# **CPSC 304 Project Cover Page**

Milestone #: 2 Date: Feb 24, 2023

Group Number: 1 (project mentor: Suki)

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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

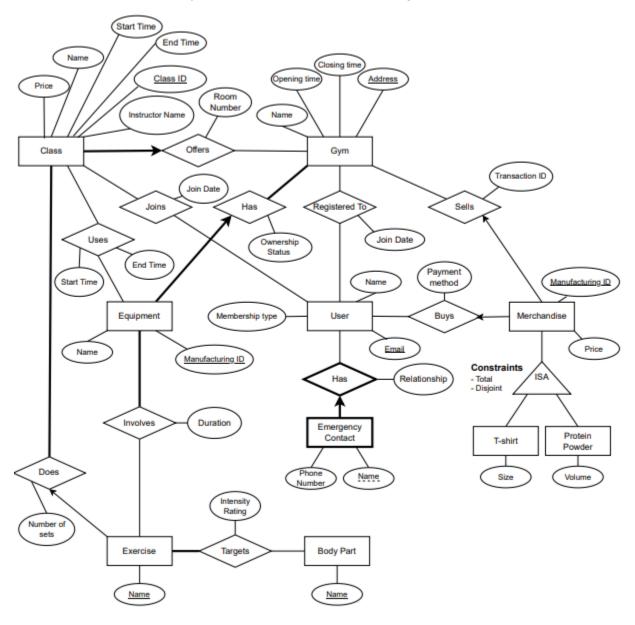
# 2. Project Summary

This application is a management tool for gym managers to keep track of gym logistics and users. Gym managers can query information like a list of users, equipment information such as exercises that use it, and the body parts that those exercises target.

# 3. ER Diagram

# Changes

- "Uses" in the Exercise-Uses-Equipment relation has been renamed to "Involves", to avoid having 2 "Uses" tables.
- User "Visits" Gym has been changed to User "registeredTo" Gym as it makes more sense to track this, as opposed to tracking every user's Visit.
  - o Consequently, "Check-in-time" has been changed to "Join date"



# 4. Schema

#### Combine:

- Class+Offers
- Exercise+Does
- Equipment+Has
- Emergency Contact+Has
- Merchandise+Sells

Note: <u>Primary Keys</u> are underlined, **Foreign Keys** are bolded.

```
Offers Class(
     Price:
                           integer,
     Name:
                           string,
     Start_time:
                           TIME,
     End time:
                           TIME,
     Class ID:
                           string,
     Instructor_name:
                           string,
     Room number:
                           integer,
     Gym Address:
                           string
)
Does Exercise(
     Number of sets: integer,
     Exercise Name: string,
     Class ID: string
)
Has Equipment (
     Equipment name:
                              string,
     Manufacturing ID:
                              string,
     Ownership status:
                              string,
     Gym Address:
                               string
)
Has_EmergencyContact(
     Email: string,
     Phone number: integer,
     Name:
                  string,
     Relationship: string
)
```

```
Sells Merchandise(
     Gym Address:
                        string,
     Transaction ID:
                        string,
     Manufacturing ID: string,
     Price:
                        number
)
User(
     Membership type: string,
     Email:
                       string,
     Name:
                       string
)
Gym(
     Name:
                    string,
     Opening time: TIME,
     Closing time: TIME,
     Address:
                    string,
)
Involves(
     Duration:
                                   string,
     Exercise Name:
                                   string,
     Equipment Manufacturing ID: string
BodyPart(
     Name: string
)
Targets(
     Exercise_Name:
                         string,
     BodyPart_name:
                        string,
     Intensity rating: integer
)
Uses(
     <u>Class ID</u>:
                            string,
     Manufacturing_ID:
                            string,
     Start_time:
                            TIME,
     End time:
                            TIME
)
```

```
Joins(
    Join_date: TIME,
    <u>User Email</u>:
                  string,
    Class_ID:
                   string
)
Buys (
    Payment method: string,
    Merch Manufacturing ID: string,
    User Email:
                         string
)
T-shirt(
    Manufacturing_ID: string,
    Size:
                     string
)
ProteinPowder(
    Manufacturing ID: string,
    Volume:
                     number
)
RegisteredTo(
    Join date: TIME,
    <u>User Email</u>:
                       string,
    Gym Address:
                    string
)
```

