

CPSC 304 Project Cover Page

Milestone #: 2

Date: **Oct 20th, 2023**

Group Number: **37**

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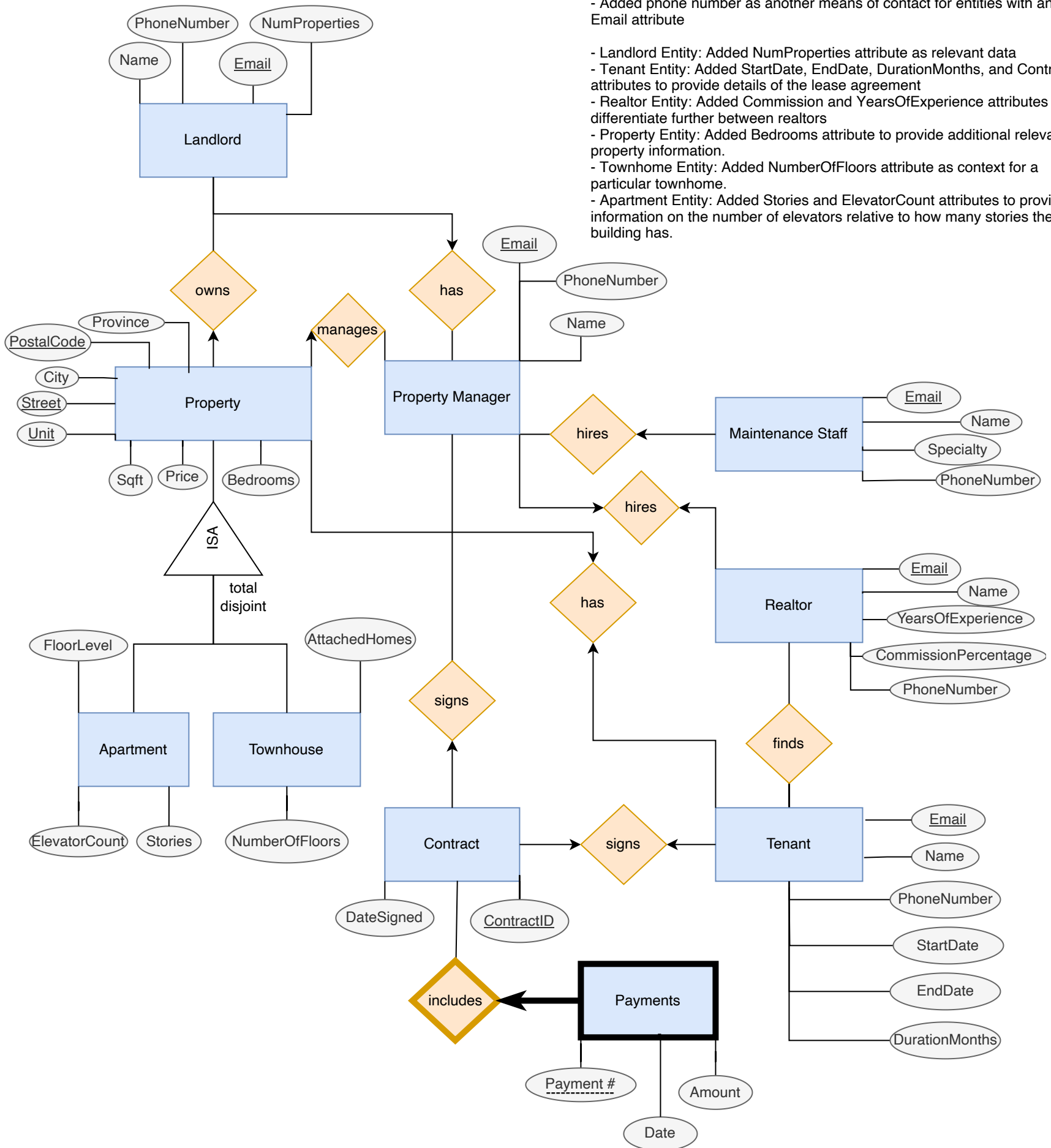
By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Changes:

- Removed IDs where relevant and opted for Emails as the primary key to prevent redundant
- Ensured all entities used singular verbiage for consistency
- Expanded the Address field for property to Unit, Street, City, Province and Postal Code
- Added phone number as another means of contact for entities with an Email attribute

