

CPSC 304 Project Cover Page

Milestone #: 2

Date: 21st of October, 2022

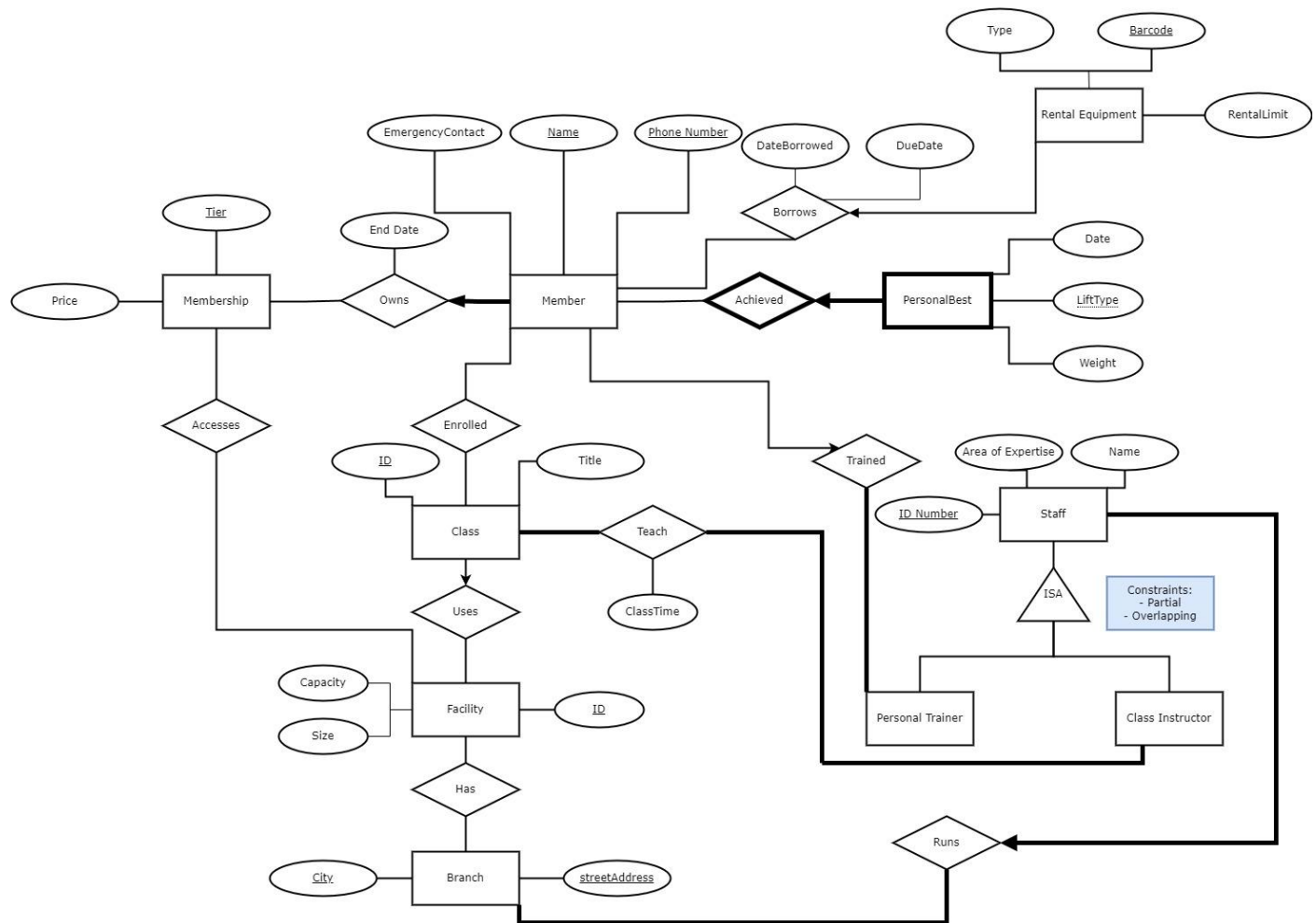
Group Number: 46

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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

ER Diagram for Task 3



Changes Made Since Milestone 1:

- Added *Capacity* and *Size* attributes to *Facility* to add in functional dependencies where the left hand side is not a key and initially have relations not in BCNF or 3NF to decompose.
 - Resulting functional dependencies added:
 - $Size \rightarrow Capacity$
- Added *DueDate*, *RentalLimit*, and *DateBorrowed* to *RentalEquipment* to add in functional dependencies where the left hand side is not a key and initially have relations not in BCNF or 3NF to decompose.
 - RentalLimit* represents the maximum amount of time a piece of *RentalEquipment* can be rented for. It is used to determine *DueDate* from *DateBorrowed*.
 - Resulting new functional dependency:
 - $RentalLimit, DateBorrowed \rightarrow DueDate$
- Renamed *Has*, the relationship between *Facility* and *Branch*, to *LocatedIn*, so the name provides more information.

Task 3: Deriving Schema from our ER Diagram

StaffRuns(AreaOfExpertise: CHAR(30), Name: CHAR(40), IDNumber: INTEGER, **BranchCity:** CHAR(40), **BranchStreetAddress:** CHAR(60))

- Candidate Keys: IDNumber

Personal Trainer(IDNumber: INTEGER)

- Candidate Keys: IDNumber

Class Instructor(IDNumber: INTEGER)

- Candidate Keys: IDNumber

LocatedIn(**FacilityID:** CHAR(10), **BranchCity:** CHAR(40), **BranchStreetAddress:** CHAR(60))

- Candidate Keys: FacilityID + BranchCity + BranchStreetAddress

Branch(City: CHAR(40), StreetAddress: CHAR(60))

- Candidate Keys: City + StreetAddress

Member(Name: CHAR(40), PhoneNumber: CHAR(10), Emergency Contact: CHAR(10),

MembershipTier: CHAR(15), **PersonalTrainerId:** INTEGER, EndDate: DATE)

- Candidate Key: Name, Phone Number
- MembershipTier must be not null to include the constraint

Membership(Tier: CHAR(15), Price: CHAR(10))

- Candidate Key: Tier

PersonalBest(**MemberName:** CHAR(40), **MemberPhone:** CHAR(10), Date: DATE, LiftType: CHAR(15), Weight: INTEGER)

- Candidate Key: Member Name, Phone Number, Lift Type
- MembershipName and PhoneNumber must be not null to satis. the constraint

Accesses(**MembershipTier:** CHAR(15), **FacilityID:** CHAR(10))

- CandidateKey: MembershipTier, FacilityID

Class(ID: INTEGER, Title: CHAR(40), **FacilityID:** CHAR(10))

- Candidate Key: ID

Enrolled(**MemberName:** CHAR(40), **MemberPhone:** CHAR(10), **CourseID:** INTEGER)

- Candidate Key: Member Name, Member Phone, Course ID

BorrowsRentalEquipment(Barcode: INTEGER, Type: CHAR(15), **MemberName:** CHAR(40), **MemberPhone:** CHAR(10), RentalLimit: INTEGER, DateBorrowed: DATE, DueDate: DATE)

- Candidate Key: Barcode

Facility(IDNumber: INTEGER, Capacity: INTEGER, Size: CHAR(10))

- Candidate Key: ID Number

Teach(**ClassID:** INTEGER, **ClassInstructorID:** INTEGER, ClassTime: CHAR(11))

- Candidate Key: ClassID, ClassInstructorID

Task 4: Functional Dependencies

StaffRuns:

- IDNumber -> Name
- IDNumber -> AreaOfExpertise
- IDNumber -> BranchCity
- IDNumber -> BranchStreetAddress

PersonalTrainer:

- IDNumber -> IDNumber

ClassInstructor:

- IDNumber -> IDNumber

LocatedIn:

- FacilityID, BranchCity, BranchStreetAddress -> FacilityID, BranchCity, BranchStreetAddress

Branch:

- City, StreetAddress -> City, StreetAddress

Member:

- Name, PhoneNumber -> Emergency Contact
- Name, PhoneNumber -> MembershipTier
- Name, PhoneNumber -> PersonalTrainerID
- Name, PhoneNumber -> EndDate