# 5. Functional Dependencies

### Offers\_class:

- Class\_ID → Price, Name, Start\_time, End\_time, Instructor\_name, Room\_number, Gym\_address
- Start\_time, End\_time, Instructor\_name → Room\_number

#### Does Exercise:

• Exercise\_name → Number\_of\_sets, Class\_ID

### Has\_Equipment:

Manufacturing\_ID → Equipment\_name, Ownership\_status, Gym\_address

#### Has EmergencyContact:

• Email, Name → Relationship, Phone\_number

#### Sells Merchandise:

Manufacturing\_ID → Transaction\_ID, Gym\_address, Price

#### User:

Email → Name, Membership\_type

#### Gym:

Address → Name, Opening\_time, Closing\_time

#### Involves:

Exercise\_name, Equipment\_manufacturing\_ID → Duration

### BodyPart: (TRIVIAL)

#### Targets:

Exercise\_name, BodyPart\_name → Intensity\_rating

#### Uses:

Class\_ID, Manufacturing\_ID → Start\_time, End\_time

#### Joins:

Class\_ID, User\_email → Join\_date

#### Buys (DONE):

Merchandise, User\_email → Payment\_method

### RegisteredTo (DONE):

User\_email, Gym\_address → Join\_date

# 6. Normalization

#### Definition 1:

BCNF: All determinants that determine a subset of the attributes must determine all attributes.

6a) Offers Class

#### Scratch work:

```
Offers_Class(Price: integer, Name: string, Start_time: TIME, End_time: TIME, Class_ID: string, Instructor_name: string, Room number: integer, Gym Address: string)
```

#### FDs:

- Class\_ID → Price, Name, Start\_time, End\_time, Instructor\_name, Room\_number, Gym\_address
- Start\_time, End\_time, Instructor\_name → Room\_number

Since { Start\_time, End\_time, Instructor\_name } determines only a subset of the attributes, this is not in BCNF.

Decompose on "Start\_time, End\_time, Instructor\_name → Room\_number":

- Offers\_Class\_1(Price: integer, Name: string, Start\_time:
   TIME, End\_time: TIME, Class\_ID: string, Instructor\_name:
   string, Gym Address: string)
- Offers\_Class\_2(<u>Start\_time</u>: TIME, <u>End\_time</u>: TIME, <u>Instructor\_name</u>: string, Room\_number: integer)

Now tables are in BCNF as per Definition 1.

### List of Tables:

- Offers\_Class\_1(Price: integer, Name: string, Start\_time: TIME, End\_time: TIME, Class\_ID: string, Instructor\_name: string, Gym Address: string)
- Offers\_Class\_2(<u>Start\_time</u>: TIME, <u>End\_time</u>: TIME, <u>Instructor\_name</u>: string, Room\_number: integer)

### **Primary Keys:**

- Offers Class 1: Class ID
- Offers Class 2: Start time, End time, Instructor name

Candidate Keys: N/A (outside of primary keys )

#### Foreign Keys:

- Offers Class 1:
  - **Gym Address** (references Gym)
  - Start time, End time, Instructor name (ref. Offers Class 2)

## 6b) Does Exercise

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

Does\_Exercise(Number\_of\_sets: integer, <u>Exercise\_Name</u>: string,Class\_ID: string)

#### Primary Keys:

• Exercise Name

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• Class\_ID (references Offers\_Class\_1)

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• Has\_Equipment(Equipment\_name: string, <a href="Manufacturing\_ID">Manufacturing\_ID</a>: string, <a href="Ownership\_status">Ownership\_status</a>: string, <a href="Gym\_Address">Gym\_Address</a>: string)

### Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

### Foreign Keys:

• **Gym Address** (references Gym)

# 6d) Has\_EmergencyContact

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

 Has\_EmergencyContact(<u>Email</u>: string, Phone\_number: integer, <u>Name</u>: string, Relationship: string)