- Landlord Entity: Added NumProperties attribute as relevant data
- Tenant Entity: Added StartDate, EndDate, DurationMonths, and ContractID attributes to provide details of the lease agreement
- Realtor Entity: Added Commission and YearsOfExperience attributes to differentiate further between realtors
- Property Entity: Added Bedrooms attribute to provide additional relevant property information.
- Townhome Entity: Added NumberOfFloors attribute as context for a particular townhome.
- Apartment Entity: Added Stories and ElevatorCount attributes to provide information on the number of elevators relative to how many stories the building has.



Overview:

As the city of Vancouver continues to grow, the demand for rental housing skyrockets as people seek out accommodation, prompting a parallel surge in the need for property management teams.

Domain & Specification:

The application's domain focuses on providing Property Managers with a dashboard for efficient day-to-day operations and stakeholder management. These stakeholders include landlords, tenants, realtors, and maintenance staff. The core functionalities of our database surround the ability to add, remove, modify, and view stakeholder data, catering to the specific needs of property management teams.

Table Definition:

Landlord (Email: VARCHAR, Name: VARCHAR, PhoneNumber: INTEGER, NumProperties: INTEGER)

PropertyManager (Email: VARCHAR, Name: VARCHAR, PhoneNumber: INTEGER)

Tenant (Email: VARCHAR, Name: VARCHAR, PhoneNumber: INTEGER, StartDate: DATE, EndDate: DATE, DurationMonths: INTEGER, **ContractID**: INTEGER)

Realtor (Email: VARCHAR, Name: VARCHAR, PhoneNumber: INTEGER, YearsOfExperience: INTEGER, CommissionPercentage: NUMBER)

MaintenanceStaff (Email: VARCHAR, Name: VARCHAR, Speciality: VARCHAR, PhoneNumber: INTEGER)

Property (Unit: VARCHAR, Street: VARCHAR, City: VARCHAR, Province: VARCHAR, PostalCode: CHAR(6), Price: INTEGER, Sqft: INTEGER, Bedrooms: INTEGER)

Apartment (**Unit**: VARCHAR, **Street**: VARCHAR, **PostalCode**: CHAR(6), FloorLevel: INTEGER, Stories: INTEGER, ElevatorCount: INTEGER)

Townhome (**Unit**: VARCHAR, **Street**: VARCHAR, **PostalCode**: CHAR(6), AttachedHomes: INTEGER, NumberOfFloors: INTEGER)

Contract (ContractID: INTEGER, DateSigned: DATE)

Payment (**ContractID**: INTEGER, PaymentNumber: INTEGER, Amount: NUMBER, Date: DATE)

PKs, CKs, FKs & Constraints

- Landlord
 - PRIMARY KEY (Email)
 - CANDIDATE KEY (PhoneNumber)
- Property Management Team
 - PRIMARY KEY (Email)
 - CANDIDATE KEY (PhoneNumber)
- Tenant
 - PRIMARY KEY (Email)
 - FOREIGN KEY (ContractID)
 - CANDIDATE KEY (PhoneNumber)
 - NOT NULL (ContractID)
- Realtor
 - PRIMARY KEY (Email)
 - CANDIDATE KEY (PhoneNumber)
- Property
 - PRIMARY KEY (Unit, Street, PostalCode)
- Apartment
 - PRIMARY KEY (Unit, Street, PostalCode)
 - FOREIGN KEY (Unit, Street, PostalCode)
- Townhome
 - PRIMARY KEY (Unit, Street, PostalCode)
 - FOREIGN KEY (Unit, Street, PostalCode)
- Contract
 - PRIMARY KEY (ContractID)
- Payment
 - PRIMARY KEY (ContractID, Number)
 - FOREIGN KEY (ContractID)
- Maintenance Staff
 - PRIMARY KEY (Email)
 - CANDIDATE KEY (PhoneNumber)

