       | -100           | Closing entry. Depreciation and amortization expensed.          |
| JE-225  | 1        | 2024-01-28        | 000-1500-00 | 0      | D       | 0              | Closing entry. Write of of PPE.                                 |
| JE-225  | 2        | 2024-01-28        | 000-5500-00 | 0      | C       | 0              | Closing entry. Write of of PPE.                                 |
| JE-226  | 1        | 2024-01-29        | 000-6100-00 | 400    | D       | 400            | Closing entry. Book taxes.                                      |
| JE-226  | 2        | 2024-01-29        | 000-2160-00 | 400    | C       | -400           | Closing entry. Book taxes.                                      |
|         |          |                   |             |        |         | 0              |   |

Note from above that there is no way to understand what report line item a transaction would be included within and there is no way to group the journal entry information into the set of line items necessary to prepare a statement of cash flows or a statement of changes in equity.

Sure, a skilled and experienced accountant can group and organize the journal entry information into the proper statements; but a computer cannot because the information necessary to do so is missing.

Contrast the above to what you see in the next graphic of a set of journal entries. The following set of journal entries adds four supplemental columns of information. The first two, EconomicEntityIdentifier and Units, are not actually necessary because in this case they are all the same for every journal entry. This is the case because the journal entries we are using are all for one reporting economic entity and all transaction amounts are provided in a single currency, US Dollars. But if multiple reporting entities and multiple reporting currencies were necessary, this mechanism can support this need. The second two include a field for the XBRL concept which contains the report line item and the roll forward grouping code are provided. The information that you see below is 100% of the necessary information required from an accounting system in order to generate a complete set of primary financial statements including: balance sheet, income statement, statement of cash flows, and statement of changes in equity.