### Primary Keys:

• Email, Name

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• **Email** (references User)

## 6e) Sells Merchandise

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• Sells\_Merchandise(**Gym\_Address**: string, Transaction\_ID: string, <u>Manufacturing\_ID</u>: string, Price: number)

### Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• **Gym Address** (references Gym)

6f) User

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• Sells\_Merchandise(**Gym\_Address**: string, Transaction\_ID: string, Manufacturing ID: string, Price: number)

### Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• Gym Address (references Gym)

6g) Gym

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

```
Gym(Name: string, Opening_time: TIME, Closing_time: TIME, Address:
string)
```

### Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

Foreign Keys: N/A

#### 6h) Involves

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

Involves (Duration: string, <u>Exercise Name</u>: string,
 <u>Equipment Manufacturing ID</u>: string)

### Primary Keys:

• Equipment Manufacturing ID, Exercise Name

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

- Exercise Name (references Does Exercise)
- **Equipment Manufacturing\_ID** (references Has\_Equipment)

### 6i) BodyPart

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• BodyPart(Name: string)

#### **Primary Keys:**

• Name

Candidate Keys: N/A outside of primary keys

Foreign Keys: N/A

### 6j) Targets

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

Targets (<u>Exercise\_Name</u>: string, <u>BodyPart\_name</u>: string,
 Intensity\_rating: integer)

### **Primary Keys:**

• Exercise Name, BodyPart name

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

- Exercise Name (references Does Exercise)
- BodyPart name (references BodyPart)

#### 6k) Uses

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• Uses(<u>Class\_ID</u>: string, <u>Manufacturing\_ID</u>: string, Start\_time: TIME, End time: TIME)

### Primary Keys:

• Manufacturing ID, Class ID

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

- Manufacturing\_ID (references Has\_Equipment)
- Class\_ID (references Offers\_Class\_1)

# 6l) Joins

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• Joins (Join date: TIME, <u>User Email</u>: string, <u>Class ID</u>: string)

#### Primary Keys:

• User Email, Class ID

Candidate Keys: N/A outside of primary keys Foreign Keys:

- <u>User Email</u> (references User)
- Class ID (references Offers Class 1)

6m) Buys

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### **List of Tables:**

Buys (Payment\_method: string, <u>Merch\_Manufacturing\_ID</u>: string,
 User Email: string)

#### **Primary Keys:**

• <u>User Email</u>, <u>Class\_ID</u>

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

- <u>User Email</u> (references User)
- <u>Merch Manufacturing ID</u> (references Sells Merchandise)

#### 6n) T-shirt

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• T-shirt (Manufacturing ID: string, Size: string)

# Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• Manufacturing ID (references Sells Merchandise)

## 6o) ProteinPowder

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

• ProteinPowder (Manufacturing ID: string, Volume: number)

#### Primary Keys:

• Manufacturing ID

Candidate Keys: N/A outside of primary keys

#### Foreign Keys:

• <u>Manufacturing ID</u> (references Sells Merchandise)

### 6p) RegisteredTo

This is already in BCNF since all attributes that determine other attributes determine all of them.

#### List of Tables:

 RegisteredTo(Join\_date: TIME, <u>User\_Email</u>: string, <u>Gym\_Address</u>: string)

### **Primary Keys:**

• <u>User Email</u>, <u>Gym Address</u>

Candidate Keys: N/A outside of primary keys Foreign Keys:

- <u>User\_Email</u> (references User)
- **Gym Address** (references Gym)

# 7. Create Table Statements

7a) Offers\_Class1 & Offers\_Class\_2

```
CREATE TABLE Offers Class \overline{2} (
 Start time TIME(0),
 End time TIME(0),
 Instructor name varchar (127),
 Room number int,
 PRIMARY KEY (Start time, End time, Instructor name)
CREATE TABLE Offers Class 1 (
 Class ID varchar (32),
 Price int,
 Name varchar(127),
 Start time TIME(0) NOT NULL,
 End time TIME(0) NOT NULL,
 Instructor name varchar(127) NOT NULL,
 Gym Address varchar(127) NOT NULL,
 PRIMARY KEY (Class ID),
 FOREIGN KEY (Gym Address) references Gym (address),
 FOREIGN KEY (Start time, End time, Instructor name)
    references Offers Class 2(Start time, End time, Instructor name)
```

