[Funding Dashboard] Data Architecture

[Client Account Balances]

* Step #1: Create Team Profile in Global Office
* Step #2: Extract “Holding’s Summary” & Save to Desktop (Override Previous)
* Step #3: [Macro] Load Account Balances

[Macro] Load Client Account Balances:

<Beg>

+ Set Range >> Admin Dashboard

+ Open Global Office Extract

+ Read Client Account Balances to Array/Range

+ Close Global Office Extract

+ Match & Populate Client Balances to Those Chosen By Admin

<End>

[**Access | Database Design**]

\*\*All Underlying Funding Dashboard Data Will Be Pulled From Access Database

* Standardization & Control Over All Data Being Used By Funding Team
* Seamless Handoff Between Admins
  + Admin #1 – Handing Off
    - Step #1 – Tie Out Accounts & Transaction Activity
    - Step #2 – [Macro] Upload Dashboard Client Transaction Data to Access

[Macro] Upload/Archive Dashboard

<Beg>

+ Validation – Upload Unique Only

+ Log Dashboard Archive

+ Show Archive Summary

<End>

* + Admin #2 – Receiving
    - Step #1 – Add Additional Accounts to Admin Dashboard
    - Step #2 – [Macro] Download Client Transaction Data – Added Accounts Only

[Macro] Download/Import/Merge/Pull Admin Handoff

<Beg>

+ Validation – Identify Unique & Eliminate Duplicates

+ Import and Merge Unique

+ Log Import

+ Show Import Summary

<End>

* Centralization Allows For Easy Updating & For Changes to Be Rolled Out Across Entire Team Smoothly
  + Audit/Compliance:
    - Full Access - Management
    - Changes/Updates – Approvers
    - Read Only & Archive Access - Admins
    - Required Documentation For Changes Stored In Database (Line Item)
* Relational Database Schema:
  + [Table#1] Client Funding Account Info
    - [Field] ci\_Index
    - [Field] Deal ID/Cusip \*Primary Key
    - [Field] Client Legal Name
    - [Field] Warehouse Lender
    - [Field] Disbursement Acct
    - [Field] Settlement Acct
    - [Field] Operating Acct
    - [Field] Admin Primary \*Foreign Key
    - [Field] Admin Backup \*Foreign Key
    - [Field] Date Added
    - [Field] Last Updated Date
    - [Field] Last Updated Name
  + [Table#2] Funding Wires
    - [Field] fw\_Index \*Primary Key
    - [Field] Execution Date
    - [Field] Deal ID/Cusip \*Foreign Key
    - [Field] Amount
    - [Field] Loan Number
    - [Field] Borrower Name
    - [Field] ABA Number \*Foreign Key
    - [Field] Account Number
    - [Field] Beneficiary
    - [Field] Misc/FFC
    - [Field] Fed Ref
  + [Table#3] Manual Wires
    - [Field] mw\_Index \*Primary Key
    - [Field] Execution Date
    - [Field] Deal ID/Cusip \*Foreign Key
    - [Field] Amount
    - [Field] ABA Number \*Foreign Key
    - [Field] Account Number
    - [Field] Beneficiary
    - [Field] Standard Wire (Bool)
    - [Field] Transaction Detail
  + [Table#4] Internal Transfers
    - [Field] it\_Index \*Primary Key
    - [Field] Execution Date
    - [Field] Deal ID (Debit) \*Foreign Key
    - [Field] Deal ID (Credit) \*Foreign Key
    - [Field] Transaction Detail
  + [Table#5] Bank Wire Instructions
    - [Field] aba\_Index
    - [Field] ABA Number \*Primary Key
    - [Field] Bank Name
    - [Field] Approve Date
    - [Field] Last Update Date
    - [Field] Last Update Name
  + [Table#6] Standard Wire Instructions (BNF)
    - [Field] bnf\_Index
    - [Field] Bnf Account Number \*Primary Key
    - [Field] Bnf Account Name
    - [Field] ABA Number \*Foreign Key
    - [Field] Wire Detail
    - [Field] Approve Date
    - [Field] Last Update Date
    - [Field] Last Update Name

[**Excel | Dashboard Design**]

\*\*Customizable Dashboard (Admin)

* Rely on Built-In Spreadsheet Formulas for All Calculations

Include:

* [Worksheet] Required Data References
  + Batch Wires
  + Manual Wires
  + Internal Transfers
  + Bank Data (Standard Wire Instructions)
  + Client Data
* [Userform] Cash Auto
  + Launch Buttons (Movable)
* [Macros]
  + ETL
  + General Utility
    - Format & Save Funding Batch
    - Record Funding Batch (Excel)
    - Load Account Balances
    - Auto Generate Emails
      * Request Borrower Info (Client)
      * Submit Borrower Info (Investigations)
      * Send Funding Wire Fed Refs (Client)
        + Match & Append Fed Refs to Previously Recorded Batch Data
      * Suspense Account Transfer (Jaipur)
  + Validation
    - Duplicate Wire (Excel)
      * Funding
      * Manual
      * Transfer
    - Duplicate Upload (Access)
    - Tie-Out Divergence >> Reconciliation Tool

\*\*Functions

* Format Funding Batch (Exception)
  + Userform
    - [Procedure] Load Funding Batch to Userform
      * Step #1: [Function] Select Batch
        + Array vs Range
      * Step #2:[Function] Validate Batch – Row 1 (Headers)

[Function] Is\_Standard\_Batch

[Function] Is\_Non\_Standard\_Batch

* + - * Step #3: [Function] Associate\_Column\_Headers
      * Step #4: [Procedure] Populate Userform
    - [
    - Selected Wires Will be Formatted Separately
    - Selected Wires Added to Cash Auto Queue

Reasons to Include

* + Warehouse Funding – Includes Failed Wires

Reasons to Exclude

* Cash Auto Wire Queue.