  -- Table: userinfo

CREATE TABLE userinfo (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    username VARCHAR(255) NOT NULL,

    password VARCHAR(255) NOT NULL,

    house\_number VARCHAR(50) NOT NULL,

    achievement VARCHAR(255),

    role VARCHAR(50) NOT NULL DEFAULT 'Owner',

    referral VARCHAR(255)

);

-- Table: devices

CREATE TABLE devices (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    device\_name VARCHAR(255) NOT NULL,

    online\_status ENUM('on', 'off') NOT NULL

);

-- Insert sample data into devices

INSERT INTO devices (device\_name, online\_status) VALUES

    ('Smart Light', 'on'),

    ('Thermostat', 'off'),

    ('Smart Plug', 'on'),

    ('Security Camera', 'on');

-- Table: test (For energy consumption tracking)

CREATE TABLE test (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    energy\_consumption DOUBLE NOT NULL,

    time\_stamp DATETIME NOT NULL

);

-- Insert sample data into test

INSERT INTO test (energy\_consumption, time\_stamp) VALUES

    (15, '2024-01-01 08:00:00'),

    (225, '2024-01-01 09:00:00'),

    (50625, '2024-01-01 10:00:00'),

    (2555555555, '2024-01-01 11:00:00'),

    (8888888888888888888888888888, '2024-01-01 12:00:00'),

    (2, '2024-01-01 08:00:00'),

    (4, '2024-01-01 09:00:00'),

    (16, '2024-01-01 10:00:00');

-- Table: device (For storing device details)

CREATE TABLE device (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    devicename VARCHAR(255) NOT NULL,

    pin INT NOT NULL UNIQUE,

    standard\_energy DECIMAL(10,2) NOT NULL,

    status ENUM('ON', 'OFF') DEFAULT 'OFF'

);

-- Table: devicecontrol (For controlling devices)

CREATE TABLE devicecontrol (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    pin INT NOT NULL,

    standard\_energy DECIMAL(10,2) NOT NULL,

    startingontime DATETIME NOT NULL,

    endingofftime DATETIME DEFAULT NULL,

    duration INT DEFAULT NULL, -- Duration in minutes

    FOREIGN KEY (pin) REFERENCES device(pin) ON DELETE CASCADE

);

-- Ensure pin uniqueness in device table

ALTER TABLE device ADD CONSTRAINT unique\_pin UNIQUE (pin);