

SQL Database Structure (ERD)

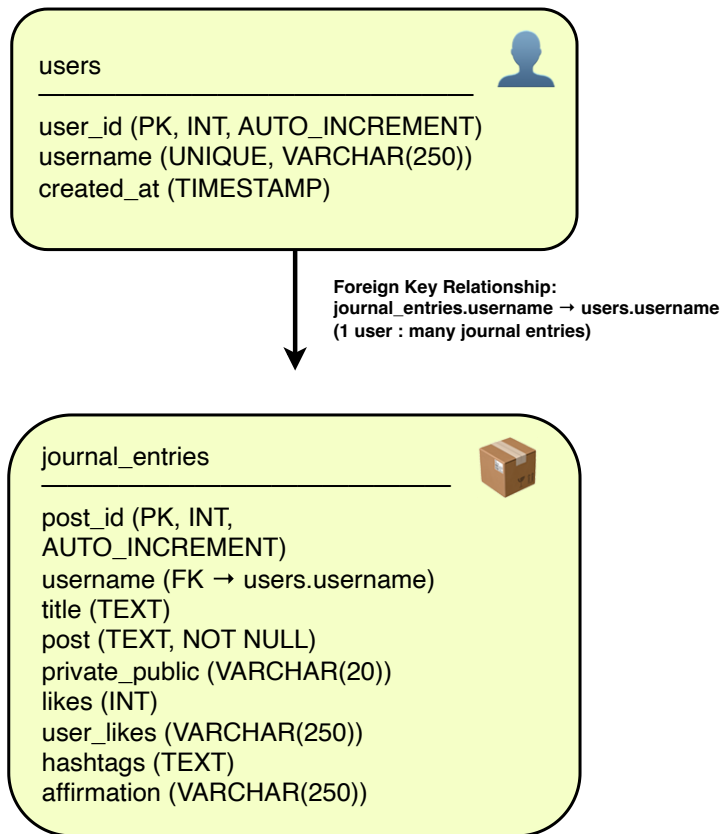


Figure 3: SQL Database Structure (Entity Relationship Diagram)

This diagram illustrates the structure of OurVoice's SQL database.

The system uses two tables:

- **users**: stores each user's account, with a unique username.
- **journal_entries**: stores every post made by users, including hashtags, sentiment results, and affirmations.

A foreign key relationship links `journal_entries.username` → `users.username`, meaning:

- One user can have many journal entries
- Each journal entry belongs to exactly one user

This database design ensures data consistency and supports all app features (public feed, private posts, likes, hashtag recommendations, support hub routing, and affirmations).