# 7b) Does\_Exercise

```
CREATE TABLE Does_Exercise (
   Number_of_sets int,
   Exercise_Name varchar(127),
   Class_ID varchar(127),
   PRIMARY KEY (Exercise_Name),
   FOREIGN KEY (Class_ID) references Offers_Class_1(Class_ID)
);
```

# 7c) Has Equipment

```
CREATE TABLE Has_Equipment (
   Equipment_name varchar(127),
   Manufacturing_ID varchar(127),
   Ownership_status varchar(127),
   Gym_Address varchar(127) NOT NULL,
   PRIMARY KEY (Manufacturing_ID),
   FOREIGN KEY (Gym_Address) references Gym(Address)
);
```

# 7d) Has\_EmergencyContact

```
CREATE TABLE Has_EmergencyContact(
   Email varchar(127),
   Phone_number bigint,
   Name varchar(127),
   Relationship varchar(127),
   PRIMARY KEY (Name, Email),
   FOREIGN KEY (Email) references User(Email)
);
```

# 7e) Sells\_Merchandise

```
CREATE TABLE Sells_Merchandise(
   Gym_Address varchar(127),
   Transaction_ID varchar(127),
   Manufacturing_ID varchar(127),
   Price int,
   PRIMARY KEY (Manufacturing_ID),
   FOREIGN KEY (Gym_Address) references Gym(Address)
);
```

# 7f) User

```
CREATE TABLE User (
Name varchar(127),
Email varchar(127),
MembershipType varchar(31),
PRIMARY KEY (Email)
);
```

# 7g) Gym

```
CREATE TABLE Gym (
Name varchar(127),
Opening_time time(0),
Closing_time time(0),
Address varchar(127),
PRIMARY KEY (Address)
);
```

# 7h) Involves

```
CREATE TABLE Involves(
   Duration varchar(127),
   Exercise_Name varchar(127),
   Equipment_Manufacturing_ID varchar(127),
   PRIMARY KEY (Exercise_Name, Equipment_Manufacturing_ID),
   FOREIGN KEY (Exercise_Name) references Does_Exercise(Exercise_Name),
   FOREIGN KEY (Equipment_Manufacturing_ID)
        references Has_Equipment(Manufacturing_ID)
);
```

# 7i) BodyPart

```
CREATE TABLE BodyPart (
Name varchar(127),
PRIMARY KEY (Name)
);
```

# 7j) Targets

```
CREATE TABLE Targets(
   Exercise_Name varchar(127),
   BodyPart_name varchar(127),
   Intensity_rating int,
   PRIMARY KEY (Exercise_Name, BodyPart_name),
   FOREIGN KEY (Exercise_Name) references Does_Exercise(Exercise_Name),
   FOREIGN KEY (BodyPart_name) references BodyPart(Name)
);
```

### 7k) Uses

```
CREATE TABLE Uses(
    Class_ID varchar(127),
    Manufacturing_ID varchar(127),
    Start_time TIME(0),
    End_time TIME(0),
    PRIMARY KEY (Manufacturing_ID, Class_ID),
    FOREIGN KEY (Manufacturing_ID)
        references Has_Equipment(Manufacturing_ID),
    FOREIGN KEY (Class_ID) references Offers_Class_1(Class_ID)
);
```

# 7I) Joins

```
CREATE TABLE Joins(
   Join_date DATE,
   User_Email varchar(127),
   Class_ID varchar(127),
   PRIMARY KEY (User_Email, Class_ID),
   FOREIGN KEY (User_Email) references User(Email),
   FOREIGN KEY (Class_ID) references Offers_Class_1(Class_ID)
);
```

# 7m) Buys

```
CREATE TABLE Buys (
   Payment_method varchar(127),
   Merch_Manufacturing_ID varchar(127),
   User_Email varchar(127),
   PRIMARY KEY (Merch_Manufacturing_ID),
   FOREIGN KEY (Merch_Manufacturing_ID)
        REFERENCES Sells_Merchandise(Manufacturing_ID),
   FOREIGN KEY (User_Email) REFERENCES User(Email)
);
```