| EntryID | Sequence | EconomicEntryIdentifier | TransactionPeriod | Account     | GeneralLedgerAccountCode         | RollForwardGroupingCode                                  | Amount | Units       | Rounding | Balance | EffectiveValue | TransactionDescription  |
|---------|----------|-------------------------|-------------------|-------------|----------------------------------|--|--------|-------------|----------|---------|----------------|---|
| JE-201  | 1        | 3081013745876b84fd      | 2024-01-01        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:ProceedsFromInvestmentsByOwner                      | 10000  | iso4217:USD | 2        | D       | 10000          | Investment by owner to open a lemonade stand.                   |
| JE-201  | 2        | 3081013745876b84fd      | 2024-01-01        | 000-3100-00 | mini:PaidInCapital               | mini:InvestmentsByOwner                                  | 10000  | iso4217:USD | 2        | C       | -10000         | Investment by owner to open a lemonade stand.                   |
| JE-202  | 1        | 3081013745876b84fd      | 2024-01-02        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:ProceedsFromAdditionalLongtermBorrowings            | 2000   | iso4217:USD | 2        | D       | 2000           | Long term borrowing to purchase refrigerator.                   |
| JE-202  | 2        | 3081013745876b84fd      | 2024-01-02        | 000-2300-00 | mini:LongtermDebt                | mini:AdditionalLongtermBorrowings                        | 2000   | iso4217:USD | 2        | C       | -2000          | Long term borrowing to purchase refrigerator.                   |
| JE-203  | 1        | 3081013745876b84fd      | 2024-01-05        | 000-1500-00 | mini:PropertyPlantAndEquipment   | mini:CapitalAdditionsPropertyPlantAndEquipment           | 1000   | iso4217:USD | 2        | D       | 1000           | Purchase of refrigerator using cash from additional borrowings. |
| JE-203  | 2        | 3081013745876b84fd      | 2024-01-05        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:PaymentsForCapitalAdditionsOfPropertyPlantEquipment | 1000   | iso4217:USD | 2        | C       | -1000          | Purchase of refrigerator using cash from additional borrowings. |
| JE-204  | 1        | 3081013745876b84fd      | 2024-01-10        | 000-1300-00 | mini:Inventories                 | mini:PurchaseOfInventoryForSale                          | 5000   | iso4217:USD | 2        | D       | 5000           | Purchase of lemons to put into inventory on account.            |
| JE-204  | 2        | 3081013745876b84fd      | 2024-01-10        | 000-2100-00 | mini:AccountsPayable             | mini:PurchaseOfInventoryForSaleOnAccount                 | 5000   | iso4217:USD | 2        | C       | -5000          | Purchase of lemons to put into inventory on account.            |
| JE-205  | 1        | 3081013745876b84fd      | 2024-01-15        | 000-5100-00 | mini:CostsOfSales                | mini:NetIncomeLoss                                       | 3000   | iso4217:USD | 2        | D       | 3000           | Payment for contractor to work the lemonade stand.              |
| JE-205  | 2        | 3081013745876b84fd      | 2024-01-15        | 000-2100-00 | mini:AccountsPayable             | mini:PurchaseOfInventoryForSaleOnAccount                 | 3000   | iso4217:USD | 2        | C       | -3000          | Payment for contractor to work the lemonade stand.              |
| JE-206  | 1        | 3081013745876b84fd      | 2024-01-16        | 000-1200-00 | mini:Receivables                 | mini:IncreaseInReceivablesFromSalesOnAccount             | 8000   | iso4217:USD | 2        | D       | 8000           | Sales on account.   |
| JE-206  | 2        | 3081013745876b84fd      | 2024-01-16        | 000-4100-00 | mini:Sales                       | mini:NetIncomeLoss                                       | 8000   | iso4217:USD | 2        | C       | -8000          | Sales on account.   |
| JE-206  | 3        | 3081013745876b84fd      | 2024-01-16        | 000-5100-00 | mini:CostsOfSales                | mini:NetIncomeLoss                                       | 2000   | iso4217:USD | 2        | D       | 2000           | Costs related to sales on account.                              |
| JE-206  | 4        | 3081013745876b84fd      | 2024-01-16        | 000-1300-00 | mini:Inventories                 | mini:DecreaseInInventoryFromSales                        | 2000   | iso4217:USD | 2        | C       | -2000          | Costs related to sales on account.                              |
| JE-207  | 1        | 3081013745876b84fd      | 2024-01-20        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:ProceedsFromCollectionOfReceivables                 | 8000   | iso4217:USD | 2        | D       | 8000           | Collection of accounts receivable.                              |
| JE-207  | 2        | 3081013745876b84fd      | 2024-01-20        | 000-1200-00 | mini:Receivables                 | mini:CollectionOfReceivables                             | 8000   | iso4217:USD | 2        | C       | -8000          | Collection of accounts receivable.                              |
