Eyes Unclouded App – SQL Schema (Mobile-Friendly)

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# Relational SQL Schema for Full App Data Model

This schema includes all entities and relationships for tracking users, symbolic virtues, emotional logs, microexpression decoding, and book-linked perceptions.

## Users

CREATE TABLE Users (  
 user\_id VARCHAR(36) PRIMARY KEY,  
 username VARCHAR(50) NOT NULL,  
 role VARCHAR(30),  
 class VARCHAR(50),  
 created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP  
);

## UserNotes

CREATE TABLE UserNotes (  
 note\_id VARCHAR(36) PRIMARY KEY,  
 user\_id VARCHAR(36),  
 virtue\_id VARCHAR(36),  
 note\_text TEXT,  
 timestamp DATETIME DEFAULT CURRENT\_TIMESTAMP,  
 FOREIGN KEY (user\_id) REFERENCES Users(user\_id),  
 FOREIGN KEY (virtue\_id) REFERENCES Virtues(virtue\_id)  
);

## Virtues

CREATE TABLE Virtues (  
 virtue\_id VARCHAR(36) PRIMARY KEY,  
 name VARCHAR(100),  
 description TEXT,  
 category VARCHAR(50)  
);

## Expressions

CREATE TABLE Expressions (  
 expression\_id VARCHAR(36) PRIMARY KEY,  
 name VARCHAR(100),  
 description TEXT,  
 associated\_emotion VARCHAR(50)  
);

## VirtueExpressionLink

CREATE TABLE VirtueExpressionLink (  
 id VARCHAR(36) PRIMARY KEY,  
 virtue\_id VARCHAR(36),  
 expression\_id VARCHAR(36),  
 context\_note TEXT,  
 FOREIGN KEY (virtue\_id) REFERENCES Virtues(virtue\_id),  
 FOREIGN KEY (expression\_id) REFERENCES Expressions(expression\_id)  
);

## Sources

CREATE TABLE Sources (  
 source\_id VARCHAR(36) PRIMARY KEY,  
 title VARCHAR(200),  
 author VARCHAR(100),  
 type VARCHAR(50),  
 year INT  
);

## SourceVirtueLink

CREATE TABLE SourceVirtueLink (  
 id VARCHAR(36) PRIMARY KEY,  
 source\_id VARCHAR(36),  
 virtue\_id VARCHAR(36),  
 insight\_note TEXT,  
 FOREIGN KEY (source\_id) REFERENCES Sources(source\_id),  
 FOREIGN KEY (virtue\_id) REFERENCES Virtues(virtue\_id)  
);

## Chapters

CREATE TABLE Chapters (  
 chapter\_id VARCHAR(36) PRIMARY KEY,  
 title VARCHAR(150),  
 summary TEXT,  
 audio\_filename VARCHAR(200),  
 scene\_tags TEXT  
);

## PerceptionEntries

CREATE TABLE PerceptionEntries (  
 entry\_id VARCHAR(36) PRIMARY KEY,  
 user\_id VARCHAR(36),  
 chapter\_id VARCHAR(36),  
 emotion VARCHAR(50),  
 expression\_tag VARCHAR(100),  
 insight\_text TEXT,  
 timestamp DATETIME DEFAULT CURRENT\_TIMESTAMP,  
 role\_type VARCHAR(30),  
 FOREIGN KEY (user\_id) REFERENCES Users(user\_id),  
 FOREIGN KEY (chapter\_id) REFERENCES Chapters(chapter\_id)  
);