Membership:

- Tier -> Price

PersonalBest:

- MemberName, MemberPhone, LiftType -> Date
- MemberName, MemberPhone, LiftType -> Weight

Accesses:

- MembershipTier, FacilityID -> MembershipTier
- MembershipTier, FacilityID -> FacilityID

Class

- ID -> Title
- ID -> FacilityID

Enrolled:

- MemberName, MemberPhone, ClassID -> MemberName, MemberPhone, ClassID

BorrowsRentalEquipment:

- Barcode -> MemberName, MemberPhone
- Barcode -> Type
- Barcode -> RentalLimit
- Barcode -> DueDate
- Barcode -> DateBorrowed
- DateBorrowed, RentalLimit -> DueDate

Facility:

- IDNumber -> IDNumber
- IDNumber -> Size
- IDNumber -> Capacity

- Size \rightarrow Capacity

Teach:

- ClassID, ClassInstructorID \rightarrow ClassTime

Task 5: Normalization

Normalization 1:

Facility(IDNumber, Size Capacity)

Minimal key is IDNumber

FDs:

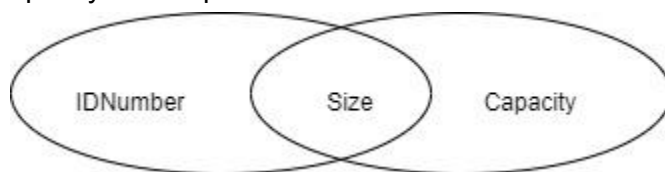
1. IDNumber \rightarrow Size
2. IDNumber \rightarrow Capacity
3. Size \rightarrow Capacity

Closures:

1. {IDNumber}⁺ = {IDNumber, Size, Capacity}
2. {Size}⁺ = {Size, Capacity}

Size \rightarrow Capacity violates BCNF since Size is not a superkey (and also violates 3NF as Capacity is not part of a minimal key)

Split by Decomposition



We get:

Facility(IDNumber, **Size**)

FacilitySize(Size, Capacity)

Normalization 2:

BorrowsRentalEquipment(Barcode, Type, **MemberName**, **MemberPhone**, RentalLimit, DateBorrowed, DueDate)

Minimal Key: Barcode

FDs:

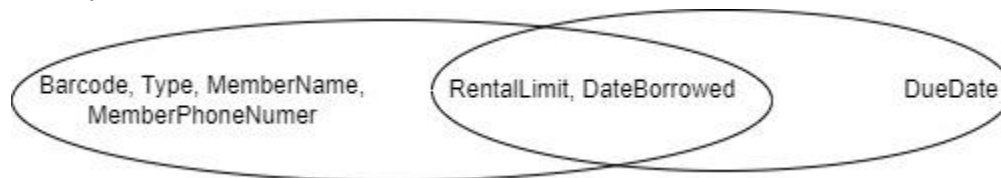
1. Barcode \rightarrow Type
2. Barcode \rightarrow MemberName
3. Barcode \rightarrow MemberPhone
4. Barcode \rightarrow RentalLimit
5. Barcode \rightarrow DateBorrowed
6. Barcode \rightarrow DueDate
7. RentalLimit, DateBorrowed \rightarrow DueDate

Closures:

1. {Barcode}⁺ = {Barcode, Type, MemberName, MemberPhone, RentalLimit, DateBorrowed, DueDate}
2. {RentalLimit, DateBorrowed}⁺ = {RentalLimit, DateBorrowed, DueDate}

FD 7 violates BCNF since RentalLimit and DateBorrowed are not a superkey and also violate 3NF as DueDate is not part of a minimal key.

Split by decomposition



We get:

BorrowsRentalEquipment(Barcode, Type, **MemberName**, **MemberPhone**, **RentalLimit**, **DateBorrowed**)

RentalEquipmentDue(RentalLimit, DateBorrowed, DueDate)

Now they are all in BCNF.