| JE-208  | 1        | 3081013745876b84fd      | 2024-01-21        | 000-2100-00 | mini:AccountsPayable             | mini:DecreaseFromPaymentAccountsPayable                  | 7000   | iso4217:USD | 2        | D       | 7000           | Payment of accounts payable.                                    |
| JE-208  | 2        | 3081013745876b84fd      | 2024-01-21        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:PaymentOfAccountsPayable                            | 7000   | iso4217:USD | 2        | C       | -7000          | Payment of accounts payable.                                    |
| JE-209  | 1        | 3081013745876b84fd      | 2024-01-25        | 000-2300-00 | mini:LongtermDebt                | mini:RepaymentLongtermBorrowings                         | 1000   | iso4217:USD | 2        | D       | 1000           | Payment of long term debt including accrued interest.           |
| JE-209  | 2        | 3081013745876b84fd      | 2024-01-25        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:PaymentForReductionOfLongtermBorrowings             | 1000   | iso4217:USD | 2        | C       | -1000          | Payment of long term debt including accrued interest.           |
| JE-209  | 3        | 3081013745876b84fd      | 2024-01-25        | 000-1100-00 | mini:CashAndCashEquivalents      | mini:PaymentOfInterest                                   | 150    | iso4217:USD | 2        | C       | -150           | Payment of long term debt including accrued interest.           |
| JE-209  | 4        | 3081013745876b84fd      | 2024-01-25        | 000-2100-00 | mini:AccruedExpenses             | mini:DecreaseFromPaymentOfInterest                       | 150    | iso4217:USD | 2        | D       | 150            | Payment of long term debt including accrued interest.           |
| JE-210  | 1        | 3081013745876b84fd      | 2024-01-24        | 000-8400-00 | mini:InterestExpense             | mini:NetIncomeLoss                                       | 150    | iso4217:USD | 2        | D       | 150            | Accrual of interest on debt.                                    |
| JE-210  | 2        | 3081013745876b84fd      | 2024-01-24        | 000-2100-00 | mini:AccruedExpenses             | mini:InterestAccrued                                     | 150    | iso4217:USD | 2        | C       | -150           | Accrual of interest on debt.                                    |
| JE-223  | 1        | 3081013745876b84fd      | 2024-01-28        | 000-5100-00 | mini:CostsOfSales                | mini:NetIncomeLoss                                       | 300    | iso4217:USD | 2        | D       | 300            | Closing entry. Inventory write offs, adjust to physical.        |
| JE-223  | 2        | 3081013745876b84fd      | 2024-01-28        | 000-1300-00 | mini:Inventories                 | mini:InventoryWrittenOff                                 | 300    | iso4217:USD | 2        | C       | -300           | Closing entry. Inventory write offs, adjust to physical.        |
| JE-224  | 1        | 3081013745876b84fd      | 2024-01-28        | 000-4100-00 | mini:DepreciationAndAmortization | mini:NetIncomeLoss                                       | 100    | iso4217:USD | 2        | D       | 100            | Closing entry. Depreciation and amortization expensed.          |
| JE-224  | 2        | 3081013745876b84fd      | 2024-01-28        | 000-1500-00 | mini:PropertyPlantAndEquipment   | mini:DecreaseFromDepreciationAndAmortization             | 100    | iso4217:USD | 2        | C       | -100           | Closing entry. Depreciation and amortization expensed.          |
| JE-225  | 1        | 3081013745876b84fd      | 2024-01-28        | 000-1500-00 | mini:PropertyPlantAndEquipment   | mini:PropertyPlantAndEquipmentWrittenOff                 | 0      | iso4217:USD | 2        | D       | 0              | Closing entry. Write off of PPE.                                |
| JE-225  | 2        | 3081013745876b84fd      | 2024-01-28        | 000-9500-00 | mini:NonoperatingIncomeExpenses  | mini:NetIncomeLoss                                       | 0      | iso4217:USD | 2        | C       | 0              | Closing entry. Write off of PPE.                                |
| JE-226  | 1        | 3081013745876b84fd      | 2024-01-29        | 000-6100-00 | mini:IncomeTaxExpenseBenefit     | mini:NetIncomeLoss                                       | 400    | iso4217:USD | 2        | D       | 400            | Closing entry. Book taxes.                                      |
| JE-226  | 2        | 3081013745876b84fd      | 2024-01-29        | 000-2100-00 | mini:AccruedExpenses             | mini:InterestAccrued                                     | 400    | iso4217:USD | 2        | C       | -400           | Closing entry. Book taxes.                                      |
|         |          |                         |                   |             |                                  |  |        |             |          |         | 0              |   |