### 7n) TShirt

```
CREATE TABLE TShirt (

Manufacturing_ID varchar(127),

Size varchar(127),

PRIMARY KEY (Manufacturing_ID)
```

# 7o) ProteinPowder

```
CREATE TABLE ProteinPowder (

Manufacturing_ID varchar(127),

Volume int,

PRIMARY KEY (Manufacturing_ID)
);
```

# 7p) RegisteredTo

```
CREATE TABLE RegisteredTo(
   Join_date TIME(0),
   User_Email varchar(127),
   Gym_Address varchar(127),
   PRIMARY KEY (User_Email, Gym_Address),
   FOREIGN KEY (User_Email) references User(Email),
   FOREIGN KEY (Gym_Address) references Gym(Address)
);
```

# 8. Insert Statements

# 8a) Offers\_Class1 & Offers\_Class\_2

```
INSERT INTO Offers Class 2 VALUES
  ('5:15', '6:15', 'Andy Liang', 306),
  ('14:00', '15:00', 'Jerry Shao', 021),
  ('5:15', '6:15', 'Jerry Shao', 306),
  ('5:15', '6:30', 'Andy Liang', NULL),
  ('17:00', '17:01', 'Noreen Chan', 013);
INSERT INTO Offers Class 1 VALUES
  ('1', 35, '1-on-1 Training', '5:15', '6:15', 'Andy Liang', '1234
Anystreet Rd, Richmond, BC'),
  ('2', 25, 'Cardio', '14:00', '15:00', 'Jerry Shao', '3746 Maine St,
Vancouver, BC'),
  ('3', 85, 'Pilates', '5:15', '6:15', 'Jerry Shao', '8686 Burns Rd,
Burnaby, BC'),
  ('4', 95, 'Yoga', '5:15', '6:30', 'Andy Liang', '1234 Anystreet Rd,
Richmond, BC'),
  ('5', 0, 'Cycling', '17:00', '17:01', 'Noreen Chan', '32567 Steveston
Hwy, Richmond, BC');
```

# 8b) Does Exercise

```
INSERT INTO Does_Exercise VALUES
   (5, 'Bench Press', '1'),
   (35, 'Push-ups', '2'),
   (35, 'Lunges', '3'),
   (10, 'Squats', '4'),
   (2, 'Cycling', '1');
```

# 8c) Has Equipment

```
INSERT INTO Has_Equipment VALUES
  ('Bench', '342', 'Rent', '1234 Anystreet Rd, Richmond, BC'),
  ('Bench', '343', 'Own', '1234 Anystreet Rd, Richmond, BC'),
  ('Bench', '000', NULL, '8686 Burns Rd, Burnaby, BC'),
  (NULL, '824', 'Own', '1234 Anystreet Rd, Richmond, BC'),
  ('Elliptical', '4327', 'Rent', '32567 Steveston Hwy, Richmond, BC');
```

# 8d) Has EmergencyContact

```
INSERT INTO Has_EmergencyContact VALUES
   ('rng@gmail.com', 7784949396, 'Jessica Wong', 'Colleague'),
   ('rng@gmail.com', 7780183849, 'Mrs. Ng', 'Wife'),
   ('jeffclune@gmail.com', 6045729296, 'Andreas Lehrmann', 'Colleague'),
   ('norm@ubc.ca', 7784949396, 'Jessica Wong', 'Friend'),
   ('jjim@ubc.ca', 6045828272, 'Jessica Wong', NULL);
```

# 8e) Sells Merchandise

```
INSERT INTO Sells_Merchandise VALUES
  ('1234 Anystreet Rd, Richmond, BC', 'T83824', 'M1', 13),
  ('32567 Steveston Hwy, Richmond, BC', 'T83824', 'M2', 13),
  ('1234 Trout Place, Coquitlam, BC', 'T3', 'M3', NULL),
  ('3746 Maine St, Vancouver, BC', 'T5', 'M4', 13),
  ('1234 Anystreet Rd, Richmond, BC', 'T6', 'M5', 13);
```

