

## SQLite Database Schema for Draft Feedback System

### 1. drafts Table

Stores each draft document.

```
CREATE TABLE drafts (  
    draft_id INTEGER PRIMARY KEY AUTOINCREMENT,  
    title TEXT NOT NULL,  
    description TEXT,  
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP  
);
```

---

- Primary Key: draft\_id
- Relationships: One-to-many with sections and submissions

### 2. sections Table

Represents individual sections within a draft.

```
CREATE TABLE sections (  
    section_id INTEGER PRIMARY KEY AUTOINCREMENT,  
    draft_id INTEGER NOT NULL,  
    section_title TEXT NOT NULL,  
    section_content TEXT,  
    FOREIGN KEY (draft_id) REFERENCES drafts(draft_id)  
);
```

---

- Primary Key: section\_id
- Foreign Key: draft\_id → drafts.draft\_id
- Relationships: One-to-many with comments

### 3. users Table

Stores personal or organization details of the commenter.

```
CREATE TABLE users (  
    user_id INTEGER PRIMARY KEY AUTOINCREMENT,  
    first_name TEXT NOT NULL,  
    middle_name TEXT,
```

```

last_name TEXT NOT NULL,
email TEXT NOT NULL,
phone TEXT,
address TEXT,
country TEXT,
state TEXT,
organization_name TEXT,
is_organization BOOLEAN DEFAULT 0,
industry TEXT CHECK(industry IN ('Education', 'Healthcare', 'Finance', 'Technology',
'Government', 'Non-Profit', 'Other'))
);

```

- Primary Key: user\_id
- Relationships: One-to-many with comments and submissions

#### 4. comments Table

Captures feedback on individual sections.

```

CREATE TABLE comments (
    comment_id INTEGER PRIMARY KEY AUTOINCREMENT,
    submission_id INTEGER NOT NULL, -- Critical: now linked to submissions
    section_id INTEGER NOT NULL,
    action_type TEXT NOT NULL CHECK(action_type IN ('In Agreement', 'Suggest removal',
'Suggest modification', 'Implicit Agreement')),
    comment_text TEXT,
    created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
    updated_at DATETIME
    sentiment_label TEXT, -- AI analysis field
    sentiment_score REAL, -- AI analysis field
    ai_summary TEXT, -- AI analysis field
    FOREIGN KEY (submission_id) REFERENCES submissions(submission_id),

```

*FOREIGN KEY (section\_id) REFERENCES sections(section\_id)*

);

- Primary Key: comment\_id
- Foreign Keys: user\_id → users.user\_id, section\_id → sections.section\_id
- Relationships: Many-to-one with users and sections

## 5. submissions Table

Tracks finalized feedback submissions with OTP verification.

```
CREATE TABLE submissions (  
  submission_id INTEGER PRIMARY KEY AUTOINCREMENT,  
  user_id INTEGER NOT NULL,  
  draft_id INTEGER NOT NULL,  
  otp_verified BOOLEAN DEFAULT 0,  
  submission_status TEXT NOT NULL DEFAULT 'completed',  
  submitted_at DATETIME DEFAULT CURRENT_TIMESTAMP,  
  FOREIGN KEY (user_id) REFERENCES users(user_id),  
  FOREIGN KEY (draft_id) REFERENCES drafts(draft_id)  
);
```

- Primary Key: submission\_id
- Foreign Keys: user\_id → users.user\_id, draft\_id → drafts.draft\_id

## Entity Relationships Overview

Table	Related To	Relationship Type
drafts	sections	One draft → many sections
drafts	submissions	One draft → many submissions
sections	comments	One section → many comments
users	comments	One user → many comments
users	submissions	One user → many submissions