Further, the information in the set of journal entries above enables bidirectional navigation from a general journal entry to a financial report line item or from the financial report line item back to the general journal entry.

A query which groups all general journal entries above together into a single amount would yield a value of ZERO because, as every accountant knows, a balanced general journal always has the amount of debits which agree to the amount of credits.

Expanding the query to include the XBRL concept yields the following result:

| GeneralLedgerAccountCode         | 2024-12-31 |
|----------------------------------|------------|
| mini:CashAndCashEquivalents      | 10,850     |
| mini:Receivables                 | 0          |
| mini:Inventories                 | 2,700      |
| mini:PropertyPlantAndEquipment   | 900        |
| mini:AccountsPayable             | -1,000     |
| mini:AccruedExpenses             | -400       |
| mini:LongtermDebt                | -1,000     |
| mini:PaidInCapital               | -10,000    |
| mini:Sales                       | -8,000     |
| mini:CostsOfSales                | 5,300      |
| mini:DepreciationAndAmortization | 100        |
| mini:InterestExpense             | 150        |
| mini:NonoperatingIncomeExpenses  | 0          |
| mini:IncomeTaxExpenseBenefit     | 400        |
|                                  | 0          |

In effect, the above is similar to a pre close general ledger trial balance except that rather than being aggregated by accounts from the chart of accounts; the general journal entries are aggregated by to

XBRL concept that will report the line item. Being pre close, the income statement related line items are not closed into retained earnings as of yet.

Below is information which cannot be generated from the traditional general journal entries but can be generated from the modern general journal entries which includes my roll forward grouping codes:

| RollForwardGroupingCode                                 | SumOfAmounts |
|---|--------------|
| mini:AdditionalLongtermBorrowings                       | -2000        |
| mini:CapitalAdditionsPropertyPlantAndEquipment          | 1000         |
| mini:CollectionOfReceivables                            | -8000        |
| mini:DecreaseFromDepreciationAndAmortization            | -100         |
| mini:DecreaseFromPaymentAccountsPayable                 | 7000         |
| mini:DecreaseFromPaymentOfInterest                      | 150          |
| mini:DecreaseInInventoriesFromSales                     | -2000        |
| mini:IncreaseInReceivablesFromSalesOnAccount            | 8000         |
| mini:InterestAccrued                                    | -550         |
| mini:InventoryWrittenOff                                | -300         |
| mini:InvestmentsByOwner                                 | -10000       |
| mini:NetIncomeLoss                                      | -2050        |
| mini:PaymentForCapitalAdditionsOfPropertyPlantEquipment | -1000        |
| mini:PaymentForReductionOfLongtermBorrowings            | -1000        |
| mini:PaymentOfAccountsPayable                           | -7000        |
| mini:PaymentOfInterest                                  | -150         |
| mini:ProceedsFromAdditionalLongtermBorrowings           | 2000         |
| mini:ProceedsFromCollectionOfReceivables                | 8000         |
| mini:ProceedsFromInvestmentsByOwner                     | 10000        |
| mini:PropertyPlantAndEquipmentWrittenOff                | 0            |
| mini:PurchasesInventoryForSaleOnAccount                 | -8000        |
| mini:PurchasesOfInventoryForSale                        | 5000         |
| mini:RepaymentLongtermBorrowings                        | 1000         |
|   | 0            |

Note that the information above again foots to ZERO. Why? Again, because debits must equal credits. But rather than aggregating journal entry information by chart of accounts account or by XBRL concept line item; information is aggregated, the same general journal transactions, by that roll forward grouping code.

This representation of the same information as above but now leveraging the XBRL concept line item information yields the following:

