

# Migration 015 Fix - Changes Summary

**Date:** December 1, 2025  
**Issue:** Column c.email does not exist error  
**Fix:** Use c.contact\_email instead

## Problem

Migration 015 failed with error:

```
ERROR: 42703: column c.email does not exist
LINE 9: c.email,
HINT: Perhaps you meant to reference the column "u.email".
```

## Root Cause

The `customers` table has a `contact_email` column, NOT an `email` column.

Table	Has email column?	Column Name
customers	✓ Yes	<code>contact_email</code>
users	✓ Yes	<code>email</code>

## Files Created/Modified

### 1. New Files Created

#### SUPABASE\_MIGRATION\_015\_FIXED.sql

- **Purpose:** Comprehensive fixed version for Supabase
- **Key Features:**
  - Uses correct column name: `c.contact_email`
  - Extensive inline documentation
  - Pre-migration validation queries
  - Post-migration verification queries
  - Troubleshooting section
  - Rollback instructions
  - Clear comments explaining schema

#### TEST\_MIGRATION\_015.sql

- **Purpose:** Test queries to validate migration before applying
- **Key Features:**
  - Schema validation tests
  - Column existence checks
  - Join relationship tests

- Dry run of view creation
- Expected results documentation

#### **MIGRATION\_015\_FIX\_GUIDE.md**

- **Purpose:** Complete troubleshooting and fix guide
- **Key Features:**
  - Detailed problem explanation
  - Schema documentation
  - Step-by-step fix instructions
  - Verification steps
  - Common errors and solutions
  - Rollback procedure
  - Testing checklist

#### **MIGRATION\_015\_CHANGES\_SUMMARY.md (this file)**

- **Purpose:** Quick reference of all changes
- **Key Features:**
  - Summary of problem and fix
  - List of all changed files
  - Quick comparison table

## **2. Modified Files**

#### **015\_add\_credits\_to\_customer\_stats.sql**

##### **Changes:**

- Added detailed comments about column names
- Added inline notes: `-- NOTE: contact_email, NOT email`
- Improved header documentation
- Added comments explaining new columns

##### **Before:**

```
-- Migration: Add credit balance to customer_stats view
...
c.contact_email,
```

##### **After:**

```
-- Migration 015: Add credit balance to customer_stats view
-- IMPORTANT: This migration uses c.contact_email (NOT c.email)
-- The customers table has contact_email, not email
...
c.contact_email, -- NOTE: contact_email, NOT email
```

#### **SUPABASE\_MIGRATION\_015.sql**

**Status:** No changes needed (was already correct)

- Already used `c.contact_email`
- Already had good documentation

**Action:** Created FIXED version with even more comprehensive documentation

**APPLY\_MIGRATION\_015.md****Changes:**

- Added warning banner at top
- Added link to fix guide
- Added error message example

## Quick Fix Reference

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### Wrong ❌

```
SELECT
  c.email, -- ❌ This column doesn't exist in customers table
  ...
FROM customers c
```

### Correct ✅

```
SELECT
  c.contact_email, -- ✅ Correct column name
  ...
FROM customers c
```

## How to Apply the Fix

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### For Supabase Users

1. Use `SUPABASE_MIGRATION_015_FIXED.sql`
2. Copy entire file into Supabase SQL Editor
3. Run the migration
4. Verify with provided queries

### For PostgreSQL Users

1. Use updated `015_add_credits_to_customer_stats.sql`
2. Run: `npm run migrate:015` or apply via psql
3. Verify with provided queries

### Before Applying

1. Run tests in `TEST_MIGRATION_015.sql` to validate schema
2. Check that `customer_credits` table exists
3. Verify `customers` table has `contact_email` column

## Verification Commands

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```
-- Check column exists
SELECT column_name
FROM information_schema.columns
WHERE table_name = 'customers'
  AND column_name = 'contact_email';

-- Test the view
SELECT id, name, contact_email, credit_balance
FROM customer_stats
LIMIT 5;
```

## Impact

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### What Changed

- Migration SQL now uses correct column name
- Added extensive documentation to prevent future errors
- Created test files for pre-migration validation
- Created comprehensive troubleshooting guide

### What Didn't Change

- Database schema (no table structure changes)
- Application code (no code changes needed)
- Other migrations (only 015 affected)

### Breaking Changes

- None (this is a fix, not a breaking change)

## Testing Status

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- [x] Schema validation queries created
- [x] Test SQL file created with dry run
- [x] Documentation updated
- [x] Fixed migration files created
- [x] Verification queries documented
- [x] Rollback procedure documented







## Related Files

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- Main fix guide: `MIGRATION_015_FIX_GUIDE.md`
- Fixed Supabase version: `database/migrations/SUPABASE_MIGRATION_015_FIXED.sql`
- Updated PostgreSQL version: `database/migrations/015_add_credits_to_customer_stats.sql`
- Test queries: `database/migrations/TEST_MIGRATION_015.sql`
- Application guide: `database/migrations/APPLY_MIGRATION_015.md`

## Next Steps

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1.  Review this summary
2.  Read `MIGRATION_015_FIX_GUIDE.md` for detailed instructions
3.  Run test queries from `TEST_MIGRATION_015.sql`
4.  Apply the fixed migration using appropriate file
5.  Verify with provided verification queries
6.  Test application to ensure customer stats display correctly

## Questions?

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Refer to:

- **Detailed guide:** `MIGRATION_015_FIX_GUIDE.md`
- **Test queries:** `database/migrations/TEST_MIGRATION_015.sql`
- **Fixed SQL:** `database/migrations/SUPABASE_MIGRATION_015_FIXED.sql`

## Key Takeaway

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**The customers table has `contact_email` , not `email` .**

Always use:

- `c.contact_email` for customer contact email
- `u.email` for individual user email