SCL (StepCounterLeague) Supabase Database Schema Export for Claude

PROJECT OVERVIEW

Project Name: StepCounterLeague
Project ID: nwhvkhydryulgxobqioi
Database: PostgreSQL (Supabase)
Schema: public
Total Tables: 6
Total Functions: 1
Total Replicas: 0

BUILD ERROR TO FIX

File: ./src/app/api/invite/join/route.ts (Line 43)
Error: Type error: Property 'id' does not exist on type 'never'
Cause: TypeScript cannot infer type of 'league' variable
The .single() method returns League | null but type narrowing is failing

Solution: Use .maybeSingle() instead of .single() for better TypeScript handling

DATABASE TABLES (6 TOTAL)

1. AUDIT_LOG
Purpose: Tracks user actions and changes to the system
Columns:
  - id (bigint, PK, NOT NULL) - Identity generated
  - actor_id (uuid, FK, NULLABLE) - References users.id
  - action (text, NOT NULL) - Action performed
  - target_id (uuid, NULLABLE) - ID of affected resource
  - details (jsonb, NULLABLE) - Additional metadata
  - created_at (timestamp with time zone, NOT NULL, DEFAULT: now())
Constraints:
  - PRIMARY KEY: audit_log_pkey (id)
  - FOREIGN KEY: audit_log_actor_id_fkey (actor_id → users.id)
Indexes:
  - audit_log_target_idx (target_id, created_at DESC)

2. LEAGUES
Purpose: Stores league/competition information
Columns:
  - id (uuid, PK, NOT NULL, DEFAULT: gen_random_uuid())
  - name (text, NOT NULL)

- stepweek_start (text, NOT NULL) - Start day for step counting week
- invite_code (text, NOT NULL, UNIQUE)
- owner_id (uuid, FK, NOT NULL) - References users.id
- created_at (timestamp with time zone, NOT NULL, DEFAULT: now())
Constraints:
- PRIMARY KEY: leagues_pkey (id)
- UNIQUE: leagues_invite_code_key (invite_code)
- FOREIGN KEY: leagues_owner_id_fkey (owner_id → users.id)
- CHECK: leagues_stepweek_start_check (stepweek_start = ANY (ARRAY['mon'::text, 'sun'::text]))

3. MEMBERSHIPS
Purpose: Links users to leagues (many-to-many relationship)
Columns:
- id (uuid, PK, NOT NULL, DEFAULT: gen_random_uuid())
- league_id (uuid, FK, NOT NULL) - References leagues.id
- user_id (uuid, FK, NOT NULL) - References users.id
- role (text, NOT NULL, DEFAULT: 'member'::text)
- joined_at (timestamp with time zone, NOT NULL, DEFAULT: now())
Constraints:
- PRIMARY KEY: memberships_pkey (id)
- FOREIGN KEY: memberships_user_id_fkey (user_id → users.id)
- FOREIGN KEY: memberships_league_id_fkey (league_id → leagues.id)

4. SITE_SETTINGS
Purpose: Global application configuration
Columns:
- id (uuid, PK, NOT NULL, DEFAULT: gen_random_uuid())
- key (text, NOT NULL, UNIQUE)
- value (text, NOT NULL)
- description (text, NULLABLE)
- updated_at (timestamp with time zone, NOT NULL, DEFAULT: now())
- updated_by (uuid, FK, NULLABLE) - References users.id
Constraints:
- PRIMARY KEY: site_settings_pkey (id)
- UNIQUE: site_settings_key_key (key)
- FOREIGN KEY: site_settings_updated_by_fkey (updated_by → users.id)

5. SUBMISSIONS
Purpose: User step count submissions for leagues
Columns:
- id (uuid, PK, NOT NULL, DEFAULT: gen_random_uuid())
- league_id (uuid, FK, NOT NULL) - References leagues.id
- user_id (uuid, FK, NOT NULL) - References users.id
- step_count (int, NOT NULL) - Number of steps submitted
- submission_date (text, NOT NULL) - Date of submission (format: YYYY-MM-DD)
- file_date (timestamp, NOT NULL) - When the file was created
- steps (int, NOT NULL)