| GeneralLedgerAccountCode         | RollForwardGroupingCode                                 | SumOfAmounts |
|----------------------------------|---|--------------|
| mini:CashAndCashEquivalents      | mini:PaymentForCapitalAdditionsOfPropertyPlantEquipment | -1000        |
| mini:CashAndCashEquivalents      | mini:PaymentForReductionOfLongtermBorrowings            | -1000        |
| mini:CashAndCashEquivalents      | mini:PaymentOfAccountsPayable                           | -7000        |
| mini:CashAndCashEquivalents      | mini:PaymentOfInterest                                  | -150         |
| mini:CashAndCashEquivalents      | mini:ProceedsFromAdditionalLongtermBorrowings           | 2000         |
| mini:CashAndCashEquivalents      | mini:ProceedsFromCollectionOfReceivables                | 8000         |
| mini:CashAndCashEquivalents      | mini:ProceedsFromInvestmentsByOwner                     | 10000        |
| mini:Receivables                 | mini:CollectionOfReceivables                            | -8000        |
| mini:Receivables                 | mini:IncreaseInReceivablesFromSalesOnAccount            | 8000         |
| mini:Inventories                 | mini:DecreaseInInventoriesFromSales                     | -2000        |
| mini:Inventories                 | mini:InventoryWrittenOff                                | -300         |
| mini:Inventories                 | mini:PurchasesOfInventoryForSale                        | 5000         |
| mini:PropertyPlantAndEquipment   | mini:CapitalAdditionsPropertyPlantAndEquipment          | 1000         |
| mini:PropertyPlantAndEquipment   | mini:DecreaseFromDepreciationAndAmortization            | -100         |
| mini:PropertyPlantAndEquipment   | mini:PropertyPlantAndEquipmentWrittenOff                | 0            |
| mini:AccountsPayable             | mini:DecreaseFromPaymentAccountsPayable                 | 7000         |
| mini:AccountsPayable             | mini:PurchasesInventoryForSaleOnAccount                 | -8000        |
| mini:AccruedExpenses             | mini:DecreaseFromPaymentOfInterest                      | 150          |
| mini:AccruedExpenses             | mini:InterestAccrued                                    | -550         |
| mini:LongtermDebt                | mini:AdditionalLongtermBorrowings                       | -2000        |
| mini:LongtermDebt                | mini:RepaymentLongtermBorrowings                        | 1000         |
| mini:PaidInCapital               | mini:InvestmentsByOwner                                 | -10000       |
| mini:Sales                       | mini:NetIncomeLoss                                      | -8000        |
| mini:CostsOfSales                | mini:NetIncomeLoss                                      | 5300         |
| mini:DepreciationAndAmortization | mini:NetIncomeLoss                                      | 100          |
| mini:InterestExpense             | mini:NetIncomeLoss                                      | 150          |
| mini:NonoperatingIncomeExpenses  | mini:NetIncomeLoss                                      | 0            |
| mini:IncomeTaxExpenseBenefit     | mini:NetIncomeLoss                                      | 400          |
|                                  |   | 0            |

Notice, yet again, that the debits and credits aggregate to ZERO. But now general journal entry information is aggregated first by the XBRL concept line item and then aggregated second by the roll forward grouping code to which the general journal transactions relate.

While this small set of transactions might look like a “toy”, it is not a toy and works with any set of general journal entries. Another iteration of this record to report process experiment used the Microsoft Dynamics *The World Online* (TWO) company sample data with the same result for the 22,301 general journal entries in that database.

Organizing the information above into what a report might look like yields what you see below. Please do not be confused by what you are looking at. Yes, it is true that external financial reports do not contain roll forwards for each and every balance sheet account. Your focus should be on the fact that you are getting the information that could be used to create those roll forwards and explain the

transactions being reported. Saying this another way, this is an excellent technique which can be used by accountants creating their internal financial reports to verify the integrity and accuracy of the report information. All the information is there. How that complete set of information is organized is up to the accountant who needs the information. My point is that this is an excellent way to work with the information.

Cash and cash equivalents roll forward:

| Concept [Aspect]   | Period [Aspect]         |         |
|--|-------------------------|---------|
|  | 2023-01-01   2023-12-31 |         |
| <b>Cash and Cash Equivalents [Roll Forward]</b>                |                         |         |
| Cash and Cash Equivalents, Beginning Balance                   | \$                      | 0       |
| Proceeds from Collection of Receivables                        |                         | 8,000   |
| Payment of Accounts Payable                                    |                         | (7,000) |
| Payment of Interest  |                         | (150)   |
| Proceeds from Additional Long-term Borrowings                  |                         | 2,000   |
| Payment for Reduction of Long-term Borrowings                  |                         | (1,000) |
| Payment for Capital Additions of Property, Plant and Equipment |                         | (1,000) |
| Proceeds from Investments by Owner                             |                         | 10,000  |
| Payment for Distributions to Owner                             |                         | 0       |
| Cash and Cash Equivalents, Ending Balance                      | \$                      | 10,850  |