Functional Dependencies

- Landlord(Email, Name, PhoneNumber, NumProperties)
 - Email → Name, PhoneNumber, NumProperties
- PropertyManager(Email, Name, PhoneNumber)
 - Email → Name, PhoneNumber
- Tenant(Email, Name, PhoneNumber, StartDate, EndDate, DurationMonths, **ContractID**)
 - Email → Name, PhoneNumber, StartDate, EndDate, DurationMonths, ContractID
 - StartDate, EndDate → DurationMonths
- Realtor(Email, Name, PhoneNumber, YearsOfExperience, CommissionPercentage)
 - Email → Name, PhoneNumber, YearsOfExperience, CommissionPercentage
 - YearsOfExperience → CommissionPercentage
- Property(Unit, Street, City, Province, PostalCode, Price, Sqft, Bedrooms)
 - Unit, Street, PostalCode → City, Province, Price, Sqft, Bedrooms
 - Sqft, Bedrooms → Price
- Apartment(**Unit**, **Street**, **PostalCode**, FloorLevel, Stories, ElevatorCount)
 - Unit, Street, PostalCode → FloorLevel, Stories, ElevatorCount
- Townhome(**Unit**, **Street**, **PostalCode**, AttachedHomes, NumberOfFloors)
 - Unit, Street, PostalCode → AttachedHomes, NumberOfFloors
- Contract(ContractID, DateSigned)
 - ContractID → DateSigned
- Payment(**ContractID**, PaymentNumber, Amount, Date)
 - ContractID, PaymentNumber → PaymentAmount, PaymentDate
- MaintenanceStaff(Email, Name, Speciality, PhoneNumber)
 - Email → Name, Speciality, PhoneNumber

Normalization

Normalization from Tenant:

Tenant(Email, Name, PhoneNumber, ContractID, StartDate, EndDate)

LeaseLength(StartDate, EndDate, DurationMonths)

Tenant

FD: Email \rightarrow Name, PhoneNumber, StartDate, EndDate,
DurationMonths, Contract ID

StartDate, EndDate \rightarrow DurationMonths

\hookrightarrow violates BCNF

Email \rightarrow { Email, Name, PhoneNumber, StartDate,
EndDate, DurationMonths, Contract ID }

StartDate, EndDate \rightarrow { StartDate, EndDate, DurationMonths }



R1 (Email, Name, PhoneNumber, ContractID, StartDate, EndDate)

R2 (StartDate, EndDate, DurationMonths)

Normalization from Realtor:

Realtor(Email, Name, PhoneNumber, YearsOfExperience)

RealtorExperience(YearsOfExperience, CommissionPercentage)

Realtor

FDs:

Email \rightarrow Name, PhoneNumber, YearsOfExperience, CommissionPercentage

YearsOfExperience \rightarrow CommissionPercentage

~ \rightarrow violates BCNF

Email⁺ = { Email, Name, PhoneNumber, YearsOfExperience, CommissionPercentage }

YearsOfExperience⁺ = { YearsOfExperience, CommissionPercentage }



Realtor (Email, Name, PhoneNumber, YearsOfExperience)

RealtorExperience (YearsOfExperience, CommissionPercentage)

Normalization from Property:

Property(Unit, Street, City, Province, PostalCode, Sqft, Bedrooms)

PropertyValue(Sqft, Bedrooms, Price)

Property

FDs: Unit, Street, PostalCode \rightarrow City, Province, Sqft, Bedrooms, Price
Sqft, Bedrooms \rightarrow Price — violates BCNF

Unit, Street, PostalCode⁺ = { Unit, Street, PostalCode, City, Province }

Sqft, Bedrooms⁺ = { Sqft, Bedrooms, Price }



Property (Unit, Street, PostalCode, City, Province, Sqft, Bedrooms)
Property Value (Sqft, Bedrooms, Price)

New Table Definitions

Landlord(Email, Name, PhoneNumber, NumProperties)

PropertyManager(Email, Name, PhoneNumber)

Tenant(Email, Name, PhoneNumber, **ContractID**, StartDate, EndDate)

LeaseLength(StartDate, EndDate, DurationMonths)

Realtor(Email, Name, PhoneNumber, YearsOfExperience)

RealtorExperience(YearsOfExperience, CommissionPercentage)

Property(Unit, Street, City, Province, PostalCode, Sqft, Bedrooms)

PropertyValue(Sqft, Bedrooms, Price)

Apartment(**Unit**, **Street**, **PostalCode**, FloorLevel, Stories, ElevatorCount)

