CREATE TABLE conversations (

conversation\_id INT AUTO\_INCREMENT PRIMARY KEY,

type ENUM('one\_to\_one', 'group') DEFAULT 'one\_to\_one'

);

CREATE TABLE conversation\_members (

conversation\_id INT NOT NULL,

user\_id INT NOT NULL,

PRIMARY KEY (conversation\_id, user\_id),

FOREIGN KEY (conversation\_id) REFERENCES conversations(conversation\_id) ON DELETE CASCADE,

FOREIGN KEY (user\_id) REFERENCES users\_account(user\_id) ON DELETE CASCADE

);

CREATE TABLE users\_account (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_name VARCHAR(50) NOT NULL UNIQUE,

password\_hash VARCHAR(255) NOT NULL,

status ENUM('online', 'offline') DEFAULT 'offline'

);

CREATE TABLE messages (

message\_id INT AUTO\_INCREMENT PRIMARY KEY,

sender\_id INT NOT NULL,

receiver\_id INT NOT NULL,

content TEXT,

FOREIGN KEY (sender\_id) REFERENCES users\_account(user\_id) ON DELETE CASCADE,

FOREIGN KEY (receiver\_id) REFERENCES users\_account(user\_id) ON DELETE CASCADE

);

CREATE TABLE friendships (

user\_id INT NOT NULL,

friend\_id INT NOT NULL,

status ENUM('pending', 'accepted', 'blocked') DEFAULT 'pending',

PRIMARY KEY (user\_id, friend\_id),

FOREIGN KEY (user\_id) REFERENCES users\_account(user\_id) ON DELETE CASCADE,

FOREIGN KEY (friend\_id) REFERENCES users\_account(user\_id) ON DELETE CASCADE

);