

# Transaction History and Pricing Display Fix

**Date:** October 31, 2024

**Issues Fixed:**

1. Exact searches with “No Results” not showing in transaction history
2. Pricing display missing thousand separators

## Issue 1: Missing Transaction History for Free Searches

### Problem

Exact searches that returned “No Results” were supposed to be logged as free (0 credits) transactions, but they were not appearing in the transaction history.

### Root Cause

The database had a constraint that prevented zero-amount transactions:

```
CONSTRAINT credit_transactions_amount_non_zero CHECK (amount != 0)
```

This constraint was blocking the `recordFreeSearch()` function from inserting transactions with `amount = 0` for:

- Exact searches with no results
- Duplicate/cached searches (already fixed earlier)

### Solution

#### Part 1: Database Migration

Created migration `012_allow_zero_credit_transactions.sql` :

```
-- Drop the existing non-zero constraint
ALTER TABLE credit_transactions
DROP CONSTRAINT IF EXISTS credit_transactions_amount_non_zero;

-- Create index for better performance
CREATE INDEX IF NOT EXISTS idx_credit_transactions_zero_amount
ON credit_transactions(customer_id, amount)
WHERE amount = 0;
```

#### Part 2: Admin API Endpoint

Created `/api/admin/migrate` endpoint that:

- Requires `SUPER_ADMIN` authentication
- Runs the migration safely
- Returns success/error status

**To run the migration:**

```
# As SUPER_ADMIN user, make a POST request:
curl -X POST https://your-domain.com/api/admin/migrate \
-H "Cookie: next-auth.session-token=YOUR_SESSION_TOKEN"
```

Or access via browser console while logged in as SUPER\_ADMIN:

```
fetch('/api/admin/migrate', { method: 'POST' })
  .then(r => r.json())
  .then(console.log);
```

## Issue 2: Pricing Display Missing Commas

### Problem

Credit package prices were displayed without thousand separators:

- ❌ \$1000.00
- ❌ \$5000.00
- ❌ \$10000.00
- ❌ \$20000.00

### Solution

Updated the `formatPrice()` function in `/src/app/dashboard/page.tsx` :

#### Before:

```
const formatPrice = (priceCents: number) => {
  return (priceCents / 100).toFixed(2);
};
```

#### After:

```
const formatPrice = (priceCents: number) => {
  const dollars = priceCents / 100;
  return dollars.toLocaleString('en-US', {
    minimumFractionDigits: 2,
    maximumFractionDigits: 2,
  });
};
```

#### Result:

- ✅ \$1,000.00
- ✅ \$5,000.00
- ✅ \$10,000.00
- ✅ \$20,000.00

## Additional Fix: Transaction Type Display

---

### Problem

Transaction types in the database are stored in uppercase ( `PURCHASE` , `USAGE` ), but the dashboard was comparing them in lowercase, causing incorrect styling.

### Solution

Updated transaction type comparisons to be case-insensitive:




#### Before:

```
transaction.transaction_type === 'purchase'
```

#### After:

```
transaction.transaction_type.toUpperCase() === 'PURCHASE'
```

This ensures correct color coding:

-  `PURCHASE` → Green badge
-  `USAGE` → Blue badge
-  Others → Gray badge

---

## Files Changed

---

### 1. Database Migration

- `database/migrations/012_allow_zero_credit_transactions.sql` (NEW)
- `scripts/run-migration-012.js` (NEW)

### 2. API Endpoint

- `src/app/api/admin/migrate/route.ts` (NEW)

### 3. Dashboard

- `src/app/dashboard/page.tsx`
  - Updated `formatPrice()` function (line 212-218)
  - Fixed transaction type comparisons (lines 303, 405, 407)

---

## Testing Checklist

---

### After Running Migration:

#### 1. Test Free Exact Searches (No Results)

- Log in as regular user
- Perform exact search that returns no results
- Check transaction history → Should show entry with 0 credits
- Check credit balance → Should not decrease

## 2. Test Duplicate Cached Searches

- Perform same search twice after cooldown
- Check transaction history → Should show 0-credit entry for duplicate
- Check credit balance → Should not decrease on second search

## 3. Test Pricing Display

- Go to “Buy More Credits” section
- Verify all prices show with commas:
  - \$1,000.00 ✓
  - \$5,000.00 ✓
  - \$10,000.00 ✓
  - \$20,000.00 ✓

## 4. Test Transaction Type Display

- View transaction history
- Verify PURCHASE transactions have green badge
- Verify USAGE transactions have blue badge
- Verify 0-credit transactions display correctly

# Migration Instructions

## For Production Deployment:

### 1. Run the migration (SUPER\_ADMIN only):

```
javascript
// In browser console while logged in as SUPER_ADMIN:
fetch('/api/admin/migrate', { method: 'POST' })
  .then(r => r.json())
  .then(data => console.log(data));
```

### 2. Verify migration success:

- Response should be: `{ success: true, message: "Migration completed..." }`

### 3. Test free searches:

- Perform exact search with no results
- Check if it appears in transaction history

## Alternative: Direct Database Access

If you have direct database access:





```
-- Run this SQL directly:
ALTER TABLE credit_transactions
DROP CONSTRAINT IF EXISTS credit_transactions_amount_non_zero;

CREATE INDEX IF NOT EXISTS idx_credit_transactions_zero_amount
ON credit_transactions(customer_id, amount)
WHERE amount = 0;
```






## Impact Summary

---

### Before:

-  Exact searches with no results: Not visible in transaction history
-  Duplicate cached searches: Not visible in transaction history
-  Pricing: \$10000.00 (hard to read)
-  Transaction badges: Potential styling issues

### After:

-  All searches logged in transaction history (including free ones)
-  Complete audit trail of all search activity
-  Pricing: \$10,000.00 (easy to read)
-  Correct color coding for all transaction types
-  Better UX and transparency for customers

---

## Build Status

 **Build Successful** - Ready for deployment

## Next Steps

---

1. Deploy the updated code
2. Run the database migration as SUPER\_ADMIN
3. Test all scenarios listed in the testing checklist
4. Monitor transaction history for free searches

---

**Status:**  **READY FOR MIGRATION AND DEPLOYMENT**