Craigslist Clone - Full SQL Schema Setup Script (With Drop Statements)

-- Drop tables if they exist (in reverse dependency order)  
DROP TABLE IF EXISTS postcategories;  
DROP TABLE IF EXISTS posts;  
DROP TABLE IF EXISTS categories;  
DROP TABLE IF EXISTS users;  
DROP TABLE IF EXISTS regions;  
  
-- Create Regions table  
CREATE TABLE regions (  
 id SERIAL PRIMARY KEY,  
 name TEXT NOT NULL  
);  
  
-- Create Users table  
CREATE TABLE users (  
 id SERIAL PRIMARY KEY,  
 username TEXT NOT NULL,  
 email TEXT NOT NULL,  
 preferred\_region\_id INTEGER REFERENCES regions(id)  
);  
  
-- Create Categories table  
CREATE TABLE categories (  
 id SERIAL PRIMARY KEY,  
 name TEXT NOT NULL  
);  
  
-- Create Posts table  
CREATE TABLE posts (  
 id SERIAL PRIMARY KEY,  
 title TEXT NOT NULL,  
 description TEXT,  
 user\_id INTEGER REFERENCES users(id),  
 region\_id INTEGER REFERENCES regions(id),  
 created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP  
);  
  
-- Create PostCategories join table (many-to-many)  
CREATE TABLE postcategories (  
 post\_id INTEGER REFERENCES posts(id),  
 category\_id INTEGER REFERENCES categories(id),  
 PRIMARY KEY (post\_id, category\_id)  
);  
  
-- Optional seed data  
INSERT INTO regions (name) VALUES ('San Francisco'), ('Seattle'), ('Atlanta');  
INSERT INTO categories (name) VALUES ('Housing'), ('Jobs'), ('For Sale');  
  
INSERT INTO users (username, email, preferred\_region\_id) VALUES  
('jdoe', 'jdoe@example.com', 1),  
('asmith', 'asmith@example.com', 2),  
('mjones', 'mjones@example.com', 3);  
  
INSERT INTO posts (title, description, user\_id, region\_id) VALUES  
('2 Bedroom Apartment', 'Great location in downtown.', 1, 1),  
('Full Stack Developer', 'Remote position, good pay.', 2, 2),  
('Mountain Bike for Sale', 'Hardly used, like new.', 3, 3);  
  
INSERT INTO postcategories (post\_id, category\_id) VALUES  
(1, 1),  
(2, 2),  
(3, 3);