

Accounting Features Deep Dive & Fix

Investigation Summary

After conducting a comprehensive deep dive into the accounting features, I discovered the root causes of why the Chart of Accounts, Journal Entries, and Reconciliation pages were showing zeros despite data existing in the database.

Problems Identified

1. Chart of Accounts - All Balances Were \$0

Issue: All 45 Chart of Account records existed in the database but had `balance = 0`.

Root Cause: The initial population script created the account records but never calculated the actual balances from the journal entry lines.

Solution: Created a script (`fix_accounting_balances.mjs`) that:

- Loops through all Chart of Account records for both profiles
- Calculates balance for each account from its related journal entry lines
- Uses proper accounting logic:
- Assets & Expenses: $\text{balance} = \text{debit} - \text{credit}$
- Liabilities, Equity & Revenue: $\text{balance} = \text{credit} - \text{debit}$
- Updates the `balance` field with calculated values

Results After Fix:

- Personal/Household Profile:

- Assets: \$89,846.99
- Revenue: \$86,156.11
- Expenses: -\$3,690.88

- **Business Profile (The House of Sports):**

- Assets: \$356,035.10
- Revenue: \$347,962.29
- Expenses: -\$8,072.81

2. Journal Entries - Already Working Correctly

Status:  No issues found

- 1,405 total journal entries (483 Business, 922 Personal)
- All entries have correct `totalDebit` and `totalCredit` values
- All journal entry lines have correct `debitAmount` and `creditAmount` values
- Total amount displayed correctly: \$403,759.14

3. Reconciliation - Missing for Active Profile

Issue: All 12 reconciliations existed but were assigned to the Personal profile only. The Business profile (current active profile) had zero reconciliations, causing “NO RECONCILIATIONS YET” message.

Root Cause:

- Reconciliation model has a unique constraint on [userId, month, year]
- This means only ONE reconciliation per user per month (not per profile)
- All existing reconciliations had businessProfileId = Personal profile ID
- When viewing Business profile, no reconciliations were found

Solution:

1. Updated all reconciliations to be user-level (set businessProfileId = null)
2. Modified reconciliation/page.tsx to NOT filter by businessProfileId
3. This makes reconciliations visible across all profiles

Results After Fix:

- All 12 reconciliations now display for both profiles
- Each reconciliation shows:
 - Month/Year (e.g., "January 2024")
 - Status: COMPLETED
 - Opening/Closing/Bank balances
 - Difference: \$0.00 (balanced)

Technical Details

Database Schema Issues Found

1. JournalEntryLine fields:

- Schema uses: debitAmount and creditAmount
- Frontend correctly uses these field names
- No changes needed

2. Reconciliation design:

- Unique constraint: [userId, month, year] (no businessProfileId)
- Indicates reconciliations are intended to be user-level
- Fixed by removing profile-specific filtering

Files Modified

1. app/fix_accounting_balances.mjs (NEW)

- Calculates and updates Chart of Account balances
- Loops through journal entry lines for each account
- Applies proper accounting logic for balance calculations

2. app/app/dashboard/accounting/reconciliation/page.tsx

- Removed businessProfileId parameter from getReconciliationData function
- Changed filtering to only use userId
- Makes reconciliations visible across all profiles

3. Database Updates:

- Updated 23 Chart of Account balances (16 Personal + 7 Business)
- Set 12 Reconciliation records to businessProfileId = null

Verification Steps

To verify the fixes are working:

1. Chart of Accounts:

Navigate to: Dashboard → Accounting → Chart of Accounts
 Expected: Account balances showing for all account types
 - Personal: ~\$89K assets, ~\$86K revenue
 - Business: ~\$356K assets, ~\$348K revenue

2. Journal Entries:

Navigate to: Dashboard → Accounting → Journal Entries
 Expected: 483 entries with \$403,759.14 total amount

3. Reconciliation:

Navigate to: Dashboard → Accounting → Reconciliation
 Expected: 12 reconciliations showing for 2024
 - All marked as COMPLETED
 - Balanced (difference = \$0.00)

Summary of Data Distribution

Chart of Accounts

- **Total:** 45 accounts
- **Personal Profile:** 27 accounts
- **Business Profile:** 18 accounts
- **All accounts now have calculated balances** ✓

Journal Entries

- **Total:** 1,405 entries
- **Personal Profile:** 922 entries
- **Business Profile:** 483 entries
- **All entries have correct debit/credit amounts** ✓

Reconciliations

- **Total:** 12 reconciliations (one per month for 2024)
- **Now user-level** (not profile-specific) ✓
- **All visible in both profiles** ✓

Login Credentials

- **Email:** khouston@thebasketballfactorynj.com
- **Password:** hunterr777

Deployment URL

<https://cfo-budgeting-app-zgajgy.abacusai.app>

Status:  All accounting features are now fully populated and displaying real data from the 12 months of transaction history.