Final List of tables:

StaffRuns(AreaOfExpertise: CHAR(30), Name: CHAR(40), IDNumber: INTEGER, **BranchCity**: CHAR(40), **BranchStreetAddress**: CHAR(60))

- Candidate Keys: IDNumber

Personal Trainer(IDNumber: INTEGER)

- Candidate Keys: IDNumber

Class Instructor(IDNumber: INTEGER)

- Candidate Keys: IDNumber

LocatedIn(**FacilityID**: CHAR(10), **BranchCity**: CHAR(40), **BranchStreetAddress**: CHAR(60))

- Candidate Keys: FacilityID + BranchCity + BranchStreetAddress

Branch(City: CHAR(40), StreetAddress: CHAR(60))

- Candidate Keys: City + StreetAddress

Member(Name: CHAR(40), PhoneNumber: CHAR(10), Emergency Contact: CHAR(10), **MembershipTier**: CHAR(15), **PersonalTrainerId**: INTEGER, EndDate: DATE)

- Candidate Key: Name, Phone Number
- MembershipTier must be not null to include the constraint

Membership(Tier: CHAR(15), Price: CHAR(10))

- Candidate Key: Tier

PersonalBest(**MemberName**: CHAR(40), **MemberPhone**: CHAR(10), Date: DATE, LiftType: CHAR(15), Weight: INTEGER)

- Candidate Key: Member Name, Phone Number, Lift Type
- MembershipName and PhoneNumber must be not null to satis. the constraint

Accesses(**MembershipTier**: CHAR(15), **FacilityID**: CHAR(10))

- CandidateKey: MembershipTier, FacilityID

Class(ID: INTEGER, Title: CHAR(40), **FacilityID**: CHAR(10))

- Candidate Key: ID

Enrolled(**MemberName**: CHAR(40), **MemberPhone**: CHAR(10), **CourseID**: INTEGER)

- Candidate Key: Member Name, Member Phone, Course ID

BorrowsRentalEquipment(Barcode: INTEGER, Type: CHAR(15), **MemberName: CHAR(40)**, **MemberPhone: CHAR(10)**, **RentalLimit: INTEGER**, **DateBorrowed: DATE**)

- Candidate Key: Barcode, Member Name, Member Phone, RentalLimit, DateBorrowed

RentalEquipmentDue(RentalLimit: INTEGER, DateBorrowed: DATE, DueDate: DATE)

- Candidate Key: RentalLimit, DateBorrowed

Facility(IDNumber: INTEGER, **Size: CHAR(10)**)

- Candidate Key: ID Number

FacilitySize(Size: CHAR(10), Capacity: INTEGER)

- Candidate Key: Size

Teach(**ClassID: INTEGER**, ClassInstructorID: INTEGER, ClassTime: CHAR(11))

- Candidate Key: ClassID, ClassInstructorID

Task 6: Table Creation

```
CREATE TABLE StaffRuns(  
    AreaOfExpertise CHAR(30),  
    Name CHAR(40) NOT NULL,  
    IDNumber INTEGER PRIMARY KEY,  
    BranchCity CHAR(40) NOT NULL,  
    BranchStreetAddress CHAR(60) NOT NULL,  
    FOREIGN KEY(BranchCity, BranchStreetAddress),  
        REFERENCES Branch(City, StreetAddress)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE PersonalTrainer(  
    IDNumber INTEGER PRIMARY KEY,  
    FOREIGN KEY(IDNumber),  
        REFERENCES StaffRuns(IDNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE ClassInstructor(  
    IDNumber INTEGER PRIMARY KEY,  
    FOREIGN KEY(IDNumber),  
        REFERENCES StaffRuns(IDNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE LocatedIn(  
    FacilityID CHAR(10),  
    BranchCity CHAR(40),  
    BranchStreetAddress(60),  
    PRIMARY KEY(FacilityID, BranchCity, BranchStreetAddress),  
    FOREIGN KEY(FacilityID) REFERENCES Facility(IDNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY(BranchCity, BranchStreetAddress) REFERENCES Branch(City,  
        StreetAddress)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```



```
CREATE TABLE Branch(  
    City CHAR(40),  
    StreetAddress CHAR(60),  
    PRIMARY KEY (City, StreetAddress)  
);
```

