DROP TABLE IF EXISTS Rental\_Agreement;

DROP TABLE IF EXISTS Occupation;

DROP TABLE IF EXISTS Property;

DROP TABLE IF EXISTS Resident;

DROP TABLE IF EXISTS City\_Subsidy\_Rate;

CREATE TABLE City\_Subsidy\_Rate

(

CityID INT NOT NULL,

City VARCHAR(50) NOT NULL,

Region VARCHAR(50) NOT NULL,

CityName VARCHAR(50) NOT NULL,

PRIMARY KEY (CityID)

);

CREATE TABLE Resident

(

ResidentID INT NOT NULL,

Age INT NOT NULL,

Name VARCHAR(100) NOT NULL,

HousingStatus VARCHAR(50) NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE,

PRIMARY KEY (ResidentID)

);

CREATE TABLE Property

(

PropertyID INT NOT NULL,

PropertyType VARCHAR(50) NOT NULL,

HomelessRate DECIMAL(5,2) NOT NULL,

ResidentID INT,

SubsidyAmount DECIMAL(10,2) NOT NULL,

CityID INT NOT NULL,

PRIMARY KEY (PropertyID),

FOREIGN KEY (ResidentID) REFERENCES Resident(ResidentID),

FOREIGN KEY (CityID) REFERENCES City\_Subsidy\_Rate(CityID)

);

CREATE TABLE Rental\_Agreement

(

ResidentID INT NOT NULL,

PropertyID INT NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE,

SubsidyAmount DECIMAL(10,2) NOT NULL,

DepositAmount DECIMAL(10,2) NOT NULL,

PaymentFrequency VARCHAR(20) NOT NULL,

PRIMARY KEY (ResidentID, PropertyID, StartDate),

FOREIGN KEY (ResidentID) REFERENCES Resident(ResidentID),

FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID)

);

CREATE TABLE Occupation

(

OccupationID INT NOT NULL,

JobTitle VARCHAR(100) NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE,

ResidentID INT NOT NULL,

PRIMARY KEY (OccupationID),

FOREIGN KEY (ResidentID) REFERENCES Resident(ResidentID)

);

INSERT INTO City\_Subsidy\_Rate (CityID, City, Region, CityName) VALUES

(1, 'Halifax', 'Nova Scotia', 'Halifax'),

(2, 'Toronto', 'Ontario', 'Toronto'),

(3, 'Vancouver', 'British Columbia', 'Vancouver');

INSERT INTO Resident (ResidentID, Age, Name, HousingStatus, StartDate, EndDate) VALUES

(101, 30, 'Connor McDavid', 'Housed', '2023-01-01', NULL),

(102, 25, 'Auston Matthews', 'Homeless', '2023-02-01', '2023-12-31'),

(103, 40, 'Cale Makar', 'Housed', '2022-06-15', NULL);

INSERT INTO Property (PropertyID, PropertyType, HomelessRate, ResidentID, SubsidyAmount, CityID) VALUES

(201, 'Apartment', 5.5, 101, 500.00, 1),

(202, 'House', 3.2, NULL, 300.00, 2),

(203, 'Condo', 4.0, 103, 400.00, 3);

INSERT INTO Rental\_Agreement (ResidentID, PropertyID, StartDate, EndDate, SubsidyAmount, DepositAmount, PaymentFrequency) VALUES

(101, 201, '2023-01-01', '2023-12-31', 200.00, 1000.00, 'Monthly'),

(103, 203, '2022-06-15', NULL, 150.00, 800.00, 'Monthly'),

(102, 202, '2023-02-01', '2023-06-30', 100.00, 500.00, 'Weekly');

INSERT INTO Occupation (OccupationID, JobTitle, StartDate, EndDate, ResidentID) VALUES

(301, 'Engineer', '2023-01-01', NULL, 101),

(302, 'Teacher', '2023-02-01', '2023-11-30', 102),

(303, 'Nurse', '2022-06-15', NULL, 103),

(304, 'Consultant', '2024-01-01', NULL, 101);