Townhome(**Unit**, **Street**, **PostalCode**, AttachedHomes, NumberOfFloors)

Contract(ContractID, DateSigned)

Payment(**ContractID**, PaymentNumber, Amount, Date)

MaintenanceStaff(Email, Name, Speciality, PhoneNumber)

SQL DDL Statements

CREATE TABLE Landlord (

Email	VARCHAR PRIMARY KEY,
Name	VARCHAR,
PhoneNumber	INTEGER,
NumProperties	INTEGER);

CREATE TABLE PropertyManager (

Email	VARCHAR PRIMARY KEY,
Name	VARCHAR,
PhoneNumber	INTEGER);

CREATE TABLE Tenant (

Email	VARCHAR PRIMARY KEY,
Name	VARCHAR,
PhoneNumber	INTEGER,
StartDate	DATE,
EndDate	DATE,
ContractID	INTEGER,
FOREIGN KEY (ContractID) REFERENCES Contract(ContractID));	

CREATE TABLE LeaseLength (

StartDate	DATE,
EndDate	DATE,
DurationMonths	INTEGER,
PRIMARY KEY (StartDate, EndDate));	

CREATE TABLE Realtor (

Email	VARCHAR PRIMARY KEY,
Name	VARCHAR,
PhoneNumber	INTEGER,
YearsOfExperience	INTEGER);

CREATE TABLE RealtorExperience (

YearsOfExperience	INTEGER PRIMARY KEY,
CommissionPercentage	NUMBER);

(We are assuming that as you get more YearsOfExperience, your CommissionPercentage increases)

```
CREATE TABLE Property (  
    Unit          VARCHAR,  
    Street        VARCHAR,  
    City          VARCHAR,  
    Province      VARCHAR,  
    PostalCode    CHAR(6),  
    Sqft          INTEGER,  
    Bedrooms      INTEGER,  
    PRIMARY KEY (Unit, Street, PostalCode));
```

```
CREATE TABLE PropertyValue (  
    Sqft          INTEGER,  
    Bedrooms      INTEGER,  
    Price         INTEGER,  
    PRIMARY KEY (Sqft, Bedrooms));
```

```
CREATE TABLE Apartment (  
    Unit          VARCHAR,  
    Street        VARCHAR,  
    PostalCode    CHAR(6),  
    FloorLevel    INTEGER,  
    Stories        INTEGER,  
    ElevatorCount INTEGER,  
    PRIMARY KEY (Unit, Street, PostalCode),  
    FOREIGN KEY (Unit, Street, PostalCode) REFERENCES Property);
```

```
CREATE TABLE Townhome (  
    Unit          VARCHAR,  
    Street        VARCHAR,  
    PostalCode    CHAR(6) ,  
    AttachedHomes INTEGER,  
    NumberOfFloors INTEGER,  
    PRIMARY KEY (Unit, Street, PostalCode),  
    FOREIGN KEY (Unit, Street, PostalCode) REFERENCES Property);
```

```
CREATE TABLE Contract (  
    ContractID    INTEGER PRIMARY KEY,  
    DateSigned    DATE);
```

```
CREATE TABLE Payment (  
    ContractID          INTEGER,  
    PaymentNumber       INTEGER,  
    Amount              NUMBER,  
    Date                DATE,  
    PRIMARY KEY (ContractID, PaymentNumber),  
    FOREIGN KEY (ContractID) REFERENCES Contract(ContractID), ON DELETE CASCADE);
```

```
CREATE TABLE MaintenanceStaff (  
    Email               VARCHAR,  
    Name                VARCHAR,  
    Speciality          VARCHAR,  
    PhoneNumber INTEGER);
```

INSERT Statements

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES  
( 'hspecter@gmail.com', 'Harvey Specter', '6045555294', '10');
```

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES  
( 'mross@gmail.com', 'Mike Ross', '6045551234', '5');
```

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES  
( 'llitt@gmail.com', 'Louis Litt', '6045555678', '7');
```

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES  
( 'jpearson@gmail.com', 'Jessica Pearson', '6045559876', '9');
```

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES ( 'rzane@gmail.com',  
'Rachel Zane', '6045553456', '3');
```