Receivables roll forward:

| Concept [Aspect]                              | Period [Aspect]         |         |
|---|-------------------------|---------|
|   | 2023-01-01   2023-12-31 |         |
| <b>Receivables [Roll Forward]</b>             |                         |         |
| Receivables, Beginning Balance                | \$                      | 0       |
| Increase in Receivables from Sales on Account |                         | 8,000   |
| Collection of Receivables                     |                         | (8,000) |
| Additions to Allowance for Bad Debts          |                         | 0       |
| Bad Debts Written Off                         |                         | 0       |
| Receivables, Ending Balance                   | \$                      | 0       |

Inventories roll forward:

| Concept [Aspect]                   | Period [Aspect]         |         |
|------------------------------------|-------------------------|---------|
|                                    | 2023-01-01   2023-12-31 |         |
| <b>Inventories [Roll Forward]</b>  |                         |         |
| Inventories, Beginning Balance     | \$                      | 0       |
| Purchases of Inventory for Sale    |                         | 5,000   |
| Decrease in Inventories from Sales |                         | (2,000) |
| Inventory Written Off              |                         | (300)   |
| Inventories, Ending Balance        | \$                      | 2,700   |

Again, the three roll forwards are only representative of the information available and not the full set of roll forwards. The full set of roll forwards is available here at this link<sup>2</sup>.

<sup>2</sup> Lemonade stand prototype for record-to-report, [https://xbrlsite.azurewebsites.net/2024/prototypes/lemonade-stand/LUCA\\_REPORT.html](https://xbrlsite.azurewebsites.net/2024/prototypes/lemonade-stand/LUCA_REPORT.html)



Now, if you look at the statement of cash flow for the report generated from the general journal entries you can see the roll forward information organized differently, this time for use within that statement of cash flows:

| Concept [Aspect]   | Period [Aspect]         |         |
|--|-------------------------|---------|
|  | 2023-01-01   2023-12-31 |         |
| <b>Net Cash Flow [Roll Up]</b>                                 |                         |         |
| <b>Net Cash Flow Operating Activities [Roll Up]</b>            |                         |         |
| Proceeds from Collection of Receivables                        | \$                      | 8,000   |
| Payment of Accounts Payable                                    |                         | (7,000) |
| Net Cash Flow Operating Activities                             |                         | 1,000   |
| <b>Net Cash Flow Financing Activities [Roll Up]</b>            |                         |         |
| Proceeds from Additional Long-term Borrowings                  |                         | 2,000   |
| Payment for Reduction of Long-term Borrowings                  |                         | (1,000) |
| Payment of Interest  |                         | 150     |
| Proceeds from Investments by Owner                             |                         | 10,000  |
| Payment for Distributions to Owner                             |                         | 0       |
| Net Cash Flow Financing Activities                             |                         | 10,850  |
| <b>Net Cash Flow Investing Activities [Roll Up]</b>            |                         |         |
| Payment for Capital Additions of Property, Plant and Equipment |                         | (1,000) |
| Net Cash Flow Investing Activities                             |                         | (1,000) |
| Net Cash Flow  | \$                      | 10,850  |
| <b>Cash Flow Statement [Roll Forward]</b>                      |                         |         |
| Cash and Cash Equivalents, Beginning Balance                   | \$                      | 0       |
| Net Cash Flow  |                         | 10,850  |
| Cash and Cash Equivalents, Ending Balance                      | \$                      | 10,850  |

Similarly, a proper statement of changes in equity can be generated which you can see below:

| Concept [Aspect]             | Period [Aspect]         |        |
|------------------------------|-------------------------|--------|
|                              | 2023-01-01   2023-12-31 |        |
| <b>Equity [Roll Forward]</b> |                         |        |
| Equity, Beginning Balance    | \$                      | 0      |
| Investments by Owner         |                         | 10,000 |
| Distributions to Owner       |                         | 0      |
| Net Income (Loss)            |                         | 2,050  |
| Equity, Ending Balance       | \$                      | 12,050 |

Now, there is one final question that you should have in your mind. That question is, “How do you get the XBRL concept line items into their proper place within the actual report?” That is a good question; and there are two pieces of information you need in order to understand the answer.