```
CREATE TABLE Enrolled(  
    MemberName CHAR(40),  
    MemberPhone CHAR(10),  
    ClassID INTEGER,  
    PRIMARY KEY (MemberName, MemberPhone, ClassID),  
    FOREIGN KEY (MemberName, MemberPhone) REFERENCES Member(Name,  
PhoneNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (ClassID) REFERENCES Class(ID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE BorrowsRentalEquipment(  
    Barcode INTEGER PRIMARY KEY,  
    Type CHAR(15) NOT NULL,  
    MemberName CHAR(40),  
    MemberPhone CHAR(10),  
    RentalLimit INTEGER,  
    DateBorrowed DATE,  
    FOREIGN KEY (MemberName, MemberPhone) REFERENCES Member(Name,  
PhoneNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (RentalLimit, DateBorrowed) REFERENCES  
RentalEquipmentDue(RentalLimit, DateBorrowed)  
        ON DELETE SET NULL  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE RentalEquipmentDue(  
    RentalLimit INTEGER,  
    DateBorrowed DATE,  
    DueDate DATE NOT NULL,  
    PRIMARY KEY (RentalLimit, DateBorrowed)  
);
```

```
CREATE TABLE Facility(  
    ID CHAR(10) PRIMARY KEY,  
    Size CHAR(10),  
    FOREIGN KEY (Size) REFERENCES FacilitySize(Size)  
        ON DELETE SET DEFAULT  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE FacilitySize(  
    Size CHAR(10) PRIMARY KEY,  
    Capacity INTEGER NOT NULL  
);
```

```
CREATE TABLE Teach(  
    ClassID INTEGER,  
    ClassInstructorID INTEGER,  
    ClassTime CHAR(11),  
    PRIMARY KEY (ClassID, ClassInstructorID),  
    FOREIGN KEY (ClassID) REFERENCES Class(ID)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (ClassInstructorID) REFERENCES ClassInstructor(IDNumber)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE Member(  
    Name CHAR(40),  
    PhoneNumber CHAR(10),  
    EmergencyContact CHAR(10) NOT NULL,  
    EndDate DATE NOT NULL,  
    MembershipTier CHAR(15) NOT NULL,  
    PersonalTrainerID INTEGER,  
    PRIMARY KEY(Name, PhoneNumber),  
    FOREIGN KEY (MembershipTier) REFERENCES Membership(Tier)  
        ON DELETE CASCADE  
        ON UPDATE CASCADE,  
    FOREIGN KEY (PersonalTrainerID) REFERENCES PersonalTrainer(IDNumber)  
        ON DELETE SET NULL  
        ON UPDATE CASCADE  
);
```

```
CREATE TABLE Membership(  
    Tier CHAR(15),
```

```

        Price CHAR(10) NOT NULL,
        PRIMARY KEY (Tier)
    );

CREATE TABLE PersonalBest(
    MemberName CHAR(40),
    MemberPhone CHAR(10),
    Date DATE,
    LiftType CHAR(15),
    Weight INTEGER NOT NULL,
    PRIMARY KEY (MemberName, MemberPhone, LiftType),
    FOREIGN KEY (MemberName, MemberPhone) REFERENCES Member(Name,
PhoneNumber)
        ON DELETE CASCADE
        ON UPDATE CASCADE
    );

CREATE TABLE Accesses(
    MembershipTier CHAR(15),
    FacilityID CHAR(10),
    PRIMARY KEY (MembershipTier, FacilityID),
    FOREIGN KEY (MembershipTier) REFERENCES Membership(Tier) ON DELETE
CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (FacilityID) REFERENCES Facility (ID)
        ON DELETE CASCADE
        ON UPDATE CASCADE
    );

CREATE TABLE Class (
    ID INTEGER PRIMARY KEY,
    Title CHAR(40) NOT NULL,
    FacilityID CHAR(10),
    FOREIGN KEY (FacilityID) REFERENCES Facility (ID)
        ON DELETE CASCADE
        ON UPDATE CASCADE
    );

```

Task 7: Table Population