```
INSERT INTO Landlord (Email, Name, PhoneNumber, NumProperties) VALUES  
( 'dpaulsen@gmail.com', 'Donna Paulsen', '6045557890', '6');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'jake@bosa.com', 'Jake Peralta', '7785550924');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'amy@bosa.com', 'Amy Santiago', '7785551234');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'terry@bosa.com', 'Terry Jeffords', '7785555678');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'rosa@bosa.com', 'Rosa Diaz', '7785559876');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'raymond@bosa.com', 'Raymond Holt', '7785553456');
```

```
INSERT INTO PropertyManager (Email, Name, PhoneNumber) VALUES  
( 'gina@bosa.com', 'Gina Linetti', '7785557890');
```

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('robin@gmail.com', 'Robin Scherbatsky', '6045550130', '01-MAR-2022', '01-MAR-2024', '3044');

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('barney@gmail.com', 'Barney Stinson', '6045552468', '01-APR-2021', '01-APR-2024', '3045');

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('lily@gmail.com', 'Lily Aldrin', '6045558642', '01-MAY-2020', '01-MAY-2025', '3046');

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('marshall@gmail.com', 'Marshall Eriksen', '6045557310', '01-JAN-2023', '01-NOV-2024', '3047');

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('ted@gmail.com', 'Ted Mosby', '6045559175', '01-JUL-2022', '01-DEC-2023', '3048');

INSERT INTO Tenant (Email, Name, PhoneNumber, StartDate, EndDate, ContractID) VALUES ('tracy@gmail.com', 'Tracy McConnell', '6045556089', '01-AUG-2022', '01-AUG-2028', '3049');

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-MAR-2022', '01-MAR-2024', '24')

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-APR-2022', '01-APR-2024', '24')

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-JUL-2022', '01-DEC-2023', '18')

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-MAR-2020', '01-MAR-2024', '48')

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-MAR-2023', '01-MAR-2028', '60')

INSERT INTO LeaseLength (StartDate, EndDate, DurationMonths) VALUES ('01-JAN-2023', '01-JAN-2030', '84')

```
INSERT INTO Realtor (Email, Name, PhoneNumber, YearsOfExperience) VALUES  
(‘walterwhite@bosa.com’, ‘Walter White’, ‘112223334’, ‘1');
```

```
INSERT INTO Realtor (Email, Name, PhoneNumber, YearsOfExperience) VALUES  
(‘gusfring@bosa.com’, ‘Gus Fring’, ‘1122233354’, ‘15');
```

```
INSERT INTO Realtor (Email, Name, PhoneNumber, YearsOfExperience) VALUES  
(‘mikeehrmantraut@bosa.com’, ‘Mike Ehrmantraut’, ‘1142273364’, ‘14');
```

```
INSERT INTO Realtor (Email, Name, PhoneNumber, YearsOfExperience) VALUES  
(‘jessepinkman@bosa.com’, ‘Jesse Pinkman’, ‘116223555’, ‘6');
```

```
INSERT INTO Realtor (Email, Name, PhoneNumber, YearsOfExperience) VALUES  
(‘skylerwhite@bosa.com’, ‘Skyler White’, ‘112828834’, ‘2');
```

```
INSERT INTO RealtorExperience(YearsOfExperience, CommissionPercentage) VALUES  
(‘2’, ‘0.02’)
```

```
INSERT INTO RealtorExperience(YearsOfExperience, CommissionPercentage) VALUES  
(‘15’, ‘0.25’)
```

```
INSERT INTO RealtorExperience(YearsOfExperience, CommissionPercentage) VALUES  
(‘14’, ‘0.22’)
```

```
INSERT INTO RealtorExperience(YearsOfExperience, CommissionPercentage) VALUES  
(‘6’, ‘0.08’)
```

