

SANZEN Legal AI: Database Schema

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1. Introduction

This document provides a detailed overview of the database schema for the SANZEN Legal AI platform. The database is a PostgreSQL instance hosted on Supabase. The schema is managed using Drizzle ORM, although there are some discrepancies between the Drizzle schema and the actual database schema that need to be addressed.

2. Tables

This section describes the main tables in the database and their columns.

2.1. users

This table stores information about users of the platform.

Column	Type	Description
<code>id</code>	INTEGER	Primary Key. Auto-incrementing integer ID.
<code>openId</code>	TEXT	The user's unique string identifier (e.g., "sanzen-admin-001").
<code>email</code>	TEXT	The user's email address.
<code>name</code>	TEXT	The user's full name.
<code>createdAt</code>	TIMESTAMPTZ	The timestamp when the user was created.
<code>updatedAt</code>	TIMESTAMPTZ	The timestamp when the user was last updated.

2.2. consultations

This table stores information about legal consultations.

Column	Type	Description
<code>id</code>	INTEGER	Primary Key. Auto-incrementing integer ID.
<code>user_id</code>	TEXT	Foreign Key to <code>users.openId</code> . The ID of the user who created the consultation.
<code>title</code>	TEXT	The title of the consultation.
<code>category</code>	TEXT	The category of the consultation (e.g., “Rental Dispute”).
<code>language</code>	TEXT	The language of the consultation (e.g., “en”).
<code>status</code>	TEXT	The status of the consultation (e.g., “active”).
<code>createdAt</code>	TIMESTAMPTZ	The timestamp when the consultation was created.
<code>updatedAt</code>	TIMESTAMPTZ	The timestamp when the consultation was last updated.

2.3. messages

This table stores the messages exchanged during a legal consultation.

Column	Type	Description
<code>id</code>	INTEGER	Primary Key. Auto-incrementing integer ID.
<code>consultation_id</code>	INTEGER	Foreign Key to <code>consultations.id</code> . The ID of the consultation the message belongs to.
<code>role</code>	TEXT	The role of the message sender (e.g., “user”, “assistant”).
<code>content</code>	TEXT	The content of the message.
<code>createdAt</code>	TIMESTAMPTZ	The timestamp when the message was created.

3. Relationships

The main relationships between the tables are:

- A `user` can have multiple `consultations`.
- A `consultation` belongs to one `user`.
- A `consultation` can have multiple `messages`.
- A `message` belongs to one `consultation`.

4. Drizzle ORM Schema Discrepancy

Important: The Drizzle ORM schema defined in `drizzle/schema.ts` is currently configured for MySQL, while the actual database is PostgreSQL. This has caused several issues and needs to be rectified. The long-term solution is to rewrite the Drizzle schema to use the `pgTable` functions from `drizzle-orm/pg-core` and ensure that the schema accurately reflects the PostgreSQL database.