```

INSERT INTO StaffRuns          VALUES("Yoga", "Andy Smythe", "193756", "Burnaby",
"1673 Macdonald St.");
INSERT INTO StaffRuns          VALUES("Kickboxing", "Sam Proud", "739038",
"Vancouver", "13 Main St.");

```

INSERT INTO StaffRuns "Coquitlam", "4474 Maple Ave.");	VALUES("Reception", "Sasha Williams", "178033",
INSERT INTO StaffRuns "Vancouver", "13 Main St.");	VALUES("Kickboxing", "Michelle Quaker", "777977",
INSERT INTO StaffRuns "Vancouver", "994 Marine Dr.");	VALUES("Olympic Weightlifting", "Charlie Poth", "872536",
INSERT INTO StaffRuns "Toronto", "924 Joust St.");	VALUES("Bodybuilding", "Arnold Schwartz", "125367",
INSERT INTO StaffRuns Joust St.");	VALUES("Pilates", "Jordan Polo", "045732", "Toronto", "924
INSERT INTO StaffRuns "Vancouver", "994 Marine Dr.");	VALUES("Bodybuilding", "Kiana Keith", "019253",
INSERT INTO StaffRuns "Coquitlam", "4474 Maple Ave.");	VALUES("Water Aerobics", "Vanna Blanche", "555678",
INSERT INTO StaffRuns "13 Main St.");	VALUES("Yoga", "Frank Rivers", "006370", "Vancouver",
INSERT INTO Personal Trainer	VALUES("872536");
INSERT INTO Personal Trainer	VALUES("739038");
INSERT INTO Personal Trainer	VALUES("125367");
INSERT INTO Personal Trainer	VALUES("045732");
INSERT INTO Personal Trainer	VALUES("006370");
INSERT INTO Class Instructor	VALUES("193756");
INSERT INTO Class Instructor	VALUES("739038");
INSERT INTO Class Instructor	VALUES("777977");
INSERT INTO Class Instructor	VALUES("019253");
INSERT INTO Class Instructor	VALUES("555678");
INSERT INTO LocatedIn	VALUES("YOGSTD", "Burnaby", "1673 Macdonald St.");
INSERT INTO LocatedIn	VALUES("POOL", "Coquitlam", "4474 Maple Ave.");
INSERT INTO LocatedIn	VALUES("BOXRNG", "Vancouver", "13 Main St.");
INSERT INTO LocatedIn	VALUES("GYM", "Vancouver", "994 Marine Dr.");
INSERT INTO LocatedIn	VALUES("BOXRNG", "Toronto", "924 Joust St.");
INSERT INTO Branch	VALUES("Burnaby", "1673 Macdonald St.");
INSERT INTO Branch	VALUES("Coquitlam", "4474 Maple Ave.");
INSERT INTO Branch	VALUES("Vancouver", "13 Main St.");
INSERT INTO Branch	VALUES("Vancouver", "994 Marine Dr.");
INSERT INTO Branch	VALUES("Toronto", "924 Joust St.");

INSERT INTO Member
"872536", "2022-12-12");
INSERT INTO Member
"739038", "2022-12-12");
INSERT INTO Member
"125367", "2022-12-12");
INSERT INTO Member
"045732", "2022-12-12");
INSERT INTO Member
"006370", "2022-12-12");

INSERT INTO Membership
INSERT INTO Membership
INSERT INTO Membership
INSERT INTO Membership
INSERT INTO Membership

INSERT INTO PersonalBest
Press", 405);
INSERT INTO PersonalBest
INSERT INTO PersonalBest
Lift", 455);
INSERT INTO PersonalBest
Press", 420);
INSERT INTO PersonalBest
Squat", 205);

INSERT INTO Accesses
INSERT INTO Accesses
INSERT INTO Accesses
INSERT INTO Accesses
INSERT INTO Accesses

INSERT INTO Class
INSERT INTO Class
INSERT INTO Class
INSERT INTO Class
INSERT INTO Class

INSERT INTO Enrolled
INSERT INTO Enrolled
INSERT INTO Enrolled