First, the report generation mechanism is different that what you might be used to. This report is not a document, like Microsoft Word, the report is “model-based”. The report consists of a report model that defines what the report is supposed to look like. Then the reported facts are viewed through that provided report model.

The report model is published in the global standard XBRL technical format and looks like the following in a simple rendering provided in HTML<sup>3</sup>:

| Line | Label   | Object Class       | Period Type | Balance | Report Element Name   |
|------|---|--------------------|-------------|---------|---|
| 1    | 1102 - Statement - Balance Sheet                              | Network            |             |         | <a href="http://xbrlsite.com/mini/role/level4/BalanceSheet">http://xbrlsite.com/mini/role/level4/BalanceSheet</a>       |
| 2    | <b>Balance Sheet [Hypercube]</b>                              | Hypercube          |             |         | <a href="#">mini:BalanceSheetHypercube</a>  |
| 3    | <b>Balance Sheet [Line Items]</b>                             | LineItems          |             |         | <a href="#">mini:BalanceSheetLineItems</a>  |
| 4    | Assets [Roll Up]  | Abstract           |             |         | <a href="#">mini:AssetsRollUp</a>   |
| 5    | Current Assets [Roll Up]                                      | Abstract           |             |         | <a href="#">mini:CurrentAssetsRollUp</a>  |
| 6    | Cash and Cash Equivalents                                     | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:CashAndCashEquivalents</a>   |
| 7    | Receivables   | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:Receivables</a>  |
| 8    | Inventories   | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:Inventories</a>  |
| 9    | Current Assets  | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:CurrentAssets</a>  |
| 10   | Noncurrent Assets [Roll Up]                                   | Abstract           |             |         | <a href="#">mini:NoncurrentAssetsRollUp</a>   |
| 11   | Property, Plant and Equipment                                 | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:PropertyPlantAndEquipment</a>  |
| 12   | Noncurrent Assets   | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:NoncurrentAssets</a>   |
| 13   | Assets  | Concept (Monetary) | As Of       | Debit   | <a href="#">mini:Assets</a>   |
| 14   | Liabilities and Equity [Roll Up]                              | Abstract           |             |         | <a href="#">mini:LiabilitiesAndEquityRollUp</a>   |
| 15   | Liabilities [Roll Up]   | Abstract           |             |         | <a href="#">mini:LiabilitiesRollUp</a>  |
| 16   | Current Liabilities [Roll Up]                                 | Abstract           |             |         | <a href="#">mini:CurrentLiabilitiesRollUp</a>   |
| 17   | Accounts Payable  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:AccountsPayable</a>  |
| 18   | Accrued Expenses  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:AccruedExpenses</a>  |
| 19   | Current Liabilities   | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:CurrentLiabilities</a>   |
| 20   | Noncurrent Liabilities [Roll Up]                              | Abstract           |             |         | <a href="#">mini:NoncurrentLiabilitiesRollUp</a>  |
| 21   | Long-term Debt  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:LongtermDebt</a>   |
| 22   | Noncurrent Liabilities  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:NoncurrentLiabilities</a>  |
| 23   | Liabilities   | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:Liabilities</a>  |
| 24   | Equity [Roll Up]  | Abstract           |             |         | <a href="#">mini:EquityRollUp</a>   |
| 25   | Paid In Capital   | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:PaidInCapital</a>  |
| 26   | Retained Earnings   | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:RetainedEarnings</a>   |
| 27   | Equity  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:Equity</a>   |
| 28   | Liabilities and Equity  | Concept (Monetary) | As Of       | Credit  | <a href="#">mini:LiabilitiesAndEquity</a>   |
| 29   | 1102 - Statement - Income Statement                           | Network            |             |         | <a href="http://xbrlsite.com/mini/role/level4/IncomeStatement">http://xbrlsite.com/mini/role/level4/IncomeStatement</a> |
| 30   | <b>Income Statement [Hypercube]</b>                           | Hypercube          |             |         | <a href="#">mini:IncomeStatementHypercube</a>   |
| 31   | <b>Income Statement [Line Items]</b>                          | LineItems          |             |         | <a href="#">mini:IncomeStatementLineItems</a>   |
| 32   | Net Income (Loss) [Roll Up]                                   | Abstract           |             |         | <a href="#">mini:NetIncomeLossRollUp</a>  |
| 33   | Income (Loss) from Continuing Operations Before Tax [Roll Up] | Abstract           |             |         | <a href="#">mini:IncomeLossFromContinuingOperationsBeforeTaxRollUp</a>  |
| 34   | Operating Income (Loss) [Roll Up]                             | Abstract           |             |         | <a href="#">mini:OperatingIncomeLossRollUp</a>  |
| 35   | Gross Profit [Roll Up]  | Abstract           |             |         | <a href="#">mini:GrossProfitRollUp</a>  |
| 36   | Sales   | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:Sales</a>  |
| 37   | Costs of Sales  | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:CostsOfSales</a>   |
| 38   | Gross Profit (Loss)   | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:GrossProfitLoss</a>  |
| 39   | Operating Expenses [Roll Up]                                  | Abstract           |             |         | <a href="#">mini:OperatingExpensesRollUp</a>  |
| 40   | Sales, General, and Administrative Expenses                   | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:SalesGeneralAndAdministrativeExpenses</a>  |
| 41   | Depreciation and Amortization                                 | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:DepreciationAndAmortization</a>  |
| 42   | Operating Expenses  | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:OperatingExpenses</a>  |
| 43   | Operating Income (Loss)                                       | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:OperatingIncomeLoss</a>  |
| 44   | Nonoperating Income (Expenses) [Roll Up]                      | Abstract           |             |         | <a href="#">mini:NonoperatingIncomeExpensesRollUp</a>   |
| 45   | Interest Expense  | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:InterestExpense</a>  |
| 46   | Gain (Loss) on Sale of Property, Plant and Equipment          | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:GainLossOnSalePropertyPlantEquipment</a>   |
| 47   | Nonoperating Income (Expenses)                                | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:NonoperatingIncomeExpenses</a>   |
| 48   | Income (Loss) from Continuing Operations Before Tax           | Concept (Monetary) | For Period  | Credit  | <a href="#">mini:IncomeLossFromContinuingOperationsBeforeTax</a>  |
| 49   | Income Tax Expense (Benefit)                                  | Concept (Monetary) | For Period  | Debit   | <a href="#">mini:IncomeTaxExpenseBenefit</a>  |