### 8f) User

```
INSERT INTO User (Name, Email, MembershipType) VALUES
  ('Raymond Ng', 'rng@gmail.com', 'Basic'),
   ('Jessica Wong', 'jwong@ubc.ca', 'Basic'),
   ('Jeff Clune', 'jeffclune@gmail.com', 'Pro'),
   (NULL, 'jjim@ubc.ca', 'Basic'),
   ('Norm Hutchinson', 'norm@ubc.ca', 'Pro');
```

# 8g) Gym

```
INSERT INTO Gym VALUES
  ('Anytime Fitness', NULL, NULL, '1234 Anystreet Rd, Richmond, BC'),
    ('Golds', '3:30', '13:30', '3746 Maine St, Vancouver, BC'),
    ('24-Hour Fitness', '9:30', '23:00', '8686 Burns Rd, Burnaby, BC'),
    ('Trout Lake', '12:00', '23:00', '1234 Trout Place, Coquitlam, BC'),
    (NULL, '00:30', '9:30', '32567 Steveston Hwy, Richmond, BC');
```

# 8h) Involves

```
INSERT INTO Involves VALUES
  ('1 hour', 'Cycling', '4327'),
   ('10 mins', 'Bench Press', '343'),
  (NULL, 'Bench Press', '342'),
   ('15 mins', 'Squats', '824'),
   ('10 mins', 'Lunges', '824');
```

## 8i) BodyPart

```
INSERT INTO BodyPart VALUES
   ('Chest'),
   ('Arms'),
   ('Legs'),
   ('Back'),
   ('Shoulders');
```

# 8j) Targets

```
INSERT INTO Targets VALUES
  ('Push-ups', 'Arms', 2),
  ('Push-ups', 'Chest', 2),
  ('Squats', 'Legs', 2),
  ('Bench Press', 'Chest', 2),
  ('Cycling', 'Legs', 2);
```

#### 8k) Uses

```
INSERT INTO Uses VALUES

('1', '824', '14:00', '15:00'),

('1', '342', '14:30', '15:00'),

('3', '000', '11:00', '11:15'),

('4', '000', '11:15', '12:00'),

('5', '4327', '17:00', '17:01');
```

### 8I) Joins

```
INSERT INTO Joins VALUES
  ('2023-03-01', 'norm@ubc.ca', '1'),
   ('2022-03-11', 'rng@gmail.com', '4'),
   ('2021-05-09', 'norm@ubc.ca', '3'),
   ('2023-04-01', 'jjim@ubc.ca', '3'),
   ('2023-03-01', 'jeffclune@gmail.com', '2');
```

### 8m) Buys

```
INSERT INTO Buys VALUES
  ('Cash', 'M1', 'rng@gmail.com'),
  ('Credit Card', 'M2', 'jwong@ubc.ca'),
  ('Cash', 'M3', 'jeffclune@gmail.com'),
  ('Debit Card', 'M4', 'jjim@ubc.ca'),
```

```
('Cash', 'M5', 'norm@ubc.ca');
```

# 8n) TShirt

```
INSERT INTO TShirt VALUES
('1', 'XS'),
('2', 'S'),
('3', 'M'),
('4', 'L'),
('5', 'XL')
```

# 8o) ProteinPowder

```
INSERT INTO ProteinPowder (Manufacturing_ID, Volume) VALUES
('1', 500),
('2', 300),
('3', 450),
('4', 450),
('5', 450);
```

# 8p) RegisteredTo

```
INSERT INTO RegisteredTo VALUES
  ('13:00', 'norm@ubc.ca', '1234 Anystreet Rd, Richmond, BC'),
  ('16:00', 'norm@ubc.ca', '8686 Burns Rd, Burnaby, BC'),
  ('10:00', 'rng@gmail.com', '1234 Anystreet Rd, Richmond, BC'),
  ('13:00', 'jjim@ubc.ca', '32567 Steveston Hwy, Richmond, BC'),
  ('21:00', 'jwong@ubc.ca', '1234 Anystreet Rd, Richmond, BC');
```