- partial (text, NULLABLE)
- proof_path (text, NULLABLE) - File path/URL for proof
- verified (boolean, NULLABLE)
- submission_used (boolean, NULLABLE)
- extracted_bio (text, NULLABLE)
- extracted_calories (text, NULLABLE)
- verification_notes (text, NULLABLE)
- created_at (timestamp with time zone, NOT NULL, DEFAULT: now())
Constraints:
- PRIMARY KEY: submissions_pkey (id)
- FOREIGN KEY: submissions_league_id_fkey (league_id → leagues.id)
- FOREIGN KEY: submissions_user_id_fkey (user_id → users.id)

6. USERS
Purpose: Application users
Columns:
- id (uuid, PK, NOT NULL, DEFAULT: auth.uid())
- display_name (text, NULLABLE)
- units (text, NULLABLE) - Preferred units (steps, km, mi, etc.)
- created_at (timestamp with time zone, NOT NULL, DEFAULT: now())
- is_superadmin (boolean, NOT NULL, DEFAULT: false)
Constraints:
- PRIMARY KEY: users_pkey (id)

RELATIONSHIPS (7 FOREIGN KEYS)

1. audit_log → users (actor_id → id)
2. leagues → users (owner_id → id)
3. memberships → users (user_id → id)
4. memberships → leagues (league_id → id)
5. site_settings → users (updated_by → id)
6. submissions → leagues (league_id → id)
7. submissions → users (user_id → id)

KEY ISSUES TO INVESTIGATE

TypeScript Type Errors
1. League type inference failing on .single() - switch to .maybeSingle()
2. Ensure database.types.ts is properly generated
3. Check for circular dependencies in type imports

Database Design Notes
1. submission_used column appears to store boolean but type may be text
2. Many optional columns in submissions table - may need type coercion
3. steps and step_count columns in submissions (potential duplication)
4. file_date is timestamp but submission_date is text string

Environment & Configuration

- Supabase URL: https://nwhvkhydryulgxobqioi.supabase.co
- RLS (Row Level Security) appears to be enabled on some tables
- Audit logging is implemented for user actions
- Soft permissions model: roles stored in memberships table

GENERATED TYPE EXPORTS (Next.js)

Expected to generate at: src/lib/database.types.ts
Key exports should include:
  - Database
  - Tables
  - Views
  - Functions
  - Enums
  - Composites

Type definitions for each table as follows:

```
type League = {
  id: string
  name: string
  stepweek_start: "mon" | "sun"
  invite_code: string
  owner_id: string
  created_at: string
}

type User = {
  id: string
  display_name: string | null
  units: string | null
  created_at: string
  is_superadmin: boolean
}

type Membership = {
  id: string
  league_id: string
  user_id: string
  role: string
  joined_at: string
}

type Submission = {
  id: string
  league_id: string
  user_id: string
  step_count: number
```

```
  submission_date: string
  file_date: string
  steps: number
  partial: string | null
  proof_path: string | null
  verified: boolean | null
  submission_used: boolean | null
  extracted_bio: string | null
  extracted_calories: string | null
  verification_notes: string | null
  created_at: string
}

type SiteSetting = {
  id: string
  key: string
  value: string
  description: string | null
  updated_at: string
  updated_by: string | null
}

type AuditLog = {
  id: number
  actor_id: string | null
  action: string
  target_id: string | null
  details: Record<string, unknown> | null
  created_at: string
}
```

FILES REQUIRING UPDATES

1. src/app/api/invite/join/route.ts
   - Line 43: Fix league type inference
   - Use maybeSingle() instead of single()
   - Add proper null check

2. src/lib/database.types.ts
   - Ensure regenerated from latest schema
   - Verify all table types are exported
   - Check for any type mismatches

3. src/lib/supabase/middleware.ts
   - Check for TypeScript errors in Supabase client initialization
   - Verify middleware properly types auth context

4. Project dependencies

- Update @supabase/supabase-js to latest version
  - Update @supabase/ssr for Next.js 14
  - Ensure TypeScript version supports latest syntax

NEXT STEPS FOR CLAUDE

1. Review all type errors from build log
2. Fix TypeScript type inference issues
3. Regenerate database types: npx supabase gen types typescript --linked
4. Update all route handlers with proper type safety
5. Test with 'next build' locally before deploying

EXPORTED DATA FILES

The following files were downloaded from Supabase SQL Editor:
1. schema-columns-overview.csv - Complete column definitions (39 rows)
2. foreign-key-relationships.csv - All FK relationships (7 rows)