That report model is used as a template to create a financial report using this model-based reporting approach. The issue here is not whether this modern model-based approach is better or worse than traditional reporting approaches where a document is created using Microsoft Word as one example.

The points that I am trying to get across are:

1. It is literally impossible for a machine to generate a full set of financial statements which includes a balance sheet, income statement, statement of cash flows, and statement of changes in equity without the supplemental information that I have added to the accounting system information.
2. Likewise, it is literally impossible for a traditional accounting software application to generate the same set of financial statement information.

<sup>3</sup> Published report model shown in human readable HTML, [https://xbrlsite.azurewebsites.net/2023/reporting-scheme/mini/base-taxonomy/mini\\_ModelStructure2.html](https://xbrlsite.azurewebsites.net/2023/reporting-scheme/mini/base-taxonomy/mini_ModelStructure2.html)

3. It is only possible to provide bidirectional navigation from general journal entries to financial statement line items or from financial statement line items to general journal entries if these missing pieces of information are provided. That said, if that information is provided; then that bidirectional navigation is possible and frankly quite useful for a number of reasons.
4. While this specific demonstration is for a very small report, I call it a “lemonade stand”; this same technique works for any general journal for any company. For example, in another iteration of this experiment I, as mentioned, use The World Online sample data which included 22,301 general journal entries.
5. While this and my other experiments all tended to focus on the general journal entries; this same approach is very doable for any subsidiary ledger. I am only using the general journal to make my point and perform my experiments.

For the full set of technical artifacts used in this experimentation, please see: (for best result please use “http” and not “https”)

<http://xbrlsite.azurewebsites.net/2024/prototypes/lemonade-stand/index.html>