INSERT INTO Enrolled
INSERT INTO Enrolled

VALUES("Terminator", "+1234555", "+9000955", "Gold",
VALUES("Bucky", "+12355", "+000000", "Bronze",
VALUES("Captain Canada", "+2352", "+5551555", "Silver",
VALUES("Iron Dog", "+54252424", "+655555", "Platinum",
VALUES("Guy Fiery", "+5152424", "+6969696", "Basic",

VALUES("Gold", "129.99");
VALUES("Bronze", "59.99");
VALUES("Silver", "79.99");
VALUES("Platinum", "200");
VALUES("Basic", "39.99");

VALUES("Terminator", "+1234555", "2022-12-12", "Bench
VALUES("Bucky", "+12355", "2022-02-12", "Squat", 405);
VALUES("Captain Canada", "+2352", "2021-12-12", "Dead
VALUES("Iron Dog", "+54252424", "2020-12-12", "Bench
VALUES("Guy Fiery", "+5152424", "2022-12-10", "Front

VALUES("Gold", "YOGSTD");
VALUES("Silver", "POOL");
VALUES("Platinum", "BOXRNG");
VALUES("Bronze", "GYM");
VALUES("Basic", "GYM");

VALUES(1, "Yoga for Seniors", "YOGSTD");
VALUES(2, "Kickboxing for Beginners", "BOXRNG");
VALUES(3, "Mua Thai", "BOXRNG");
VALUES(4, "Body Building II", "GYM");
VALUES(5, "Water Aerobics I", "POOL");

VALUES("Terminator", "+1234555", 1);
VALUES("Terminator", "+1234555", 5);
VALUES("Bucky", "+12355", 2);
VALUES("Captain Canada", "+2352", 4);
VALUES("Iron Dog", "+54252424", 5);

INSERT INTO BorrowsRentalEquipment	VALUES(11111, "30lbs dumbbells", "Iron Dog",
" +54252424", 5, "2022-09-12");	
INSERT INTO BorrowsRentalEquipment	VALUES(11112, "jump rope", "Terminator",
" +1234555", 14, "2022-10-15");	
INSERT INTO BorrowsRentalEquipment	VALUES(11113, "boxing gloves", "Bucky", "+12355",
5, "2022-10-15");	
INSERT INTO BorrowsRentalEquipment	VALUES(11114, "yoga mat", "Captain Canada",
" +2352", 7, "2022-10-15");	
INSERT INTO BorrowsRentalEquipment	VALUES(11115, "boxing gloves", "Guy Fiery",
" +5152424", 5, "2022-09-03");	

INSERT INTO RentalEquipmentDue VALUES(5, "2022-09-12", "2022-09-17");
 INSERT INTO RentalEquipmentDue VALUES(14, "2022-10-15", "2022-10-29");
 INSERT INTO RentalEquipmentDue VALUES(5, "2022-10-15", "2022-10-20");
 INSERT INTO RentalEquipmentDue VALUES(7, "2022-09-03", "2022-09-10");
 INSERT INTO RentalEquipmentDue VALUES(5, "2022-09-13", "2022-09-18");

INSERT INTO Facility	VALUES("POOL", "mid-large");
INSERT INTO Facility	VALUES("YOGSTD", "small");
INSERT INTO Facility	VALUES("BOXRNG", "medium");
INSERT INTO Facility	VALUES("GYM", "large");
INSERT INTO Facility	VALUES("RUNTRK", "small-mid");

INSERT INTO FacilitySize	VALUES("small", 20);
INSERT INTO FacilitySize	VALUES("medium", 100);
INSERT INTO FacilitySize	VALUES("large", 300);
INSERT INTO FacilitySize	VALUES("mid-large", 200);
INSERT INTO FacilitySize	VALUES("small-mid", 50);

INSERT INTO TEACH	VALUES(1, "193756", "2:30-3:30");
INSERT INTO TEACH	VALUES(2, "739038", "11:00-12:30");
INSERT INTO TEACH	VALUES(2, "777977", "11:00-12:30");
INSERT INTO TEACH	VALUES(3, "777977", "9:00-10:00");
INSERT INTO TEACH	VALUES(4, "019253", "9:00-10:00");
INSERT INTO TEACH	VALUES(5, "555678", "14:00-16:00");