**MYSQL SCRIPTS**

-- CREATE DATABASE water\_and\_sanitation;

-- CREATE TABLE watersources (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- source VARCHAR(100),

-- location VARCHAR(100),

-- `capacity` INT -- Backticks around capacity to avoid conflicts

-- );

-- CREATE TABLE water\_quality\_tests (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- test\_date DATE,

-- lead\_level DECIMAL(5,2),

-- bacteria\_level DECIMAL(5,2),

-- quality\_score DECIMAL(5,2)

-- );

-- SELECT \* FROM watersources

-- USE water\_and\_sanitation;

-- SELECT \* FROM watersources;

-- USE water\_and\_sanitation;

-- CREATE TABLE maintenance\_schedule (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- last\_maintenance\_date DATE,

-- maintenance\_type VARCHAR(50)

-- );

-- CREATE TABLE population\_data (

-- community\_ID INT,

-- population\_size INT,

-- average\_waterusage\_per\_household INT

-- );

--

-- DROP TABLE watersources;

-- DROP TABLE maintenance\_schedule;

-- DROP TABLE water\_quality\_tests;

-- CREATE TABLE watersources (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- source VARCHAR(50),

-- location VARCHAR(100),

-- `capacity` INT

-- );

-- INSERT INTO watersources (id, source, location, capacity)

-- VALUES

-- (1, 'R.Chania', 'Thika', 43500000),

-- (2, 'Sasumua Dam', 'Thika', 15900000),

-- (3,'Thika Dam', 'Thika', 70000000),

-- (4, 'Boreholes', 'Nairobi', 50000000);

-- CREATE TABLE water\_quality\_tests (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- source\_id INT,

-- test\_date DATE,

-- lead\_level\_ppb DECIMAL(5, 2),

-- bacteria\_level\_cfu DECIMAL(5, 2),

-- quality\_score DECIMAL(5, 2),

-- FOREIGN KEY (source\_id) REFERENCES watersources(id)

-- );

-- CREATE TABLE maintenancedata (

-- id INT AUTO\_INCREMENT PRIMARY KEY,

-- source\_id INT,

-- last\_maintenance\_date DATE,

-- maintenance\_type VARCHAR(50),

-- FOREIGN KEY (source\_id) REFERENCES watersources(id)

-- );

INSERT INTO water\_quality\_tests (id, source\_id, test\_date, lead\_level\_ppb, bacteria\_level\_cfu, Quality\_score)

-- VALUES

-- (1, 1, '2022-02-27', 2.5, 60.2, 40.0),

-- (2, 2, '2023-05-26', 1.5, 20.0, 80.0),

-- (3, 3, '2022-01-16', 3.3, 40.2, 60.0),

-- (4, 4, '2021-06-24', 0.8, 10.2, 90.0);

-- INSERT INTO population\_data (community\_id, population\_size, average\_waterusage\_per\_household)

-- VALUES

-- (1, 434208, 500),

-- (2, 988808, 700),

-- (3, 268276, 300),

-- (5, 185777, 400),

-- (6, 197489, 400),

-- (7, 189536, 600),

-- (8, 206564, 500),

-- (9, 626482, 700),

-- (10, 210423, 300),

-- (11, 308854, 600);

-- INSERT INTO maintenancedata (id, source\_id, last\_maintenance\_date, maintenance\_type)

-- VALUES

-- (1,1, '2024-01-12', 'cleaning'),

-- (2,2, '2022-11-27', 'filter repairement'),

-- (3,3, '2023-06-15', 'repair'),

-- (4,4, '2024-07-01', 'repair');