-- SQL Schema for ALX Airbnb-style Database

-- Create User table

CREATE TABLE User (

id SERIAL PRIMARY KEY,

name VARCHAR(100) NOT NULL,

email VARCHAR(255) UNIQUE NOT NULL,

password VARCHAR(255) NOT NULL

);

-- Create Property table

CREATE TABLE Property (

id SERIAL PRIMARY KEY,

title VARCHAR(150) NOT NULL,

description TEXT,

location VARCHAR(150),

price\_per\_night DECIMAL(10, 2) NOT NULL,

user\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES User(id) ON DELETE CASCADE

);

-- Create Booking table

CREATE TABLE Booking (

id SERIAL PRIMARY KEY,

start\_date DATE NOT NULL,

end\_date DATE NOT NULL,

user\_id INT NOT NULL,

property\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES User(id) ON DELETE CASCADE,

FOREIGN KEY (property\_id) REFERENCES Property(id) ON DELETE CASCADE

);

-- Create Review table

CREATE TABLE Review (

id SERIAL PRIMARY KEY,

rating INT CHECK (rating >= 1 AND rating <= 5),

comment TEXT,

user\_id INT NOT NULL,

property\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES User(id) ON DELETE CASCADE,

FOREIGN KEY (property\_id) REFERENCES Property(id) ON DELETE CASCADE

);

-- Indexes for faster joins and filtering

CREATE INDEX idx\_property\_user\_id ON Property(user\_id);

CREATE INDEX idx\_booking\_user\_id ON Booking(user\_id);

CREATE INDEX idx\_booking\_property\_id ON Booking(property\_id);

CREATE INDEX idx\_review\_user\_id ON Review(user\_id);

CREATE INDEX idx\_review\_property\_id ON Review(property\_id);