```
INSERT INTO RealtorExperience(YearsOfExperience, CommissionPercentage) VALUES  
(‘1’, ‘0.01’)
```

INSERT INTO Property (Unit, Street, City, Province, PostalCode, Sqft, Bedrooms) VALUES ('101', '1408 Fir St', 'Vancouver', 'BC', 'V5P9F5', '1000', '2');

INSERT INTO Property (Unit, Street, City, Province, PostalCode, Sqft, Bedrooms) VALUES ('202', '123 Main St', 'Vancouver', 'BC', 'V6H2X2', '800', '3');

INSERT INTO Property (Unit, Street, City, Province, PostalCode, Sqft, Bedrooms) VALUES ('203', '789 Elm St', 'Vancouver', 'BC', 'V7R1Z1', '1200', '2');

INSERT INTO Property (Unit, Street, City, Province, PostalCode, Sqft, Bedrooms) VALUES ('104', '456 Oak St', 'Vancouver', 'BC', 'V6E3Y5', '700', '1');

INSERT INTO Property (Unit, Street, City, Province, PostalCode, Sqft, Bedrooms) VALUES ('205', '987 Maple St', 'Vancouver', 'BC', 'V5N6W8', '900', '2');

INSERT INTO PropertyValue (Sqft, Bedrooms, Price) VALUES ('1000', '2', '2000000');

INSERT INTO PropertyValue (Sqft, Bedrooms, Price) VALUES ('3300', '3', '1500000');

INSERT INTO PropertyValue (Sqft, Bedrooms, Price) VALUES ('1200', '2', '1800000');

INSERT INTO PropertyValue (Sqft, Bedrooms, Price) VALUES ('700', '1', '900000');

INSERT INTO PropertyValue (Sqft, Bedrooms, Price) VALUES ('900', '2', '1200000');

INSERT INTO Apartment (Unit, Street, PostalCode, FloorLevel, Stories, ElevatorCount) VALUES ('121', '6597 Maclean Rd', 'V9M2J7', '1', '20', '4');

INSERT INTO Apartment (Unit, Street, PostalCode, FloorLevel, Stories, ElevatorCount) VALUES ('305', '1234 Elm Street', 'V6J2J9', '3', '4', '1');

INSERT INTO Apartment (Unit, Street, PostalCode, FloorLevel, Stories, ElevatorCount) VALUES ('402', '456 Oak Avenue', 'V9M2J3', '4', '12', '3');

INSERT INTO Apartment (Unit, Street, PostalCode, FloorLevel, Stories, ElevatorCount) VALUES ('500', '789 Pine Road', 'V7K2L7', '5', '6', '2');

INSERT INTO Apartment (Unit, Street, PostalCode, FloorLevel, Stories, ElevatorCount) VALUES ('250', '1010 Maple Lane', 'V9Y5P4', '2', '8', '1');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors) VALUES ('101', '1408 Fir St', 'V5P9F5', '3', '3');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors)VALUES ('202', '123 Main St', 'V6H2X2', '4', '2');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors) VALUES ('203', '789 Elm St', 'V7R1Z1', '2', '4');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors) VALUES ('104', '456 Oak St', 'V6E3Y5', '1', '3');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors) VALUES ('205', '987 Maple St', 'V5N6W8', '3', '2');

INSERT INTO Townhome (Unit, Street, PostalCode, AttachedHomes, NumberOfFloors) VALUES ('206', '321 Pine St', 'V7K8Q3', '2', '4');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('15000', '01-JAN-2023');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('16000', '01-JAN-2022');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('17000', '15-MAR-2022');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('18000', '05-MAY-2022');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('19000', '20-JAN-2022');

INSERT INTO Contract (ContractID, DateSigned) VALUES ('20000', '10-AUG-2022');

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(15000, 5000, 2750.00, 01-OCT-2023);

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(16000, 5001, 3000.00, 15-OCT-2023);

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(17000, 5002, 3250.50, 15-NOV-2023);

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(18000, 5003, 2800.75, 01-NOV-2023);

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(19000, 5004, 2900.25, 15-DEC-2023);

INSERT INTO Payment (ContractID, PaymentNumber, Amount, Date) VALUES
(20000, 5005, 3100.00, 01-JAN-2024);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(plumbing@bosa.com, John Smith, Plumbing, 2365550101);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(electrician@bosa.com, Alice Johnson, Electrician, 2365550543);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(hvac@bosa.com, Robert Davis, HVAC, 2365555436);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(carpenter@bosa.com, Emily Turner, Carpentry, 2365559999);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(painter@bosa.com, Michael Clark, Painting, 2365554903);

INSERT INTO MaintenanceStaff (Email, Name, Speciality, PhoneNumber) VALUES
(locksmith@bosa.com, Sarah White, Locksmith, 2365559042);