**Create Database:**

CREATE DATABASE smart\_waste\_management;

USE smart\_waste\_management;

Create Users Table:

CREATE TABLE Users (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

location VARCHAR(255),

subscription\_status TINYINT DEFAULT 0 -- 0 = inactive, 1 = active

);

Create Subscription Table:

CREATE TABLE Subscription (

subscription\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT,

start\_date DATE,

end\_date DATE,

amount DECIMAL(10, 2) NOT NULL,

status TINYINT DEFAULT 1, -- 0 = inactive, 1 = active

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

**Create Waste\_Types Table:**

CREATE TABLE Waste\_Types (

waste\_type\_id INT AUTO\_INCREMENT PRIMARY KEY,

waste\_name VARCHAR(255) NOT NULL,

description TEXT

);

**Create Notifications Table:**

CREATE TABLE Notifications (

notification\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT,

waste\_type\_id INT,

collection\_date DATE,

sent TINYINT DEFAULT 0, -- 0 = not sent, 1 = sent

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (waste\_type\_id) REFERENCES Waste\_Types(waste\_type\_id)

);

**Create Leaderboard Table:**

**CREATE TABLE Leaderboard (**

**leaderboard\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**user\_id INT,**

**points INT DEFAULT 0,**

**rank INT DEFAULT 0,**

**FOREIGN KEY (user\_id) REFERENCES Users(user\_id)**

**);**

Create Special\_Pickups Table:  
**CREATE TABLE Special\_Pickups (**

**request\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**user\_id INT,**

**item\_description TEXT NOT NULL,**

**request\_date DATE,**

**status TINYINT DEFAULT 0, -- 0 = pending, 1 = completed**

**FOREIGN KEY (user\_id) REFERENCES Users(user\_id)**

**);**

Create Feedback Table:  
**CREATE TABLE Feedback (**

**feedback\_id INT AUTO\_INCREMENT PRIMARY KEY,**

**user\_id INT,**

**feedback\_text TEXT NOT NULL,**

**feedback\_date DATE,**

**FOREIGN KEY (user\_id) REFERENCES Users(user\_id)**

**);**

**Sample Insert for Waste Types:**

**INSERT INTO Waste\_Types (waste\_name, description)**

**VALUES**

**('General Waste', 'Items that cannot be recycled or composted.'),**

**('Recycling', 'Paper, plastics, metals, and glass that can be recycled.'),**

**('Compost', 'Organic waste like food scraps, garden waste, etc.'),**

**('Hazardous Waste', 'Items like batteries, electronics, chemicals that require special disposal.');**